

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur, under UGC Act, 1956)

SELF STUDY REPORT

Submitted for Accreditation

To

**National Assessment and
Accreditation Council, Bangalore**



Hingna Road, Wanadongri, Nagpur- 441110, Maharashtra

Website: www.ycce.edu, Email: principal@ycce.edu

Phone: +91-7104-242620, 242919, 329249, 329250, 242623

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STEERING COMMITTEE

(Constituted to coordinate and prepare Self Study Report of college to be submitted to NAAC)

S N	Name	Designation
1	Dr. U. P. Waghe Principal	Chairman
2	Dr. P. K. Dakhole Registrar	Member
3	Dr. A. M. Pande Director (R&D)	Member
4	Dr. S. D. Bhole Dean (Acad. Matters)	Member
5	Dr. P.T. Karule Controller of Examinations	Member
6	Prof. A. R. Bhagat Patil Dean (Planning & Development)	Member Coordinator





Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

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E-mail : principal@ycce.edu, info@ycce.edu

No. : YCCE/Adm./2015-16/2125

Date : 29.01.2016

To,

The Director,
National Assessment and Accreditation Council,
Bangalore,
India

Dear Sir/Mam,

Subject : **Submission of Self Study Report (SSR) for NAAC Accreditation-regd.
Yeshwantrao Chavan College of Engineering, Nagpur
Track ID- MHCOGN16359**

Ref: Your mail dated 28/01/2016

Thanks for accepting our LOI. Yeshwantrao Chavan College of Engineering, Nagpur has uploaded Self Study Report (SSR) for Cycle 1 on college website www.ycce.edu

The link for accessing the Self Study Report of the college is-
http://www.ycce.edu/SSR_YCCE_NAGPUR.pdf

As communicated in your mail we are submitting **5 Hard Copies** and **01 Soft Copy** of Self Study Report (SSR) together with **A&A fees demand draft (DD No.560239** for Three Lacs Forty Three Thousand Five Hundred Only dated 04/12/2015 of HDFC Bank)

In this regard, I request you to please let us know the date of visit of NAAC peer team to our college.

Thanking you,

Yours faithfully,

Dr. U. P. Waghe
Principal



PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

CONTENTS

Criteria	Particulars	Page No
	Preface	
Part A	Executive Summary and SWOC Analysis	1-17
Part B	Profile of the College	18-51
Part C	Criterion-wise Analytical Report	
Criterion I:	Curricular Aspects	52-78
1.1	Curriculum Planning and Implementation	52-59
1.2	Academic Flexibility	60-70
1.3	Curriculum Enrichment	71-74
1.4	Feedback	75-78
Criterion II:	Teaching-Learning and Evaluation	79-134
2.1	Student Enrolment and Profile	79-84
2.2	Catering to Student Diversity	85-88
2.3	Teaching-Learning Process	89-107
2.4	Teacher Quality	108-118
2.5	Evaluation Process and Reforms	119-128
2.6	Student Performance and Learning Outcomes	129-134
Criterion: III	Research, Consultancy and Extension	135-210
3.1	Promotion of Research	135-157
3.2	Resource Mobilization for Research	158-165
3.3	Research Facilities	166-173
3.4	Research Publications and Awards	174-189
3.5	Consultancy	190-197
3.6	Extension Activities and Institutional Social Responsibilities	198-202
3.7	Collaboration	203-210
Criterion: IV	Infrastructure and Learning Resources	211-244
4.1	Physical Facilities	211-220
4.2	Library as a Learning Resource	221-233
4.3	IT Infrastructure	234-241
4.4	Maintenance of Campus Facilities	242-244

Criterion: V	Student Support and Progression	245-289
5.1	Student Monitoring and Support	245-268
5.2	Student Support and Progression	269-274
5.3	Student Participation and Activities	275-289
Criterion: VI	Governance, Leadership and Management	290-369
6.1	Institutional Vision and Leadership	290-326
6.2	Strategy Development and Deployment	327-346
6.3	Faculty Empowerment Strategies	347-352
6.4	Financial Management and Resource Mobilization	353-366
6.5	Internal Quality Assurance Systems	367-369
Criterion: VII	Innovations and Best Practices	370-385
7.1	Environment Consciousness	370-374
7.2	Innovations	375-379
7.3	Best Practices	380-385
Part D	Evaluation Report of the Department	386-589
	Department of Civil Engineering	386-414
	Department of Mechanical Engineering	415-435
	Department of Electrical Engineering	436-454
	Department of Electronics Engineering	455-479
	Department of Electronics and Telecommunication Engineering	480-503
	Department of Computer Technology	504-527
	Department of Information Technology	528-554
	Department of Applied Mathematics and Humanities	555-569
	Department of Applied Physics	570-579
	Department of Applied Chemistry	580-589
Part E	Annexure	590-596
	Annexure I- LOI of College	590-594
	Annexure II- Certificate of Compliance	595
	Annexure III- Declaration by Principal	596

PREFACE

Yeshwantrao Chavan College of Engineering (YCCE), Nagpur, established in 1984 by Nagar Yuwak Sikshan Sanstha, a registered society, is a self financed autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur and approved by the All India Council for Technical Education, New Delhi, Director of Technical Education, Maharashtra State. YCCE has become the first self financed engineering college to acquire "Autonomous Status" in Central India, from academic session 2010-11.

YCCE is located at hilltop encompassing a sprawling area of 14 acres, with actual built up area of 37040.72 Sq.m. The college was started with an aim to impart quality technical education to the students aspiring for career in engineering and technology. It was started with the UG Programs, B.E. in Production Engineering, Construction Engineering (Civil Engineering) and Electronics Engineering each with intake of 60. The college has seen gradual increase in intake, addition of new UG and PG programmes in engineering. Presently, college offers Nine (09) UG engineering programmes, Twelve (12) PG engineering programmes. All the departments are approved centers for higher learning and research by RTM Nagpur University to offer doctoral degree (Ph.D.).

Since its inception college authorities have been taking sustained efforts for its all-round development in the technical education. All UG engineering programmes of the college are accredited and re-accredited since 2003 by National Board of Accreditation, New Delhi. Presently Three UG Engineering programmes Computer Technology, Electronics Engineering and Information Technology are accredited for two years (w.e.f. 04/02/2014) by National Board of Accreditation, New Delhi.

The qualified team of faculty with rich experience in teaching, research, and industry is the main stay of the college. It is committed for continuous improvement of all academic processes, strive to provide environment conducive to the pursuit of knowledge, adhering to the ethical standards and professional integrity to enhance the satisfaction level of all our stakeholders.

With a support and constant encouragement from the management, YCCE has continuously seen a rise in popularity amongst the aspiring students and their parents. It has become a preferred destination of the students due to quality education, matching infrastructure, robust teaching-learning practices as well as holistic growth and good employability of the students. YCCE promotes all-round development of the students by providing various opportunities to showcase their academic, technical, cultural, and sports talents. There are various student clubs like photography, music etc. that help the students to pursue their interests. The overall result expected from the graduates is to become responsible citizens and lifelong learning professionals.

The college is guided by Academic Advisory Board consisting of eminent academicians from prestigious technical institutes in India and abroad. Various statutory bodies such as Board of Management, Academic Council, Board of Studies, and Finance Committee have been constituted.

The interactions with the academicians and working professionals from industries on continuous basis at different fora ensure the industry compliant curriculum.

YCCE has established the quality culture in teaching learning and administrative processes through the sustenance measures, which resulted into inclusion in TEQIP Phase-I, NBA Accreditations since 2003 and grant of various research projects.

YCCE received ISTE National Award 2014 for Best Private Engineering College in recognition of the Best Overall Performance in the field of Technical Education in the country in 44th ISTE National Annual Convention.

It is an immense pleasure to submit Self Study Report of our college to National Assessment and Accreditation Council (NAAC), Bangalore for first cycle of accreditation. The report is an outcome of collective efforts of all faculty and staff. It contains true and genuine information on the various parameters. This report is prepared with honesty, sincerity and dedication as per the guidelines laid down by NAAC.

We now look forward to evaluation by Peer Team of NAAC to provide us a gauge to measure our strengths and weaknesses and guide us on the path to progress in the near future.

PART - A

EXECUTIVE SUMMARY
&
SWOC ANALYSIS

A. Executive Summary

Yeshwantrao Chavan College of Engineering (YCCE) was established in 1984 by Nagar Yuwak Shikshan Sanstha (NYSS) and continues to achieve its goal since, 30 years. NYSS was established with a single minded purpose of developing a network of educational institutes for providing quality education in various disciplines of study in Vidarbha, a relatively less developed region in our country. Understanding the need for outcome based quality education with values, the college prepares students to become leaders in their chosen professions.

The college has exceeded the scope of its vision and become the yardstick for other institutions to match up to. This strength has been developed from outstanding students, dedicated faculty & supporting staff genuinely committed to students. The fundamentals of academic brilliance, cultural activities, sporting excellence and spiritual evolution in students are simultaneously progressing under the guidance of entrusted facilitators and excellent infrastructure.

Being in the city of Nagpur, YCCE has immense opportunities of growth as many multinational companies like TCS, Infosys, Tech-Mahindra, Boeing International, GlenMark, Lupin etc. choosing to set-up base in the city as well as large infrastructure development and growing employment opportunities.

YCCE has become the first self-financed engineering college to acquire "Autonomous Status" in Central India. The college has implemented autonomy in progressive manner from academic session 2010-11 in all the degree programmes. The curriculum is designed in consultation with the experts from academia and industry. The academic and evaluation processes have been reformed and made students centric and transparent. The grievance redressal mechanism ensures quick disposal of issues.

YCCE received ISTE National Award 2014 for Best Private Engineering College in recognition of the Best Overall Performance in the field of Technical Education in the country in 44th ISTE National Annual Convention



ISTE Best Private Engineering College Award 2014

Criterion Wise Executive Summary

Criterion I: Curricular Aspects:

The institute has implemented autonomy in progressive manner from academic session 2010-11. Various statutory bodies such as Board of Management (BoM), Academic Council (AC), Board of Studies (BoS), and Finance Committee have been constituted and industry need-based curriculum has been introduced. As per the requirements of outcome based education PEOs (Programme Educational Objectives) and POs (Programme Outcomes) are defined in consistent with the vision and mission of the college.

Board of Studies in various disciplines undertakes review of curriculum at regular interval with an active participation of industry representative, subject experts from academia like IITs, IISc, NIT's, Alumni and department faculty members. For development and restructuring of curricula the college has used the template given in the model curriculum prepared by AICTE and guidelines of UGC to frame the Scheme of Examination. The college is assisted in teaching-learning activities and placements by the leading industries. For example, Department of Computer Technology is offering industry aligned professional elective courses in association with Infosys, Pune (Business Intelligence & its applications) and Globallogic Pvt. Ltd. Nagpur (Mobile Operating Systems). The college gathers feedback and communication from the stake holders on curriculum. Incorporation of suggestions from the stakeholders in curriculum design have led to improvement in student's placement, technical, social activities and research which are the needs of regional and national development.

The college has well balanced core and elective courses in each program. Varieties of elective courses can be opted by the students of all UG and PG programmes according to their career goals.

The curriculum adopted by the college is credit based and all the programmes offered are in semester based system. There are no inter disciplinary programmes offered at present. The college does not provide either transfer / accumulation facility of credits in any programme for the students. While switching from University pattern to autonomous pattern the CGPA of such students shall be calculated as per the absolute grading system.

The college runs all the programmes on self-financing basis. There are no aided programmes in the college. The admissions to UG and PG programmes are done as per the directives of the State Government and /or the affiliating University.

The demands and expectations of the corporate sector regarding skill sets of students are taken care by offering special value added programmes such as GENNEXT, Talk in English (TiE), Campus Recruitment Training (CRT) programme etc. Apart from this, all the engineering departments

organize various value added courses as per requirements of their students. In last few years college has introduced new UG and PG programmes in emerging areas such as VLSI Design and Computer Science. All undergraduate and post graduate programmes underwent major revisions in 2010-11 when academic autonomy was introduced. The curriculum was revamped in 2013-14 and was applied to the batches admitted in 2014-15.

Criterion II: Teaching-Learning and Evaluation:

Admissions in UG and PG programmes are done as per the guidelines laid down by AICTE and Director of Technical Education, Government of Maharashtra. The college participates in the Centralized Admission Process of Government of Maharashtra. 80% of the seats of UG and PG programmes are filled in through this process. 20% seats of the UG and PG programmes are filled in by the college. The college is committed to provide scholarship to the intelligent, poor and needy students. The college has also adopted 'Tuition Fee Waiver Scheme' of AICTE for students belonging to economically weaker sections of the society. The college reviews the admission process every year and college authorities are taking every possible measure to make the admission process more and more user friendly.

Counseling sessions are conducted for different category students, details regarding schemes of Government for financial assistance, bank loan facility, Tuition Fee Waiver Scheme (TFWS) are explained to them.

The demand ratio for the various programmes offered by the college has continuously increased because of sustained efforts of college authorities to provide quality technical education, excellent academics, good governance, excellent infrastructure and good track record of placement.

An Induction program for newly admitted students in both UG and PG programmes is conducted at the start of the session to capture academic requirements of students. The identified issues are addressed at the departmental as well as college level through academic calendar, constituting Anti-Ragging Committee, Grievance Redressal Cell, and Sexual Harassment Redressal Committee etc.

Extra lectures are conducted for identified subjects which are difficult to the students. The students admitted directly to second year B.E. after diploma in engineering are taught in special classes after regular college teaching hours. Additional facilities such as Book Bank to the students belonging to scheduled castes, Summer Term for slow learners, with appropriate measures ensures an incremental academic growth of the students coming from these categories.

To enhance the employment opportunities a special summer course entitled Campus Recruitment Training is offered after VI Sem. BE.

Apart from the above programmes, each department conducts several Value Added Courses in Programme Specific Domains to bridge the gaps in academics and industries practices.

The College identifies the advanced learners who are exceptionally gifted in academics and are mentored by the departmental as well as institutional teams for excelling in extracurricular activities. The alumni of the institutions also mentor these students.

Academic calendar prepared by Dean (Academic Matters) outlines the session/ semester schedule, test schedule and examination schedule. Timetable in-charge of each department prepares the timetable as per the guidelines. The students are given the course handout by course teachers containing the Course objectives and outcomes, Syllabus of the course, Lecture schedule, Text books, Reference books and important URLs for the subject material, method for Teachers Assessment, Content beyond syllabus.

Apart from the classroom interactions, the other methods of learning experiences like, Moodle based departmental website, National Programme on Technology Enhanced Learning (NPTEL), the e-material developed by the college (DTEL), Mini and Major Project, Industrial visit, Field work/ Industrial Internship, Model presentation, Visiting Professor's interaction, Seminars/ workshops organized by departmental / institutional students' bodies, Technical competitions in and outside of the College etc. are provided to the students. The college has participated in a nationwide initiative by IIT, Mumbai to implement MOOCs plus flipped classroom concept in academic session 2015-16.

A mentoring system called as Teacher Guardian System under which every faculty member is assigned a group of students who counsels students regarding academic, personal and other problems faced by the student. A qualified counselor is appointed by the college to deal with the problems faced by the students in their general life which could jeopardize their academic progress.

The college considers student projects as mandatory in the learning process for all programmes. External institutions are associated with the college for student project work of UG and PG students in the final year.

Software is designed to collect the student feedback regarding the academic, attitude and discipline dimensions of the teaching-learning process. If the feedback indices are more than 80%, the faculty is given the appreciation letter. However, if it is less than 60%, the faculty is counseled individually at departmental and college level. The college does not normally face any problem in completing the curriculum due to the dedicated faculty members and their scrupulous planning as per the teaching plan. The college is

adopting the methods to continuously monitor, evaluate and report on the quality of teaching and teaching methods used by faculty.

In every academic institute faculty plays a major role in growth of the institute. The college has required number of qualified and competent teachers to handle all the courses for all departments. Presently there are 301 faculty members on roll against 301 sanctioned posts of faculty members. Out of these 30 are in Professors Grade, 45 in Associate Professor's Grade and rest are in Assistant Professor's Grade. Faculty members have been appointed in accordance with AICTE/UGC and RTM Nagpur University, Nagpur norms. Majority of appointed faculty members are from the state of Maharashtra.

The college extends its support in all aspects to improve the quality of the faculty. The faculty is encouraged to participate in training programmes /workshops / seminars / conferences /FDPs to update/ develop their skills. Majority of faculty members from each department have undergone staff development programmes during the last four years.

Looking at the vast expertise of the faculty members, they are frequently invited by other organizations as resource persons in conferences, workshops etc. More than 90% of faculty members published their research papers in reputed journals and conferences. The college regularly organizes academic development programmes for its faculty, leading to enrichment of teaching-learning process. The college has collaboration with leading global organizations such as TCS, IBM, Wipro, etc for providing training to faculty members in current areas.

The college has MoU with SVNIT, Surat, SEGi University Malaysia, Purdue University, Northern Illinois University, USA, Michigan State University USA, University of Massachusetts of Lowell USA, Lawrence University, USA, University of Hartford USA for faculty exchange and joint knowledge transfer programmes.

The evaluation process is made known to the stakeholders during the orientation programme by the Dean (Academic Matters), periodically; teachers and HoDs orient their wards regarding the same in the classes. In 2010-11 college obtained academic autonomous status, an independent evaluation system was evolved by college which have positively impacted the evaluation management system. The format of question paper is evolved such that the students will have to learn the complete course syllabus. For each course offered in the semester, five sets of question papers are set from both internal and external paper setters. The solution to the question paper and marking scheme is drawn and discussed before the evaluation process is carried out. Answer books are evaluated by subject experts from outside the institute and enhance the credibility of the evaluation process. The students are permitted to raise grievances about valuation of their answer books.

Each course is assessed for 100 marks with weightage of 40% for continuous assessment while 60% assessment is done at End Semester Examination (ESE). The marks are converted into the equivalent grades. The results are displayed on college website and notice boards.

Criterion III: Research, Consultancy and Extension:

In line with the mission and vision statements, the college is committed to promote R&D, involve all in the research and extension activities for betterment of profession and society. The college has made strategic efforts to nurture research culture among faculty members and students. The research cell is headed by Director (R&D), research culture is created through team efforts.

The college has two separate committees, one looks after the activities of approved centers of higher learning and research leading to doctoral degrees and other one creates awareness and submits funding proposals to various agencies. Policies of the college like incentives, financial assistance for attending conferences in India and Abroad, organization of in-house programmes, in-house funding for UG/PG projects and project based competitions have created the atmosphere for pursuing research.

During last five years the college has produced thirty doctorates and equal number have submitted thesis, enhancement of paper publication by faculty and student's thesis signifies the development in this regard. The college has identified thrust areas of research in each department, faculty members are focusing on the UG/PG projects in the thrust areas, where ever possible co-guides from reputed institutions and industries are invited to improve quality of projects.

To grasp the relevance of boundary less engineering, sustained efforts are made in inter-disciplinary projects, UG/PG projects of inter-disciplinary nature are offered by various departments during last four years. Industry based projects have been another important aspect of research culture development, total 134 UG/PG projects offered by various departments during last four years are collaborative in nature. The college arranges expert lectures of researchers of eminence based on the departmental needs and availability of experts.

The college has specific policy of visiting professor ship. Senior Professors from IITs are invited under this scheme; they spend two to three working days with faculty and students every year. Their interaction in past has laid the path for streamlining research by faculty and enhanced quality of research based UG and PG projects.

To understand technological developments in the country and abroad the college has organized eleven national / international conferences during last five years. Efforts of faculty members have resulted in getting grants of

over 1.30 Crores during last four years for developmental and research activities. 'SIEMENS Center of Excellence for Digital Manufacturing and Robotics' with grants from AICTE & Siemens India and 'Development of Neonatal Assessment Tool for Vital Sign Monitoring', a project in collaboration with Harvard University, USA & DMIMS Wardha are two prestigious R&D projects currently underway.

Patenting, which was overlooked earlier is now becoming priority area, eleven patent applications are filed recently, and many more are in pipeline.

All departments have created laboratory facilities for pursuing research and the college library is serving as the knowledge resource centre with very large number of reference books and journals. Faculty members are actively involved in organization of conferences in the college and other professional societies. Publications of faculty members is getting recognition as more and more papers are listed in international database and being published in journals with high impact factors. Over 150 scholars are pursuing research in the college with supervisors within and outside the college. Doctoral research review processes are helping in completion of research and checking malpractices. MoUs with 21 organisations and six universities have prompted overall development of the college, resulting in consultancies, projects, student's internships and placements. The MoUs have benefited the college in curricular development, research, extension services and faculty development. The Institute Industry Partnership Cell is also functioning in proper direction to develop linkages with industry and organization of programmes, the cell has received grant of Rs. 12.40 lakh for various activities and setting up office.

The college organizes many social activities like Blood Donation Camps, Anti-smoking Campaigns, I vote for better India Campaign, Swachchata Abhiyan on campus, Nirmalya (Flower and other Waste from Worship of God) Sankalan on the occasion of Ganapati Visarjan at prominent places in the city, traffic rules awareness programmes for the students in collaboration with RTO, Nagpur and Jan Aakrosh - an NGO and many more. WINGS - a society of students of the college is formed in 2013 which has given recognition to the initiatives and involvement of students and faculty members in all the above activities organised at college level on social responsibilities. SWAS – a society of students formed in 2014 to help needy farmers in drought hit Marathwada region and promotion of reading habits amongst young students. This has created a positive impact on the students to create “competent human resources for prosperity and wellbeing of industry, profession and society” in line with the mission statement.

Criterion IV: Infrastructure and Learning Resources

Starting journey in 1984 with a basic infrastructure, college gradually built up i) Basic Sciences and Engineering Block ii) Civil Engineering Block iii) Electrical Engineering & Computer Technology Block, iv) Mechanical Engineering Block v) Electronics Engineering Block vi) Information Technology Block, vii) Administrative Block with an overall built-up area of 37040.72 Sq.m.

In the recent past, new building is constructed to accommodate additional intake at First year level, Additional floor is constructed to accommodate increase in intake of UG Electrical Engineering Programme and Civil Engineering programme. The entire examination cell was restructured as per the specifications given by Controller of Examinations. All teaching departments are provided with HoD cabin, office rooms, cabins or cubicles for faculty, seminar rooms, wash rooms and separate rest rooms for girl students.

To facilitate proper and continuous power supply to the college campus, a 400 KVA transformer had been installed in the campus.

For outstation boys and girl students of the College excellent hostel facilities have been provided. The college has constructed boys' hostel with total accommodation for 220 students. The college has tied up for Girls hostel with Savitribai Fule Mahila Vastigruh exclusively for college students which houses around 100 students. Both boys' hostels as well as girls' hostel are equipped with mess, canteen and indoor/outdoor recreational facilities which include gymnasium facilities and yoga centre.

A dedicated lease line connectivity of 40 Mbps is available with college which is shared with Boys hostel. Wi-fi connectivity is made available at hostel premises for 24 hours.

First Aid boxes are available at each department. Medical practitioner and nursing staff is available on the campus, to take care of all regular checkups and minor ailments. In case of an emergency, Medical facility of Lata Mangeshkar Multi Specialty Hospital, which is located at 2 km., is also available. Annual Medical and Dental Check-up camp for both teaching and non-teaching staff are organised by the college.

The college has made available both indoor and outdoor sport facilities for students. Every Year college organizes annual social gathering 'YCCE FEST' wherein events based on cultural activities, quiz elocution and sports competitions are organized. Departmental Students' Associations, too, organize 'cultural events'. The college has its own music club, gymnasium.

The college library has rich collection of textbooks and reference books. The library has a collection of total 32994 titles, with 101520 volumes with a total cumulative investment of Rs.3,33,87,764/-. It has also subscribed for many national and international journals, e-journals and e-books.

It subscribes to 179 national journals and 2952 international journals, costing Rs.1,11,92,243/- It has a digital library also through which online material is made available to the staff and students. The college has the IEEE digital library subscription to promote research.

For meritorious students and students from socially deprived section of the society, library provides book bank facility. Library has developed e-resources centre with 44 computers for providing e-learning facility. Specialized services like Reprography, Inter Library Loan Service, OPAC, In-house/remote access to e-resources, INFLIBNET/IUC facilities are provided.

The college authorities always emphasizes on the use of standard tools and open source as well as proprietary software's. The college has adequate computing and learning resource facilities. It has 1833 desktops, 20 laptops, 160 printers, and 24 scanners. All required software's are also available. Entire campus is Wi-Fi enabled with the help of 25 indoor and 5 outdoor high end controller base CISCO access points. A Central Computer Centre (CCC) apart from departmental computer labs/centres is fully equipped with internet bandwidth of 40Mbps. All computers in every department are connected through LAN. Central Computer Centre manages and troubleshoots the campus network with the help of FLUKE Network Ether scope, a Network Analyzer. All the machines in the college are protected with Antivirus and security tools. Computer-Student ratio during practical hours is 1:1. Budgetary provisions are every year made for update, deployment and maintenance of IT infrastructure.

The college has been taking sustained efforts to bring out innovations in teaching learning methodologies. Innovative methods of teaching-learning and dissemination of information have gone beyond the syllabus to encourage healthy curiosity attitude and self study approach.

The college has established 'Maintenance Department' to look after the maintenance of entire physical infrastructure on the college campus. It is responsible for supervision of ongoing construction work, cleaning and maintenance works of entire college campus and also for bringing out improvement in the physical ambience of the college campus. The college has made available services of gardeners for development and maintenance of greenery on campus. To supervise the electrical maintenance of the campus college has appointed Electrical Maintenance Engineer.

Round the clock security is provided for entire college campus by availing the services of security guards. These services, too, are partially outsourced.

Criterion V: Student Support and Progression

Various programs are synchronized to take care of the curricular, co-curricular and extra-curricular aspects of education. Counseling the students is the regular practice that help faculty to build a rapport with the students. There is a Class Teacher system in place at first year level for student support. The faculty advisor system is operative from second year to final year at the respective departments. The academically brilliant students are mentored through a scheme called “Achievers’ Club”. Laptop scheme is implemented for topper students.

To support the academically weak students, extra classes are held. Summer Term Classes are also conducted during summer vacation for such students. Student Grievance Redressal Cell effectively functions on the campus. The college publishes prospectus and the handbook for First Year students. The Academic Regulations, Scheme of Examinations and syllabi are available on the college website.

The management of the college is very generous enough to provide scholarships/free ships to the merit and economically backward students. Based on the economic condition of the students, tuition fee waiver or concession in fees is permitted. A book bank facility is provided to SC/ST students as well as to topper students by the college library.

For personal enhancement and development of the students, the college provides ample opportunities for the students for showcasing their technical, cultural and sports talents through the various events. The college provides necessary guidance through department-wise Fora to enable the students to take up various competitive examinations like GRE, TOEFL and GATE etc.

The College has well equipped language laboratory which is of help to the students in improving their communication skills. The college also focuses on improving computer literacy among its students by arranging special lecture sessions to those students who are less exposed to computer usage and programming. MoU is signed with Infosys to conduct campus connect programme.

Students are encouraged to participate in competitions conducted within the campus and elsewhere. They are provided financial assistance to meet the expenses when they go for paper presentations and other academic related activities. Departments also arrange industrial tours and visits to the industries.

The weightage against a two credit course called extra-curricular activities is given for participation in the extra and co-curricular activities. Every engineering department publishes an annual magazine.

The dispensary is available on the campus to look after the health related issues of the students and staff. Every staff and student enrolled in the college has been insured under medical insurance scheme.

The International Relations Cell (IRC) exists in the college to cater to international study guidance and exposure to the students. The college has a full-fledged Training and Placement Department with well qualified and experienced, Director – Training & In-charge IIPC, Director – Placement, T&P Officer and the required supporting staff.

The college organises Entrepreneurship Awareness Camp (EAC) and many other programmes to promote the spirit of entrepreneurship among the students through Entrepreneurship Development Cell (EDC). The college has a registered Alumni Association chaired by a senior faculty. He, along with members of the association, coordinates various activities.

The college has a committee for addressing the issues related to sexual harassment. Anti Ragging Committee is in place which continuously monitors throughout the campus to prevent incidences of ragging.

Various stakeholders are participating in Statutory & Non-statutory committee of the college. There is significant involvement of Industry Personnel, Alumni, Faculty, and Employers in curriculum development through Board of Studies.

The college has established feedback system of collecting feedback from all the students. The online feedback is collected from the students twice in a semester. Besides, the feedback is sought from the parents, employers and graduating students.

Criterion VI: Governance, Leadership and Management:

The Chairman of the Nagar Yuwak Shikshan Sanstha, Hon'ble Shri. Dattaji R. Meghe has a desire to spread the fragrance of education amongst people belonging to all strata of community, particularly amongst the rural poor.

The Board of Management comprising members from the Management, AICTE, Industry, RTM Nagpur University and Maharashtra State Technical Education meets at least twice in an academic year. The college is guided by Academic Advisory Board consisting of eminent academicians from prestigious technical institutes in India and abroad.

Under autonomous status, college has constituted statutory academic bodies like 'Academic Council' and 'Board of Studies' to formulate and subsequently implement academic policies. The college has well qualified and experienced senior faculty members.

The college strives hard and ensures that all positions in its various statutory bodies are filled in accordance with the existing rules. The RTM

Nagpur University has nominated members on the statutory bodies like BoM, AC and BoS. The college authorities always encourage for participative management in the functioning of the college.

The college makes conscious efforts to build a healthy relationship with its stakeholders. The inputs and feed back about the functioning and various other aspects of the college is collected through a number of ways. The college leadership undertakes to understand the needs of the society through its interactions with University, AICTE and other statutory bodies.

The college believes in decentralization of administration and transparency of governance. The college authorities have created different Functional Head Post's for achieving proper and effective coordination with various day to day academic activities, administrative function, planning and development and to disseminate decision making powers. Independence is given to all heads of the departments in planning, organizing and implementing various activities of the departments in improving the efficiency of the institutional process.

Participative management involves Management, Principal, HoD, Faculty and Students. At each level active part is taken in planning and implementation of policy of the college.

The college strives hard in a planed manner through well defined perspective plan for achieving high standards of teaching, training and development of human resources resulting into overall growth of the college.

The college has constituted various grievances committees to resolve the grievances of students and staff.

The college has formal and informal feedback mechanism in place, which are analyzed and necessary corrective actions are taken at appropriate level. The college has established a system of getting feedback from both parents and alumni through Parents-Teacher meet and Annual College / Departmental Alumni Meet.

Affiliating University has a functional Board of College and University Development (BCUD) headed by Director which is instrumental for resolving affiliation related issues.

On conferment of academic autonomy by UGC and affiliating university; the college has taken all the possible measures that lead to encourage autonomy in true spirit.

Every effort is made by the college to enhance the professional development of teaching and non teaching staff by encouraging and supporting the faculty members for enhancement of their academic attainments and enrich them.

The performance appraisal is carried out yearly which helps the college administration to identify strengths and weaknesses of individual member of teaching and non-teaching. The administration accordingly provides counseling, if required. The internal promotions are usually carried out based on these reports.

All regular and permanent teaching and non-teaching staff members are covered under Group Insurance Scheme. For meeting medical emergency a Mediclaim Policy for Rs. 3 lakh per family with ICICI Lombard Insurance Company is implemented by the college for all teaching and non-teaching staff.

In order to attract and retain eminent faculty college offers higher salaries to the suitable and deserving candidates.

Sexual Harassment Redressal Committee with a senior lady faculty member as Chairperson has been formed by the college.

The college has separate Finance Committee. The college has made provision to carry out quarterly internal audits of the college financial accounts. External audit is being carried out by the appointed external auditors.

The college conducts academic audit referred as 'Department Level Assessment' (DLA). This assessment is carried as Qualitative assessment and Quantitative assessment on various parameters.

An Internal Quality Assessment Cell has been set up to monitor and to establish the standards in academics as well as in administration.

Criterion VII: Innovations and Best Practices

Various activities undertaken by 'Maintenance Department' of the college from time to time in consultation with horticulture experts that lead to increase in the green cover on the college campus year after year tantamount to a part of Green Audit Exercise only. In fact, until 1986, the hill on which college campus is situated and is spread over on an area of about 14 acres; was a hilly bald rocky terrain without any greenery. The college authorities have taken sustained efforts in leveling this rocky terrain to maximum possible extent and subsequently filling it with cultivating soil. Focus was given on selection of plants such as big trees, medicinal plants, fruit trees, decorative trees. Many uncommon birds are seen in the campus due to the selection of trees.

Many tree plantation drives were conducted on the hill. Extensive plantation drive was undertaken on this land by management and college, Care was taken in plantation where in big trees (188), Fruit bearing trees (81), Decorative trees (775) and trees bearing flowers (160) were planted. Large trees planted include Neem, Saptaparni, Eucalyptus (Nilgiri), Pimpal,

Gulmohar, Palm, etc. Nearly another (300) saplings procured from reputed nurseries of Telangana state have already been planted or in the process of plantation on the college campus. This is how due to concerted efforts and contribution made by the stakeholders this hilly rocky terrain has been converted into a lush green belt.

After receiving autonomy, Electrical Engineering Department introduced new subject Renewable energy generation system as a free elective (open elective) with a laboratory. Department also establishes renewable energy laboratory with solar photovoltaic simulator, solar thermal simulator. Department also installed pyranometer, anemometer and wind vane on terrace of the Electrical building to record the daily solar radiation and wind speed. The college is committed to conserve energy and effective use of non conventional energy. The college has developed innovative practices for improvement in academics, administration, overall ambiance and work culture in the college. Innovations are listed below:

For creating teamwork – MEGHOTSAVA – Annual Cultural Event is organized every year.

Academic Innovations - Academic Advisory Board, Wide circulation of Policies, Visiting Professors, Focus on difficult to learn subjects, Remedial Teaching, Moodle based Departmental Websites, Financial Assistance to UG/PG Projects, Online Teaching of Engineering Graphics

Review Mechanisms - Departmental Perspective Plan Presentations, Department level Audits, Online Feedback

Faculty Development- Induction Programmes, Mentor –Mentee Schemes, Department of Technology Enhanced Learning (DTEL), Co-Guides from other organizations, Annual Workload Plan, Parent Teacher Meet

Development of Students- PG Mentor Scheme, Interaction with role models, Project Competitions / Technical Events, Campus Recruitment Training (CRT), Talk in English (TiE), Industry aligned Professional Electives, Free Electives, Summer Term, EDP Programmes, Industrial Tours & Industrial Visits, Achievers' Club, GENNEXT.

Research & Development - Mentoring for funding proposal

Supporting Staff - Best Employee Award, Family Picnics

Academic Enhancement and Monitoring Practice and **Administrative Coordination and Review Practice** are the two best practices of the college which have strengthened the academic and administration of the college. Their systematic planning, execution and review mechanism has helped the college in developing into most preferred institution.

SWOC Analysis of the College

Strengths:

- Adequate infrastructure and conducive T-L environment
- Preferred institution for engineering education in the region
- The academic autonomy conferred by UGC in 2010
- NBA accreditation/reaccreditation of UG programmes since 2003
- Recognition as research center by RTM Nagpur University for Doctoral (Ph.D.) and M.E. (by Research) programmes
- Restructured curriculum of UG and PG programmes to suit the current industry needs
- Good placement record
- MoU's with Leading Universities in USA, UK, Malaysia & reputed Indian Institutions
- Research culture and good academic ambience
- Industry aligned professional elective courses offered by MNC's like Infosys Pune, and Globallogic, Nagpur

Weaknesses:

- Lower percentage of faculty members with Ph.D. qualification
- Industry - institute interaction is low, because of limited number of industries in the vicinity
- Less number of quality research publications
- Consultancy work in collaboration with national agencies and industries needs improvement

Opportunities:

- To explore benefits of funding agencies for strengthening laboratories with advanced research facilities
- To improve industry-institute linkage for quality students projects and industrial trainings to the student to hone the practical skills
- To develop facilities and consultancy for revenue generation
- To produce technically competent manpower to cater the needs of the industries by offering industry aligned courses
- To increase the quality of research publications

Challenges:

- Retention of qualified and competent faculty
- Cope up with increasing competitive employment scenarios in professional organizations
- Mushroom growth of engineering institution
- Non-availability of faculty with industrial exposure
- Campus Placement in core companies



Former President of India, Dr. A. P. J. Abdul Kalam's Visit

PART – B

PROFILE OF THE COLLEGE

B. Profile of the Autonomous College

1. Name and address of the College:

Name: Yeshwantrao Chavan College of Engineering
Address: Wanadongri, Hingna Road, Nagpur – 441 110
City: Nagpur State: Maharashtra
Website: www.ycce.edu , Email: principal@ycce.edu
Phone: +91-7104-242919, 329249, 329250,242623
Phone (Principal office): +91-7104-242620, 09764996477

2. For communication:

Designation	Name	Telephone with STD code	Mobile	Email
Principal	Dr. U. P. Waghe	O: 07104-242919, 242623	9764996477	principal@ycce.edu
Registrar	Dr. P. K. Dakhole	O: 07104-242919, 242623	9049990515	pkdakhole@ycce.edu
Steering Committee Co-ordinator	Prof. A. R. Bhagat Patil	O: 07104-242919, 242623	8552963777	arbhatpatil@gmail.com

3. Status of the Autonomous College by management.

- Government
- Private ✓
- Constituent College of the University

4. Name of University to which the College is Affiliated

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
--

5. a. Date of establishment, prior to the grant of 'Autonomy': 08/06/1984

b. Date of grant of 'Autonomy' to the College by UGC: 18/11/2009

6. Type of institution:

a. By Gender

- | | |
|------------------|-------------------------------------|
| i For Men | <input type="checkbox"/> |
| ii For Women | <input type="checkbox"/> |
| iii Co-education | <input checked="" type="checkbox"/> |

b. By shift

- | | |
|-------------|-------------------------------------|
| i Regular | <input type="checkbox"/> |
| ii Day | <input checked="" type="checkbox"/> |
| iii Evening | <input checked="" type="checkbox"/> |

c. Source of funding

- | | |
|------------------------------|-------------------------------------|
| i Government | <input type="checkbox"/> |
| ii Grant-in-aid | <input type="checkbox"/> |
| iii Self-financing | <input checked="" type="checkbox"/> |
| iv Any other (Please specify | <input type="checkbox"/> |

7. Is it a recognized minority institution?

- | | |
|-----|-------------------------------------|
| Yes | <input type="checkbox"/> |
| No | <input checked="" type="checkbox"/> |

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

NA

8. a. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2 (f)	01/05/2007	Scanned copy Enclosed
ii. 12 (B)	17/04/2013	Scanned copy Enclosed

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

b. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE,NCTE,MCI,DCI,PCI,RCI etc.)

Under Section/clause	Day, Month and Year (dd-mm-yyyy)	Validity	Programme/ institution	Remarks
AICTE, F.No.Western/1- 2050722205/2015/EOA Dated 07/04/2015	07/04/2015	1 year	All UG/PG Programmes	Scanned copy Enclosed
NBA, Letter No. 28- 194/2010-NBA dated 08/02/2014	04/02/2014	2 years	B. E. Electronics Engineering	Scanned copy Enclosed
	04/02/2014	2 years	B. E. Computer Technology	
	04/02/2014	2 years	B. E. Information Technology	

(Enclose the Certificate of recognition/approval)

9. Has the College been recognized

a By UGC as a 'College with Potential for Excellence' (CPE)?

Yes No

b. For its contributions/performance by any other governmental agency?

Yes No

10. Location of the campus and area:

Location *	Rural
Campus area in sq. mts or acres	14 acres
Built up area in sq. mts.	37040.72 sq. m

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Does the College have the following facilities on the campus (Tick the available facility)? In case the College has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex ----- ✓
- Sports facilities
 - * play ground ----- ✓
 - * swimming pool ----- ✓
 - * gymnasium ----- ✓

- Hostel
 - * Boys' hostels ----- ✓
 - * Girls' hostels ----- ✓
- Residential facilities
 - * for teaching staff
 - * for non-teaching staff
- Cafeteria ----- ✓
- Health centre –
 - First aid facility ----- ✓
 - Inpatient facility
 - Outpatient facility
 - ambulance facility ----- ✓
 - emergency care facility ---- ✓
 - Health centre staff –
 - Qualified doctor Full time Part-time ✓
 - Qualified Nurse Full time Part-time ✓
- Other facilities
 - Bank ----- ✓
 - ATM ----- ✓
 - Post office
 - Book Shops ----- ✓
- Transport facilities
 - * for students ----- ✓
 - * for staff
- Power house ----- ✓
- Waste management facility ----- ✓

12. Details of programmes offered by the institution: (Give data for current academic year)

Programme Level	Name of the Programme / Course	Duration	Entry Qualification	Medium of instruction	Sanctioned / approved Student intake	No. of students admitted
UG (B. E.)	Electronics & Telecommunication Engg.	04 Years	(For first year) HSSC (Std XII – 50% for Open, 45% for Backward class and PH candidates from Maharashtra state in PCM + non zero score in JEE(Main) examination (For Direct Second Year) Diploma in Engg in respective discipline with aggregate score 50% for Open, 45% for Backward class	English	120 Shift- I	124
					60 Shift - II	59
	Civil Engineering				180 Shift- I	185
	Electrical Engineering				120 Shift- I	126
					60 Shift - II	60
	Electronics Engineering				120 Shift- I	126
	Computer Technology				120 Shift- I	125
	180 Shift- I	189				
	Information Technology				60 Shift - I	63
PG (M. Tech.)	Electronics Engineering	02 Years	B.E. / B. Tech / AMIE in respective engineering discipline	English	25 Shift - I	25
	Production Engineering				25 Shift - I	15
	Structural Engineering				25 Shift - I	25
	Integrated Power System				18 Shift - I	18
	CAD/CAM				18 Shift - I	14
	Communication Engineering				24 Shift - I	24
	VLSI Design				18 Shift - I	18
					24 Shift - II	21
	Computer Science and Engineering				24 Shift - I	19
					24 Shift - II	13
	Environmental Engineering				18 Shift - I	07
	Information Technology				18 Shift - I	06

13. Does the institution offer self-financed Programmes?

Yes No

Institute is granted permission to run all UG & PG programs on permanently NO grant basis. Therefore, Nine Engineering UG & Twelve Engineering PG programs are offered as self-financed programmes.

14. Whether new programmes have been introduced during the last five years?

Yes No

If yes

Number 05

1. M. Tech. Communication Engineering (2010-11)
2. M. Tech. VLSI Design (2010-11)
3. M. Tech. Computer Science and Engineering (2010-11)
4. M. Tech. Environmental Engineering (2010-11)
5. M. Tech. Information Technology (2012-13)

15. Departments and offered programmes to students

Particulars	Number	Number of Students
Engineering & Technology		
Under Graduate	07 + 03 = 10	Reg:4531+RA&RR: 88= 4619
Post Graduate	07	Reg: 444+RA&RR: 11= 455
Research Centre(s)	07 + 03=10	Ph.D: 145+ ME(R): 07= 152

RA = Re-admitted RR = Re-registered

16. Are there any UG and/or PG programmes offered by the College, which are not covered under Autonomous status of UGC? Give details.

NO. All the UG/PG programmes offered by the college are covered under autonomous status.

17. Number of Programmes offered under (Programme means a degree course like BA, MA, BSc, M Sc, BCom etc.)

a Annual system	Nil	B. E., M. Tech.
b Semester system	02	
c Trimester system	Nil	

18. Number of Programmes with

- a Choice based credit system
- b Inter/multidisciplinary approach
- c Any other (specify)

Nil
Nil
Credit Based System

19. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

- (a) Including the salary component
- (b) Excluding the salary component

Rs. 92,822/-
Rs. 26,216/-

20. Does the College have a department of Teacher Education offering NCTE recognized degree programmes in Education?

Yes No

21. Does the College have a teaching department of Physical Education offering NCTE recognized degree programmes in Physical Education?

Yes No

22. Whether the College is offering professional programme?

Yes No

Scanned copies of Approval letters are enclosed

23. Has the College been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.

NO, the college is not reviewed by any regularoty authority.

24. Number of teaching and non-teaching positions in the College

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F				
Sanctioned by the Management/Society or other authorized bodies	25	05	35	10	131	95	102	15	103	11
Recruited	25	05	35	10	131	95	102	15	103	11
Yet to recruit	00	00	00	00	00	00	00	00	00	00

*M-Male *F-Female

25. Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
A. Permanent Teachers							
D.Sc. / D.Litt.							
Ph.D.	24	5	8	7	3	2	49
M.Phil.			1	1	0	0	2
M.TECH./ME/M.A./M.SC	1	0	23	2	118	85	229
B.E./B.A.			3	0	1	1	5
TOTAL (A)	25	5	35	10	122	88	285
PG	10	1	5	1	11	15	43
UG	15	4	30	9	111	73	242
B. Temporary Teachers	0	0	0	0	0	0	0
C. Part-time Teachers							
Ph.D.	0	0	0	0	1	0	1
M.Phil.	0	0	0	0	0	0	0
M.TECH./ME/M.A./M.SC /MBA	0	0	0	0	6	3	9
B.E./B.A.			0	0	2	4	6
TOTAL (C)	0	0	0	0	9	7	16
PG	0	0	0	0	0	0	0
UG	0	0	0	0	9	7	16
TOTAL (A+B+C)	25	5	35	10	131	95	301

26. Number of Visiting Faculty/ Guest Faculty engaged by the College.

04

27. Students enrolled in the College during the current academic year, with the following details:

Students	UG		PG		Ph.D.	
	M	F	M	F	M	F
From the state where the College is located	656	342	71	131	1	1
From other states of India	41	10	03	--		
NRI students	11	01	--	--	--	--
Foreign students	--	--	--	--	--	--
Total	708	353	74	131	1	1

*M-Male, F-Female

28. Dropout rate in UG and PG (average for the last two batches)

Year	Admission Year 2010-11	Admission Year 2011-12	Average
UG	39 = 5.13%	49=5.91%	5.52%

Year	Admission Year 2012-13	Admission Year 2013-14	Total No. of Students
PG	0.58%	1.20%	0.89%

29. Number of working days during the last academic year.

UG	1 st Year	2 nd to 4 th Year	PG	1 st Year	2 nd Year
		219		244	

30. Number of teaching days during the last academic year

UG	1 st Year	2 nd to 4 th Year	PG	1 st Year	2 nd Year
		164		174	

31. Is the College registered as a study centre for offering distance education programmes for any University?

Yes No

32. Provide Teacher-student ratio for each of the programme/course offered

Name of the Programme	Teacher-student ratio
BE Electronics & Telecommunication Engineering	01:15
BE Civil Engineering	01:15
BE Electrical Engineering	01:15
BE Electronics Engineering	01:15
BE Computer Technology	01:15
BE Mechanical Engineering	01:15
BE Information Technology	01:15
MTech Electronics Engineering	01:12
MTech Production Engineering	01:12
MTech Structural Engineering	01:12
MTech Integrated Power System	01:12
MTech CAD/CAM	01:12
MTech Communication Engineering	01:12
MTech VLSI Design	01:12
MTech Computer Science Engineering	01:12
MTech Environmental Engineering	01:12
MTech Information Technology	01:12

33. Is the College applying for?

Accreditation : Cycle 1 Cycle 2 Cycle 3 Cycle 4

Re-Assessment:

34. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: (dd/mm/yyyy) Accreditation outcome/results

Cycle 2: (dd/mm/yyyy) Accreditation outcome/results

Cycle 3: (dd/mm/yyyy) Accreditation outcome/results

* Kindly enclose copy of accreditation certificate(s) and peer team report(s)

Cycle 1 refers to first accreditation; Cycle 2 and beyond refers to reaccreditation

Not Applicable.

35. a. Date of establishment of Internal Quality Assurance Cell (IQAC)

.....(dd/mm/yyyy)

b. Dates of submission of Annual Quality Assurance Reports (AQARs).

- (i) AQAR for year on(dd/mm/yyyy)
- (ii) AQAR for year on (dd/mm/yyyy)
- (iii) AQAR for year on (dd/mm/yyyy)
- (iv) AQAR for year on..... (dd/mm/yyyy)


Not Applicable.

36. Any other relevant data, the College would like to include. (Not exceeding one page)

Scanned Copies of required documents are as under:

- a. Certificate of Validity of Affiliation of different UG and PG programmes issued by R. T. M. Nagpur University, Nagpur
- b. Letter of conferment of fresh autonomous status by UGC & R.T.M. Nagpur University, Nagpur
- c. Recognition of college under 2(f) and 12 (B) of the UGC acts 1956.
- d. Letter from AICTE for approval of different UG and PG programmes offered by the college
- e. Letter from affiliating university (RTM Nagpur University, Nagpur) for approval of recognition as a place for higher Learning and Research
- f. NBA Accreditation Letter
- g. Master Plan of the college

a) Certificate of Validity of Affiliation of different UG and PG programs



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY
 Established by Government of Central Provinces Education Department by Notification No.513 dated the 1st of August 1923 & presently a State University governed by M.U. Act, 1994)
Re-accreditation by NAAC 'A' Grade

Office: Department of Board of College and University Development, Administrative Building, Mahatma Jyotiba Fule Education Campus, Amravati Road, Nagpur-440 033 (M.S) (INDIA)
Website: www.nagpuruniversity.org/e-mail : directorbcud@nagpuruniversity.nic.in

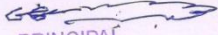
Dr. D. K. Agarwal
 Director ,BCUD

Phone No.2042962
 No.RTMNU/BCUD/2016/G/56
 Date : 16/01/2016

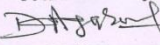
TO WHOM SO EVER IT MAY CONCERN


This is to certify that, **Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur-441110** is an (Autonomous College) is affiliated to the Rashtrasant Tukadoji Maharaj Nagpur University since 1984 and approved by All India Council of Technical Education and recognized by the University Grants Commission, New Delhi. The following programmes Courses/Subjects are taught in the said college as per approval.

Sr. No.	Courses/Subject	Duration of the course	Affiliation (Permanent/ Temporary)	Validity period
1	Faculty of Engineering & Technology Under Graduate 1. Civil Engineering 2. Mechanical Engineering 3. Electronics Engineering 4. Electronics & Power Engineering (Electrical Engineering) 5. Computer Technology 6. Electronics & Telecommunication Engineering, 7. Information Technology.	4 Years	Permanent	Permanent
2	Post Graduate M.Tech. 1. Structural Engineering 2. Environmental Engineering 3. Production Engineering 4. Computer Aided Design & Manufacture 5. Electronics Engineering 6. Communications Engineering 7. VLSI Design 8. Integrated Power Systems 9. Computer Science and Engineering 10. Information Technology	2 Years	Temporary	2015-2016
3	Under Graduate (Bachelor of Engineering) SECOND SHIFT 1. Electronics & Telecommunication Engineering 2. Electrical Engineering	4 Years	Temporary	2015-2016
4	Post Graduate (M. Tech.) SECOND SHIFT 1. Computer Science and Engineering 2. VLSI Design	2 Years	Temporary	2015-2016



PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wanadongri, Hingna Road,
 NAGPUR - 441110

Yours sincerely

 (Dr. D. K. Agarwal)
 Director, BCUD



b) i) Letter of conferment of fresh autonomous status by UGC

Office:- 011-23239200

UGC Website : www.ugc.ac.in

Prof. Rajesh Anand
Joint Secretary

ज्ञान-विज्ञानं
विमुक्तये

विवेकविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

BY SPEED POST

No.F. 22-1/2009(AC) November, 2009

The Registrar,
Rashtrasant Tukdoji Maharaj,
Nagpur Univ.
Ravindranath Tagore Marg
Nagpur-440 001

18 NOV 2009

Sub:- **Conferment of Fresh Autonomous Status of Yeshwantro Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur - Regarding.**

Sir,

I am pleased to inform you that the Commission at its 465th meeting held on 27th October, 2009 considered the report of Expert Committee constituted by the UGC, which visited **Yeshwantro Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur** affiliated to **Rashtrasant Tukdoji Maharaj, Nagpur Univ.**

Based on the recommendations of the Expert Committee, the Commission has **AGREED** to conferment and grant of Fresh autonomous status to the college for the period mentioned is as under:-

Sl. No.	Name of the College	Dates of visits	Period of conferment of autonomous status from the academic years
1.	Yeshwantro Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur	10 th & 11 th October, 2009	2010-2011 to 2015-2016

The Rashtrasant Tukdoji Maharaj, Nagpur Univ., may now go ahead and issue necessary orders in this regard by endorsing a copy of the same to this office for our records. **The admissible grant under the scheme will be released to the College as per its eligibility, according to the norms as laid down in the XIth Plan Guidelines,** by the Joint Secretary & In charge, UGC, WRO Office, Ganeshkhind, Pune-411 007.

Yours faithfully,
(Rajesh Anand)
P.T.O.

Y. C. C. E.
Hingna Road Nagpur.
Inward No 486. Dt 24/11/09

Signature

SEAL
Y. C. C. E. COLLEGE OF ENGINEERING
AN AUTONOMOUS INSTITUTION
NAGPUR

PRINCIPAL
Yeshwantro Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

-2-

Copy to:-

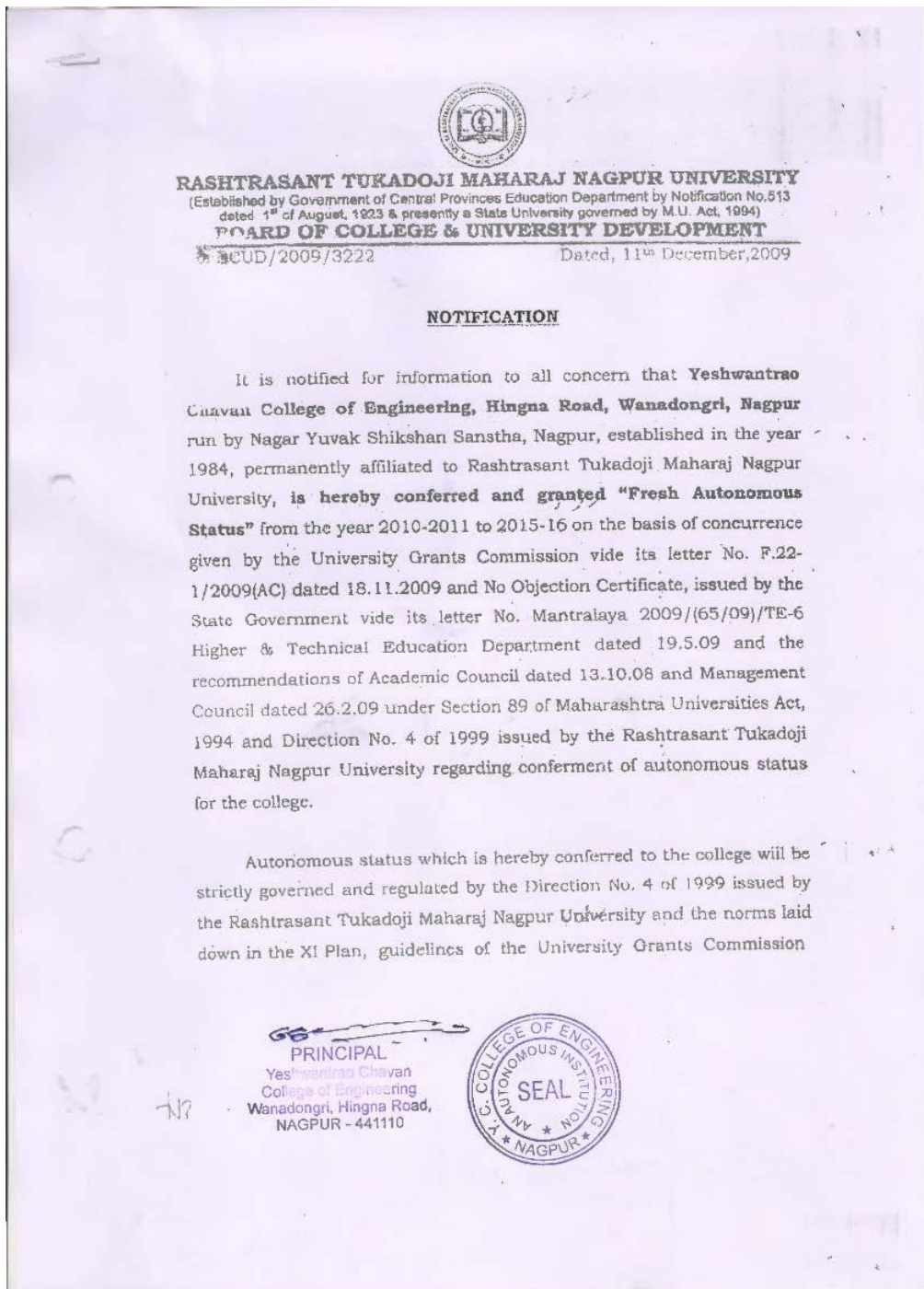
- 1 The Secretary, Govt. of Maharashtra, Department of Higher Education Secretariat, M
- 2 The Dean College Development Council, Rashtrasant Tukdoji Maharaj, Nagpur Univ.
Ravindranath Tagore Marg, Nagpur-440 001
- 3 The Joint Secretary & In charge, UGC, WRO Office, Ganeshkhind, Pune-411 007
The Principal, Yeshwantro Chavan College of Engineering, Hingna Road,
Wanadongri, Nagpur ✓
- 5 Meeting Cell.
- 6 The Section Officer, R.O. Section, University Grants Commission, Bahadur Shah Zafar
Marg, New Delhi-110002
- 7 Concerned file
8. Guard File.




PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

(Rajesh Anand)

ii) Letter of conferment of fresh autonomous status by RTMNU



and the amendments thereof, if any, issued by the University, State Government and the University Grants Commission, time to time.

By order of Hon'ble Vice-Chancellor

S.T. Belsare
(S.T. Belsare)

Registrar
Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur

Copy for information to:

1. The President, Nagar Yuvak Shikshan Sanstha, Nagpur
2. The Principal, Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur.
3. The Secretary, University Grants Commission, Bahadurshah Zafar Marg, New Delhi.
4. The Secretary to the Chancellor, Mumbai.
5. The Principal Secretary, Higher & Technical Education, Govt. of Maharashtra, Mumbai.
6. The Secretary, AICTE, New Delhi.
7. The Director, Technical Education, Maharashtra State, Mumbai.
8. The Director, Higher Education, Maharashtra State, Pune.
9. The Joint Director, Technical Education, Nagpur Region, Nagpur.
10. The Joint Director, Higher Education, Nagpur Region, Nagpur.
11. Deputy Secretary, AICTE, WRO, Mumbai.
12. All Officers of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

S.T. Belsare
(S.T. Belsare)
PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

Registrar
Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur



c) Recognition of college under 2(f) and 12 (B) of the UGC acts 1956

23236351, 23232761, 23237721, 23234116
23235733, 23232317, 23236735, 23239437
www.ugc.ac.in

F.8-47/2001 (CPP-I)

The Registrar,
The Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur-440 001 (M.S).

वैश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

April, 2007
- 1 MAY 2007

Sub:- List of Colleges prepared under Section 2 (f) of the UGC Act, 1956- Inclusion of New Colleges.

Sir,
I am directed to refer to the letter dated nil received from the College on the subject cited above and to say that the name of the following College has been included in the list of Colleges prepared under Section 2 (f) of the UGC Act, 1956 under the head Non-Government Colleges teaching Post Graduate Degree:-

Name of the College	Year of Establishment	Remarks
Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur-441 110 (M.S). (On permanent affiliation)	1984	The College is not eligible to receive Central assistance under Section 12 (B) of the UGC Act, 1956 as the UGC has not yet finalised the details to provide financial assistance to "Self Financed Colleges".

The Indemnity Bond and other documents in respect of, the above College have been accepted by the Commission.

Yours faithfully,
(S.C. Chadha)
Deputy Secretary

Copy forwarded to:-

- The Principal, Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur-441 110 (M.S).
- The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary Education & Higher Education, Shastri Bhavan, New Delhi-110 001.
- The Secretary, Government of Maharashtra, Higher Education Department, Mumbai (M.S).
- The Joint Secretary, UGC, Western Regional Office, Ganeshkhind, Poona University Campus, Pune (M.S)-411 007.
- Publication Officer, UGC-Website, New Delhi.
- Section Officer (F.D.-III Section) U.G.C., New Delhi.
- All Sections, U.G.C, New Delhi.
- Guard file.

Principal - letter is unsigned
A.D. [Signature]
14/5
(Om Prakash)
Section Officer

Copy to [Signature] at [Signature] academics
SEAL
PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

Do
Nelsu 14/5

Ph. 23236351, 23232701, 23237721
23234116, 23235733, 23232317
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)
UGC Website: www.ugc.ac.in
F. No. 8-279/2005 (CPP-I/C)



विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

April, 2013

The Registrar,
Rashtrasant Tukadoji Maharaj Nagpur University
Ravindranath Tagore Marg
Nagpur - 440 001
Maharashtra

17 APR 2013

Sub: - Change the status of the College under Section 12 (B) of the UGC Act, 1956.

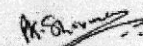
Sir,

In supersession of this office letter of even No. dated 11.11.2010 on the above subject and to say that Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur - 441 110, Maharashtra is un-aided/self financed college and permanently affiliated to Rashtrasant Tukadoji Maharaj Nagpur University and the name of aforesaid college has been included in the list of colleges prepared under Section 12 (B) of the UGC Act, 1956 under the head 'Non-Government Colleges teaching upto Master's Degree':-

Name of the College	Year of Establishment	Remarks
Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur - 441 110, Maharashtra.	1998	The College is now declared fit to receive Central assistance in terms of Rules framed under Section 12 (B) of the UGC Act, 1956. However, the College, being a self financing & unaided, would be eligible to receive UGC's support only in respect of teachers & students related schemes as per the decision of the Commission dated 6 th July 2011.

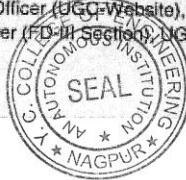
The documents submitted in respect of the above College have been accepted by the University Grants Commission. The earlier letter dated 11.11.2010 may please be treated as cancelled.

Yours faithfully,

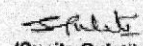

(P.K. Sharma)
Under Secretary

Copy to:-

1. The Principal, Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur - 441 110, Maharashtra.
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.
3. The Principal Secretary, Tech. & Higher Education Department, Government of Maharashtra, Mantralaya, Annexe Building, Mumbai - 400 032 (Maharashtra).
4. The Deputy Secretary, UGC, Western Regional Office (WRO), Ganeshkhind, Poona - 411 007, (Maharashtra).
5. Publication Officer (UGC Website), New Delhi.
6. Section Officer (F.D.-II Section), UGC, New Delhi.
7. Guard file.



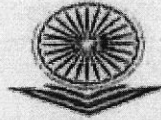

PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110


(Sunita Gulati)
Section Officer

Ph. 23236331, 23232701, 23237754
23234116, 23235733, 23232311
23236733, 23239437, 23239627

Extension No. 413 (C/P-1 Colleges)
UGC Website: www.ugc.ac.in
F. No. B-279/2005 (CPP-UG)

The Registrar,
Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur - 440 001,
Maharashtra.



SPEED POST

विश्वविद्यालय अनुदान आयोग
एनएच 110 मार्ग
नई दिल्ली 110 002
UNIVERSITY GRANTS COMMISSION
BAHAURSHAH ZAFAR MARG
NEW DELHI-110 002

November, 2010

Sub: Declaring a College fit to receive Central Assistance under Section 12 (B) of the UGC Act, 1956.

Sir,

I am directed to refer to the letter No. BCUD/J/2010/2320 dated 11.08.2010 received from the Director of the University, BCUD on the above subject and to say that it is noted that the following college is un-aided/self financed and permanently affiliated to Rashtrasant Tukadoji Maharaj Nagpur University. I am further to say that the name of the following college has been included in the list of colleges prepared under Section 12 (B) of the UGC Act, 1956 under the head 'Non Government Colleges teaching upto Master's Degree':-

Name of the College	Year of Establishment	Remarks
Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur - 441 110, (Maharashtra).	1984	The college is already included under Section 2 (f) of the UGC Act, 1956 vide this office letter No. F. B-47/2001 (CPP-I) dated 01.06.2007. The college is now declared fit to receive Central Government grants from other sources, even if it does not receive grants from UGC due to paucity of funds as decided by the Commission at its meeting held on 4 th May, 2010.

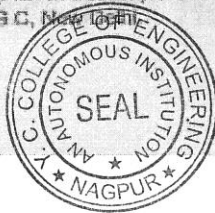
The documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

(Uma Bali)
Under Secretary

Copy to:-

1. The Principal, Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur - 441 110, (Maharashtra).
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.
3. The Principal Secretary, Tech. & Higher Education Department, Government of Maharashtra, Mantralaya, Annexe Building, Mumbai - 400 032, (Maharashtra).
4. The Deputy Secretary, UGC, Western Regional Office (WRO), Ganeshkhind, Poona - 411 007, (Maharashtra).
5. Publication Officer (Website-UGC), New Delhi.
6. Section Officer (F.D -III Section) U.G.C., New Delhi.
7. All Sections, U.G.C., New Delhi.
8. Guard file



(Sunita Gulati)
Section Officer

PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

d) AICTE approval of different UG and PG programs (2015-2016)



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. Western/1-2450722205/2015/EOA

Date: 07-Apr-2015

To,
The Secretary,
Tech. & Higher Education Deptt.,
Govt. of Maharashtra, Mantralaya,
Annexe Building, Mumbai-400032

Sub: Extension of approval for the academic year 2015-16

Ref: Application of the institution for Extension of approval for the academic year 2015-16

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Western	Application Id	1-2450722205
		Permanent Id	1-4736951
Name of the Institute	YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING	Institute Address	WANADONGRI, HINGNA ROAD, NAGPUR - 441 110, NAGPUR, NAGPUR, Maharashtra, 441110
Name of the Society/Trust	NAGAR YUWAK SHIKSHAN SANSTHA	Society/Trust Address	ATREY LAYOUT, NEAR PRATAP NAGAR, NAGPUR, NAGPUR, Maharashtra, 440022
Institute Type	Unaided - Private		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2015-16

Application Number: 1-2450722205*

Page 1 of 5

Note: This is a Computer generated Letter of Approval. No signature is required.

Letter Printed On: 15 April 2015

Printed By : AE3205891



PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2450722205			Course	Affiliating Body	Initials 2014-15	Initials Approved for 15-16	NSI Approval status	PFO Approval status	Foreign Collaboration Approval status	
Program	Shift	Level		Full/Part Time						
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMMUNICATIONS ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER AIDED DESIGN AND MANUFACTURE	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ELECTRONICS ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	25	25	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENVIRONMENTAL ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	INTEGRATED POWER SYSTEMS	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	18	18	NA	NA	NA

Application Number: 1-2450722205*

Page 2 of 6

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:15 April 2015

Printed By : AE3205891



PRINCIPAL
Yashwantrao Chavan
College of Engineering
Wanadongji, Hingna Road,
NAGPUR - 441110



All India Council for Technical Education
 (A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
 PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2450722205			Course	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status	
Program	Shift	Level	Full Part Time							
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	PRODUCTION ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	25	25	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	STRUCTURAL ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	25	25	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	VLSI DESIGN	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	180	180	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER TECHNOLOGY	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	120	120	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	120	120	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	120	120	Yes	Yes	NA

Application Number: 1-2450722205*

Page 3 of 5

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On: 15 April 2015

Printed By : AE3205881



PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wanadongri, Hingna Road,
 NAGPUR - 441110



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2450722205			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-18	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & TELE-COMMUNICATION ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	120	120	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	60	60	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	180	180	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	POST GRADUATE	VLSI DESIGN	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	UNDER GRADUATE	ELECTRICAL ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	UNDER GRADUATE	ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	60	60	NA	NA	NA

Note: Validity of the course details may be verified at www.aicte-india.org/departments-approvals

Application Number: 1-2450722205

Page 4 of 5

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:15 April 2015

Printed By : AE3205891



PRINCIPAL
Yashwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

The above mentioned approval is subject to the condition that YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Dr. Avinash S Pant
Actg Chairman, AICTE

Copy to:

1. **The Regional Officer,**
All India Council for Technical Education
Industrial Assurance Building
2nd Floor, Nariman Road
Mumbai - 400 020, Maharashtra
2. **The Director Of Technical Education,**
Maharashtra
3. **The Registrar,**
The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. **The Principal / Director,**
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
WANADONGRI,
HINGNA ROAD,
NAGPUR - 441 110,
NAGPUR, NAGPUR,
Maharashtra, 441110
5. **The Secretary / Chairman,**
NAGAR YUWAK SHIKSHAN SANSTHA
ATREY LAYOUT, NEAR PRATAP NAGAR,
NAGPUR, NAGPUR,
Maharashtra, 440022
6. **Guard File(AICTE)**

Application Number: 1-2450722205*

Page 5 of 5

Note: This is a Computer generated Letter of Approval.No signature is required.

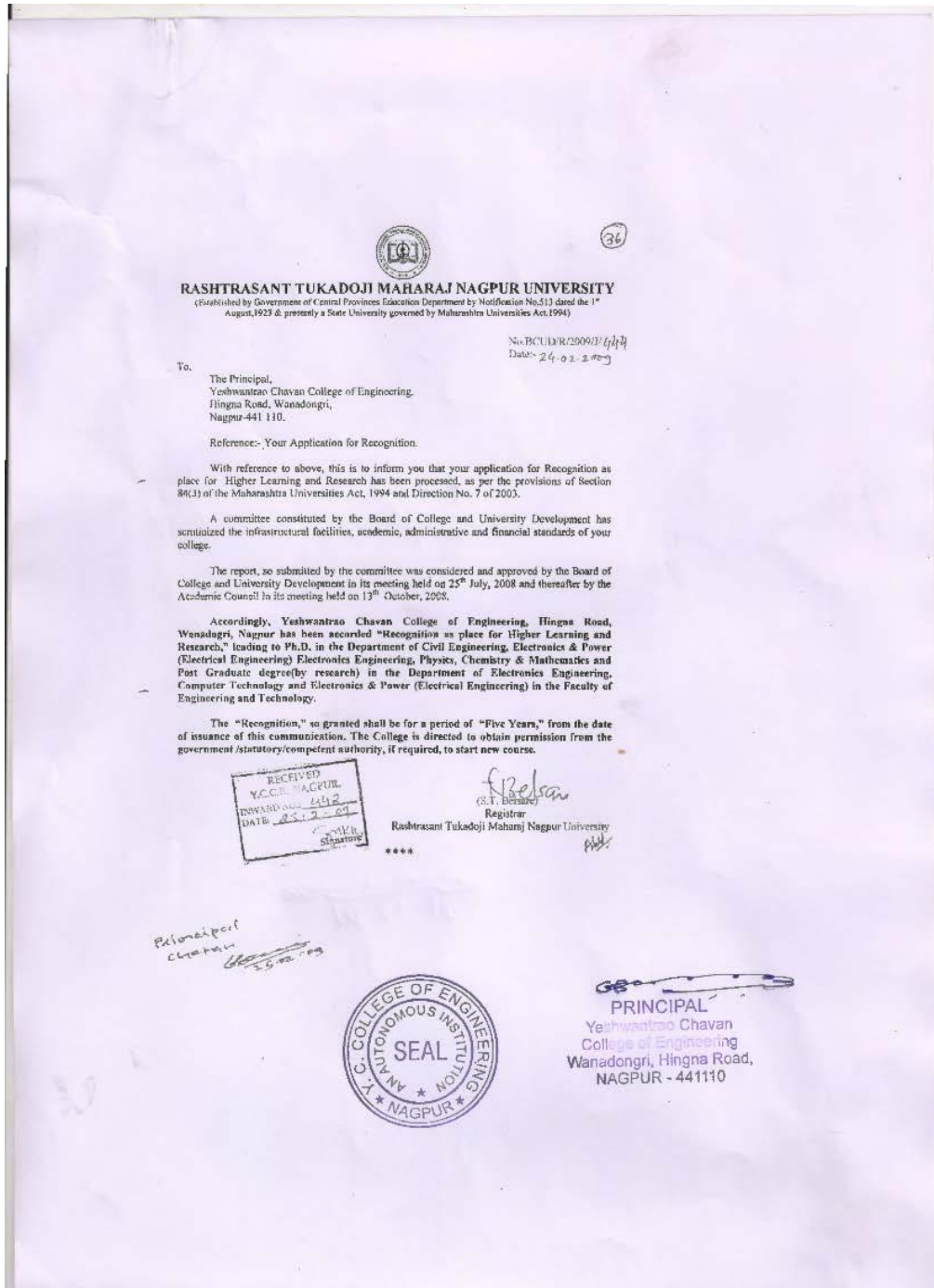
Letter Printed On:15 April 2015

Printed By : AE3205891



PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

e) Letter for approval of recognition as a place for higher Learning and Research issued by RTM Nagpur University





RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

(Established by Government of Central Provinces Education Department by Notification No.513 dated the 1st August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)

No. BCUD/R/1/2012/ 972-10/1173
Date: 15/05/2012

To,
The Principal
Yeshwantrao Chavan College of Engineering,
Hingna Road, Wanadongri,
Nagpur-441110.

Reference: Your Application for Recognition.

With reference to above, this is to inform you that your application for Recognition as place for Higher Learning and Research has been processed, as per the provisions of Section 84(3) of the Maharashtra Universities Act, 1994 and Direction No. 7 of 2003.

A committee constituted by the Board of College and University Development has scrutinized the infrastructural facilities, academic, administrative and financial standards of your college.

The report, so submitted by the committee was considered and approved by the Board of College and University Development in its meeting held on 4th January, 2012 vide item No.118 and thereafter by the Academic Council in its meeting held on 23rd February, 2012 vide item No.101.

Accordingly, Yeshwantrao Chavan College of Engineering, Nagpur has been granted Recognition as "Place for Higher Learning and Research" leading to Ph.D. degree in the "Departments of Information Technology, Electronics & Telecommunication Engineering and Computer Technology" in the Faculty of Engineering and Technology with the maximum intake capacity of 10 registered students in each subject.

The "Recognition" so granted, shall be for a period of "Five Years" from the date of issuance of this communication.

(Dr. A.D. Choudhary)
Registrar
Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur.

/Mohd Zahid/Certificate-1/08032012/

Principal
Registrar AR
Director R&D AO
PA to Principal Arelalan

PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110





RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

(Established by Government of Central Provinces Education Department by Notification No.513 dated the 1st August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)

No.BCUD/R/J/2012/ 1053/C/261
Date: 22/5/12

To,
The Principal
Yeshwantrao Chavan College of Engineering,
Hingna Road, Wanadongri,
Nagpur-441110.

Reference: Your Application for renewal of recognition to your College.

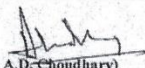
This has reference to your application dated 18.4. 2011. I am to inform you that your application of renewal for Recognition as place for Higher Learning and Research has been processed, as per the provisions of Section 84(3) of the Maharashtra Universities Act, 1994 and Direction No. 7 of 2003.

A committee constituted by the Board of College and University Development has scrutinized the infrastructural facilities, academic, administrative and financial standards of your college.

The report, so submitted by the committee was considered and approved by the Board of College and University Development in its meeting held on 4th January, 2012 vide item No. 114 and thereafter by the Academic Council in its meeting held on 23rd February, 2012 vide item No. 107.

Accordingly, Yeshwantrao Chavan College of Engineering, Nagpur has been granted renewal of Recognition as "Place for Higher Learning and Research" leading to Ph.D. research in "Departments of Mechanical Engineering and M.E. by research in Mechanical Engineering and Civil Engineering" in the Faculty of Engineering & Technology with the maximum intake capacity of 10 registered students in each subject.

The "Recognition" so granted, shall be for a period of "Five Years" from the date of issuance of this communication.


(Dr. A.D. Choudhary)
Registrar
Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur.

Principal

/Mohd Zahid/Certificate-I/19052012/

copy to Registrar ✓
A.O.
P.A to Principal.

tehran
15/5/2012




PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

(Established by Government of Central Provinces Education Department by Resolution No.513 dated the 1st August, 1923 & presents a State University governed by Maharashtra Universities Act, 1994)

No. DCUDRAG.2015/1323

Date: 2nd November, 2015

3rd December, 2015

To,
The Principal,
Yeshwantrao Chavan College
of Engineering, Hingna Road,
Nagpur - 441010

Reference: Your Application for Recognition (Renewal)

With reference to above, this is to inform you that your application for Recognition as Place for Higher Learning and Research has been processed, as per the provisions of Section 84(3) of the Maharashtra Universities Act, 1994 and Direction No. 7 of 2003.

A committee constituted by the Board of College and University Development has verified the infrastructural facilities, academic, administrative and financial standards of your college.

The report, so submitted by the committee was considered and approved by the Board of College and University Development and thereafter by the Academic Council.

Accordingly, Yeshwantrao Chavan College of Engineering, Hingna Road, Nagpur has been granted Renewal of Recognition as "Place for Higher Learning and Research" leading to **Ph.D. in-** (i) Civil Engineering, (ii) Electrical Engineering, (iii) Electronics Engineering and **M.E. by Research in** (i) Electrical Engineering, (ii) Electronics Engineering (iii) Computer Technology, in the faculty of Engineering & Technology with the maximum intake capacity of 10 registered students in each subject.

The "Renewal of Recognition" so granted, shall be for a period of "Five Years" w.e.f. 24/02/2014.

You are also requested to submit the progress report of your research centre as mention in clause 10 of Direction No. 7/2003.

(Puran Meshram)

Registrar

Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur.

Copy to:

Dy. Registrar, (Ph.D. Cell),
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.




Handwritten signature of the Principal

PRINCIPAL

Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

f) NBA Accreditation Letter of programs

NATIONAL BOARD OF ACCREDITATION
 NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg
 Pragati Vihar, New Delhi-110 003
 Tel: +91 11 2436 0620, 2436 0654 Telex: +91 11 2436 0682



NBA
 NATIONAL BOARD
 ACCREDITATION

File No. 2R-194/2010-NBA

Dt. 8th February, 2014

To

The Principal,
 Nagar Yuwak Shikshan Sanstha's
 Yeshwantrao Chavan College of Engineering,
 Hingna Road, Wanadongri,
 Nagpur-441110,
 Maharashtra

Sub: Appeal regarding accreditation status of UG programmes offered by Nagar Yuwak Shikshan Sanstha's Yeshwantrao Chavan College of Engineering, Nagpur, Maharashtra


Dear Sir/Madam,

This has reference to appeal dated 08.11.2013 filed by you in response to NBA's letter of even number dated 17.10.2013 not accrediting UG Engineering programmes offered by your College.

2. The Appeal was considered by the Appellate Committee of NBA in its meeting held on 18.12.2013. The recommendations of the Appellate Committee were considered by the Sub-Committee of General Council of NBA at its meeting held on 04th February, 2014. Based on the decision taken by the Sub-Committee, accreditation status of the programmes is given in the Table below:

Sl. No.	Name of the Programmes (UG)	Accreditation Status	Period of validity w.e.f. 04-02-2014	Remarks
(1)	(2)	(3)	(4)	(5)
1.	Computer Technology	Provisionally Accredited	2 years	Accreditation Status granted is valid for the period indicated in Col.4 or till the programme has the approval of the Competent Authority, whichever is earlier.
2.	Electronics Engineering	Provisionally Accredited	2 years	
3.	Information Technology	Provisionally Accredited	2 years	

3. The accreditation status awarded to the programmes as indicated in the above table does not imply that the accreditation has been granted to Yuwak Shikshan Sanstha's Yeshwantrao Chavan College of Engineering, Nagpur, Maharashtra as a whole. **As such the College should nowhere along with its name including on its letter head etc., write that it is accredited by NBA because it is programme accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the programme(s) accredited, level of programmes (UG or PG as the case may be) and the period of validity of accreditation, as well as the date from which the accreditation is effective, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.



Contd./...





PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wanadongri, Hingna Road,
 NAGPUR - 441110

4. The accreditation status of the above programmes is subject to change on periodic review, if needed, by the NBA. It is desired that the relevant information in respect of accredited programmes as indicated in the Table in paragraph 2 above, appears on the website and information bulletin of your College.

5. The accreditation status awarded to the programmes as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

Yours faithfully,


(Dr. Anil Kumar Nassa)
Member Secretary

Note: Under Para 3.4.4 of Chapter 3 of the Manual of Accreditation, 2013, it is provided that the application for accreditation received in an academic year will be considered in next academic year. Therefore, the institute may apply if it so desires, in the academic year 2014-15 for full accreditation of the provisionally accredited programme (s) in order to have continuation of accreditation.

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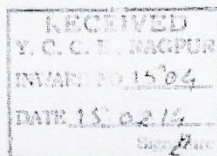
1. The Secretary,
Higher & Technical Education & Employment Department
Govt. of Maharashtra, Mantralaya,
Mumbai-400032 (MS)


2. The Director
Directorate of Technical Education
Govt. of Maharashtra
3, Mahapalika Marg,
Mumbai-400001 (MS)

3. The Registrar
Rashtrasant Tukadoji Maharaj Nagpur University
Ravindra Nath Tagore Marg,
Nagpur-440001, Maharashtra

4. Accreditation File

5. Master Accreditation file of the State.



15-02-14
Principal

Administrative Officer




PRINCIPAL
Yeshwantoo Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620, 2436 0654 Telefax: +91 11 2436 0682



File No. Z8-194/2010-NBA

Date: 17.10.2013

To

The Principal/Director
Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering,
Hingna Road, Wanadongri,
Nagpur - 441 110, (M.S.)

Sub: Accreditation status of programmes applied by Nagar Yuwak Shikshan Sanstha's, Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur - 441 110, (M.S.)

Dear Sir/Madam

This has reference to your application dated 11.01.2012 seeking accreditation of National Board of Accreditation to the UG Programmes offered by your institution.

2. An Expert Committee conducted an on-site evaluation of the programmes during 12-04-2013 to 14-04-2013. The report submitted by the Expert Committee was considered by the Engineering Accreditation Evaluation Committee (EAEC) at its meeting held on 06.09.2013. The Sub-Committee of Academic Advisory Committee on Engineering considered the recommendations of EAEC at its meeting held on 11.09.2013. The Executive Committee of the National Board of Accreditation considered the recommendations of the Sub-Committee of Academic Advisory Committee on Engineering at its meeting held on 18.09.2013. The Executive Committee approved the accreditation status of the programmes as given in the table below:

Sl. No	Name of the Programmes (UG)	Accreditation Status	Period of validity w.e.f. 18.09.2013	Remarks
(1)	(2)	(3)	(4)	(5)
1	Civil Engineering	Provisionally Accredited	2 years	Accreditation Status granted is valid till the programme has the approval of the Competent Authority or the period given in Col. '4', whichever is earlier.
2	Electrical Engineering	Provisionally Accredited	2 years	
3	Electronics & Telecommunication Engineering	Provisionally Accredited	2 years	

3. The accreditation status awarded to the programmes as indicated in the above table does not imply that the accreditation has been granted to Nagar Yuwak Shikshan Sanstha's, Yeshwantrao Chavan College of Engineering, Nagpur, (M.S.) as a whole. As such the institution should nowhere alongwith its name including on its letter head etc., write that it is accredited by NBA because it is programme accreditation and not institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the programme(s) accredited, level of programmes (UG or PG as the case may be) and the period of validity of accreditation, as well as the date from which the accreditation is effective, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

4. The accreditation status of the above programmes is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programmes as indicated in the table in paragraph 2, appears on the website and information bulletin of your institution.

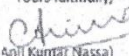
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Chavan
PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

5. The accreditation status awarded to the programmes as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.
6. Copies of the Comprehensive Report submitted by the Chairman of the Expert Committee along with the detailed reports submitted by the Expert Team which visited your institution for the programmes evaluated are enclosed for reference and to take necessary action to overcome the shortcomings, if any, pointed out by the Expert Team.
7. If the institution is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

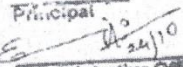
Yours faithfully,

 (Dr. Anil Kumar Nassa)
 Member Secretary

Note: Under Para 3.4.4 of Chapter 3 of the Manual of Accreditation, 2013, it is provided that the application for accreditation received in an academic year will be considered in next academic year. Therefore, the Institute may apply if it so desires, in the academic year 2014-15 for full accreditation of the provisionally accredited programme(s) in order to have continuation of accreditation.

- Encls: 1. Copy of Report of Chairman of the Visiting Team
 2. Copies of Expert Reports of the Visiting Team.

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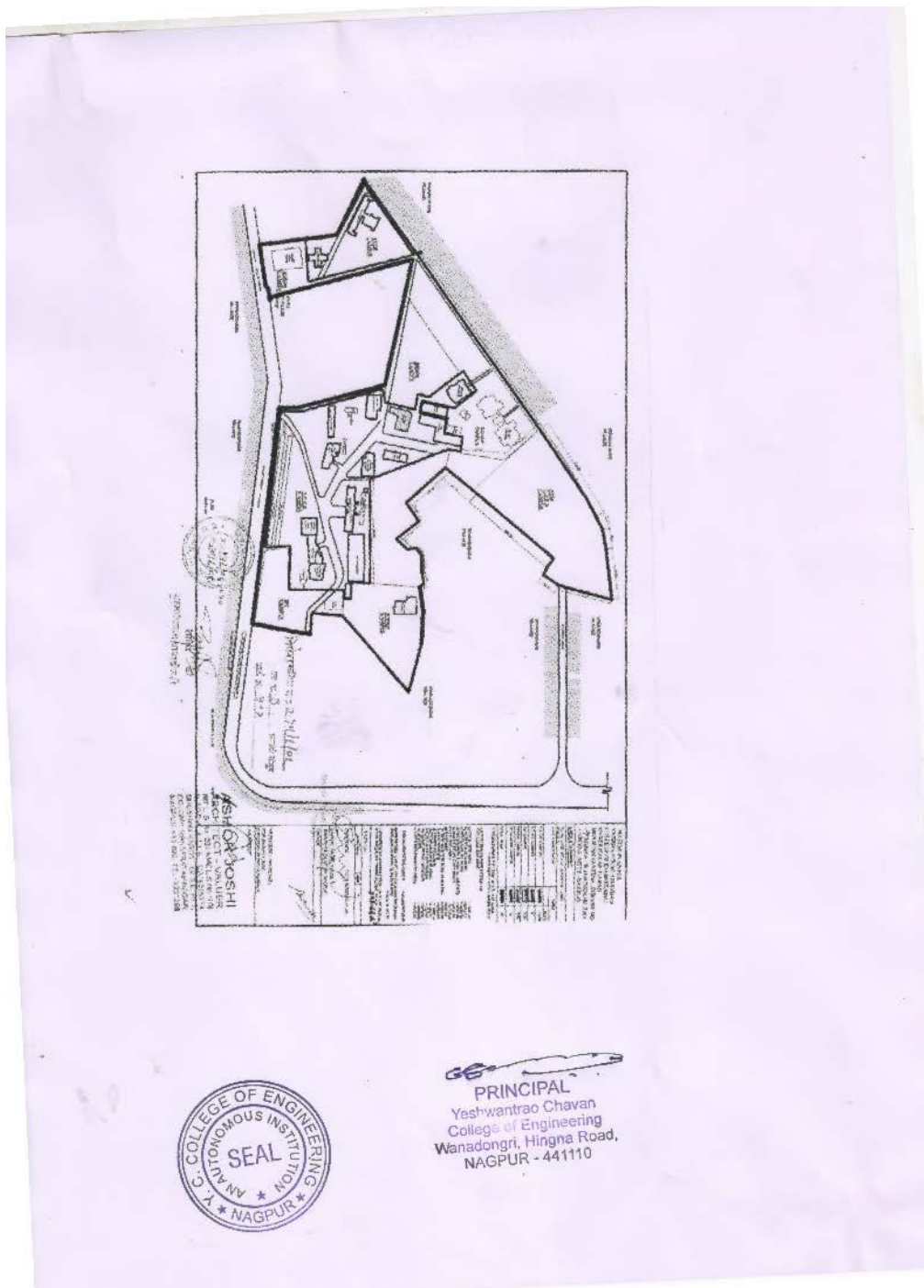
1. The Secretary,
 Higher & Technical Education & Employment Department
 Govt. of Maharashtra, Mantralaya,
 Mumbai-400 032
2. The Director
 Directorate of Technical Education
 Govt. of Maharashtra
 3, Mahapalika Marg
 Mumbai-400 001 (MIS)
3. The Registrar
 Raxtrasanti Tukadoji Maharaj Nagpur University
 Ravindra Nath Tagore Marg,
 Nagpur-440003, Maharashtra
4. Member Secretary, AICTE
 All India Council for Technical Education
 7th Floor, Chanderniok Building
 Janpath, New Delhi-110 001
5. Accreditation File
6. Master accreditation file of the State.

Principal

 Administrative Officer




PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wanadongri, Hingna Road,
 NAGPUR - 441110

g) Master Plan of the College



PART - C

CRITERIA-WISE INPUTS

C. Criteria-Wise Inputs

Criterion I: Curricular Aspects

1.1 Curriculum Design and Development

1.1.1 How are the institutional vision / mission reflected in the academic programmes of the College?

While framing the syllabus, focus is given on integration of the current educational needs of the profession and the anticipated needs arising out of the fast changing national and international technological scenario. PEOs (Programme Educational Objectives) and POs (Programme Outcomes) are defined to map the mission of the institute. The curriculum is developed based on PEOs and POs.

Process of Academic excellence towards attainment of vision and mission:

- With achievement of academic autonomy the syllabus is upgraded to the level of IIT's and higher level institutes and also to suit the needs of industries.
- Continuous monitoring of all students.
- Support for academically weak students to cope with faster learning students through remedial coaching.
- The faculty members of all departments are actively participating in R&D and collaborative research activities with industries through MoUs.
- Societal services are initiated by students to take technology closer to the community and there by providing solutions to the rural problems.
- All the academic programmes of the college under academic autonomy have implemented the Outcome Based Education (OBE) and defined Programme Educational Objectives (PEO) which are achievable and consistent with the vision and mission of the college.
- Curriculum design for every course includes defining of Programme Outcomes (PO) in line with PEO's. Course Outcomes (CO) are formulated to cover the POs.
- Awareness talks, expert lectures from national and international industry / R&D personnel, are conducted on a regular basis to familiarize current trends in technology and research.
- Develop self-learning and life-long learning interests through projects and industrial visits.

Field visits, extension activities, and community services are taken up to provide awareness of professional, ethical and societal responsibilities.

1.1.2 Describe the mechanism used in the design and development of the curriculum? Give details on the process. (Need Assessment, Feedback, etc)

The curriculum is revised once every in a year by the Board of Studies of all departments and are approved by academic council. BoS includes a meritorious alumnus, industry representative, subject expert from academia and department faculty. The elective subjects are designed to cater to the changing needs of the society and industry.

The curriculum is developed based on PEOs and POs. The curriculum thus framed is formally approved in the Academic council and Board of Management meeting. The college has adopted credit system for teaching and evaluation of its academic programmes. Each programme is associated with a fixed number of credits. The programs are defined by their total credit requirements. The curriculum development is based on:

- a) Updating of the syllabi based on current knowledge, national and international developments, relevance of new ideas, concepts and knowledge of the concerned discipline
- b) The books by reputed authors (both Indian and Foreign), reputed international and national journals and syllabi of reputed institutions like IISc, IIT and NITs are referred while framing the syllabi.
- c) The draft syllabi are communicated to the committee members for review and endorsement by departmental committee and college authorities.

The BoS of all the academic programmes have taken steps to make changes in the core areas like curriculum development, assessment strategies, and delivery methods as per the OBE system. OBE covers all the aspects like planning, implementation, assessment/evaluation and continual quality improvement.

The curriculum is framed based on the vision and mission of the college, objectives of the departments, professional bodies, curriculum of reputed universities and competitive exams. The departmental committee will formulate their PEOs / POs. Board of Studies meeting will be held and the curriculum will be reviewed. Later the approval of Academic council and BoM is taken. The same curriculum is adopted throughout the semester

1.1.3 How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?

Involvement of industry, research bodies and civil society in the curriculum design is done at different levels through Board of Management, Academic Council, Board of Studies & the various stakeholders. Curriculum Updation is carried out by involving industry/subject experts to strengthen stated Program Evaluation Objectives (PEOs). Curriculum has been designed in accordance with the current needs of the industry comprising basic science, HSS, professional cores and electives, meeting the PEOs of the department. Laboratory assignments and guidelines for carrying out projects have been prepared to strengthen PEOs. Mathematical modeling subject is introduced to enhance modeling skills of students which will enable them to apply the same in real life situations. More laboratories are introduced in each branch to give practical/ hands on training to students.

Involvement of stakeholders: Suggestions from the stakeholders are incorporated in curriculum design have led to improvement in placement of the students and social activities. Research activities related to societal needs have increased during the recent years.

The institute has MoUs for teaching learning activities and placements with leading industries as mentioned.

SN	Name of Industry/Company	Particulars
1	Tata Consultancy Services Ltd. Mumbai	Best Student Award, Best Project Award, Faculty Development Program , Workshop for students, Internship, Recruitment
2	Infosys – Campus Connect	Student/Education, Faculty Enablement Programme, Infosys Courseware, Special Lectures for students, Train the Trainer
3.	Shanghvi & Associates, Mumbai	Faculty Devp. Program, Student Devp. Program, Design & Research work etc.
4.	Persistent Systems Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
5.	Victrans Engineers, Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
6.	InfoCepts Technologies Pvt. Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
7.	iLabs Research Pvt. Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
8.	Powerdeal Energy System (I) Pvt. Ltd., Nashik	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment

9.	Cipher Technologies, Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
10.	Smart Cloud Infotech Pvt. Ltd., Pune	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
11.	SAP Control Systems & Engineers Pvt. Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
12.	Ramkrishna IT Systems, Pune	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
13.	Central Institute for Research on Cotton Technology, Nagpur	Joint Consultancy projects, Research, STTP, Seminars, Workshops, Conference, Training in relation to ginning
14.	Vidharbha Industries Association, Nagpur	Sharing Resources, Joint Projects, Community Development, Collaborative Consultancy
15.	ADCC Infocad Pvt. Ltd., Nagpur	Community Development, Quality of Education, Training to Students, Live Projects, Internship
16.	NECO Group of Companies, Nagpur	Student Training & Internship, Joint Projects, Exchange of Faculty, Consultancy, Testing & Research
17.	Asian Streck Metals, Nagpur	Student Training & Internship, Joint Projects, Exchange of Faculty, Consultancy, Testing & Research
18.	Shreyas Quality Management Systems, Nagpur	Training, Research & Development, Resources for mutual academic & professional benefits, Project Work,
19.	GlobalLogic India Pvt. Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
20.	Sunil HiTech Engineers Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
21.	Vidarbha Industries Power Ltd., (Reliance Power), Nagpur	Works for students, Faculty Development / Management Development Programmes, Best Student Award, Best Student Project Awards, Intership etc.
22.	HERE Nokia	Using Nokia Community Map Editor Tool

1.1.4 How are the following aspects ensured through curriculum design and development?

- Employability
- Innovation
- Research

Employability: The curriculum is framed on par with industry requirements. The college conducts skill oriented certificate courses and value added programmes for better employability of students. Students regularly undergo additional training in personality development for better employability. Additional training programmes are designed and being conducted by training and placement cell of the college to improve the soft skills of students for better employability. The growth of IT and service sectors also increased scope of student employability. Industry based projects at the final year also help some of the students to get better employability.

Innovation: Every department conducts co-curricular activities yearly like technical paper presentation, project exhibitions, poster presentations, debugging of soft skills etc.,. The students from all the departments are actively participate in these activities to present their innovative ideas.

Research: The Internships/Seminars/Project Works of the curriculum gives an opportunity for the students to carry out some research based projects which may lead to publications in conferences/journals. Many programmes have the concept of research based term papers which are part of curriculum.

1.1.5 How does College ensure that the curriculum developed addresses the needs of the society and have relevance to the regional / national developmental needs?

In this, it comprehends the following aspects which are given below:

(a) **Intellectual**

The college is committed to sustaining high quality education.

(b) **Academics**

The college is committed to the principle of grace in life through learning to ensure the growth of human resource of the country.

(c) **Training including Value Added Courses**

Developing effective technical education in students in the process of nation building.

(d) Scholarships

As per its objectives the Society, college is committed to provide scholarship to the intelligent, poor and needy students. The scholarships are offered by educationist, philanthropists and state agencies.

(e) Equity

The college is committed to providing education to all irrespective of considerations of caste, creed, religion and the social strata by providing quality education for overall growth and development of general. The college follows state reservation policy in favor of the SC/ST and OBC.

(f) Self Development

- To improve communication skills
- To enable the students to solve the complexities of life

(g) Community and National Development

The college is committed to

- Inculcate a sense of social responsibility towards society
- Contribute to the national cause of human resources development i.e. contributing for Flag Day, Blood donation, celebrating Republic Day, Independence Day, Teachers Day and festivals of all communities etc.

(h) Issue of Ecology and Environment

- The college spreads awareness about and enriches environment by saving natural resources.
- Our campus is an eco-friendly lush green area which is a tobacco free campus.

(i) Value Orientation

The college has been developing value-based holistic vision by imparting moral education viz., instilling values of respect for elders, honesty loyalty, and equality of opportunity by examples and practical actions motivated through regular lectures by faculties and guests.

- Laying stress on the need for peace in life by providing yoga classes to students in the first year itself.
- Pursuing hidden Curriculum for Organizing cultural activities related to values in society, family and individual life.

(j) Global Trends and Demands

The college makes endeavor to establish its presence in the market, through well conceived instructional strategies, meticulous planning and execution of projects.

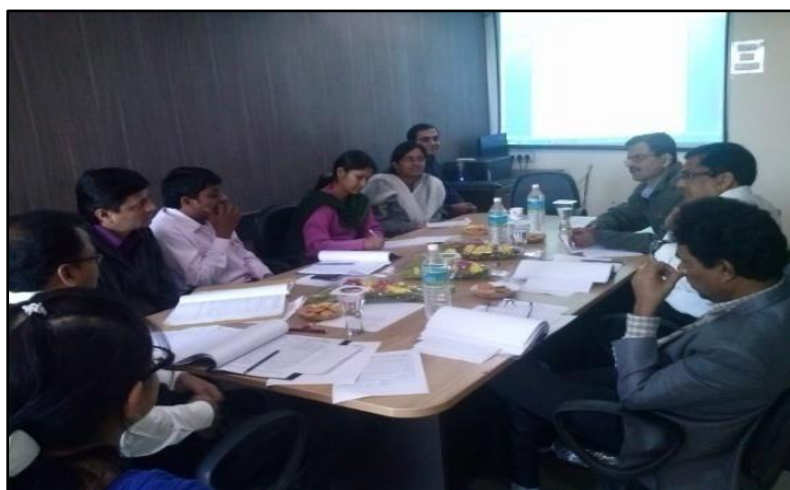
It remains committed with the cause of

- Imparting quality education at the grass root level; theory as well as practice.
- Intensively developing the communication skills with the help of advanced technological skills.
- Using Information and Communication Technology the teaching-learning process to enhance effective communication on the part of teacher and understanding on the part of students.

1.1.6 To what extent does the College use the guidelines of the regulatory bodies for developing or restructuring the curricula? Has the College been instrumental in leading any curricular reform which has created a national impact?

The college has used the template given in the model curriculum prepared by AICTE to frame the Scheme of Examination. The template was customized to suit the requirement of the industry as perceived by the college and also deliberated by the experts in various Curriculum Development Workshop (CDW) and other statutory bodies.

The college follows the guidelines of UGC, AICTE and alike regulatory bodies for development and restructuring of curricula. Suggestions acquired from Members of regulatory bodies are considered.



Curriculum Development Workshop of IT Department

1.2 Academic Flexibility

1.2.1 Give details on the following provisions with reference to academic flexibility

- a. Core / Elective options
- b. Enrichment courses
- c. Courses offered in modular form
- d. Credit transfer and accumulation facility
- e. Lateral and vertical mobility within and across programmes and courses

a. Core / Elective options:

The college has well balanced core and elective courses in each program. Each Programme is designed keeping in view of fast changing technologies, industry requirement, smooth progression to higher studies and the requirement of statutory bodies. Each programme has mandatory core courses and selected elective courses. Electives are chosen based on the students interest, industry requirements and employable value of the subject.

b. Core Courses:

Core courses are carefully designed as per programme objectives as well as the mission of the department and the college. It ensure that it fulfill the new as well as market demand based requirement.

c. Elective options:

Varieties of elective options are offered in each programme according to the student's interest. These electives start from 5th Semester to 8th Semester BE.

Elective courses offered by various departments.

Course Code	Professional Elective Course	Course Title
CV315	PE-1	PE1: Water Treatment
CV316	PE-1	PE1: Prestressed Concrete
CV317	PE-1	PE1: Building Services
CV320	PE-2	PE2: New Engineering Materials
CV321	PE-2	PE2: Advanced RCC
CV322	PE-2	PE2: Water Power Engineering
CV410	PE-3	PE3: Traffic Engineering
CV411	PE-3	PE3: Advanced Hydraulics

CV412	PE-3	PE3: Structural Optimization
CV413	PE-3	PE3: Natural Resources Management
CV427	PE-4	PE4: Waste Water Treatment
CV428	PE-4	PE4: Earthquake Engineering
CV429	PE-4	PE4: Matrix Analysis of Structures
CV432	PE-5	PE5: Water Transmission and Distribution Systems
CV433	PE-5	PE5: Advanced Steel Design
CV434	PE-5	PE5: Maintenance and Rehabilitation Engineering
CT320	PE-1	PE1: Computer Graphics
CT321	PE-1	PE1: Computer Graphics Laboratory
CT322	PE-1	PE1: Realtime Systems
CT323	PE-1	PE1: Realtime Systems Laboratory
CT324	PE-1	PE1: Mobile Communication
CT325	PE-1	PE1: Mobile Communication Laboratory
CT405	PE-2	PE2: Embedded Systems
CT406	PE-2	PE2: Neural Network & Fuzzy Logic
CT407	PE-2	PE2: Ad-hoc Wireless Networks
CT408	PE-3	PE3: Cloud Computing
CT409	PE-3	PE3: Operations Research
CT410	PE-3	PE3: Artificial Intelligence
CT418	PE-4	PE4: Digital Image Processing
CT419	PE-4	PE4: Digital Image Processing Laboratory
CT420	PE-4	PE4: Pattern Recognition
CT421	PE-4	PE4: Pattern Recognition Laboratory
CT422	PE-4	PE4: Mobile Operating Systems
CT423	PE-4	PE4: Mobile Operating Systems Laboratory
CT 430	PE-5	PE5: Business Intelligence and its Applications
CT431	PE-5	PE5: Business Intelligence and its Applications Laboratory
CT432	PE-5	PE5: Software Project Management
CT433	PE-5	PE5: Software Project Management Lab.
CT434	PE-5	PE5: Speech Processing
CT435	PE-5	PE5: Speech Processing Lab.
EE303	PE-1	PE1: Transmission Lines & Wave Guides

EE304	PE-1	PE1: Power Electronics
EE305	PE-1	PE1: Advanced Instrumentation
EE401	PE-2	PE2: Embedded System
EE402	PE-2	PE2: Embedded System Laboratory
EE403	PE-2	PE2: Digital CMOS Circuits
EE404	PE-2	PE2: Digital CMOS Circuits Laboratory
EE405	PE-2	PE2: Algorithm & Data Structure
EE406	PE-2	PE2: Algorithm & Data Structure Laboratory
EE414	PE-3	PE3: Computer Communication Network
EE415	PE-3	PE3: Operating System Concepts
EE416	PE-3	PE3: Biomedical Instrumentation
EE417	PE-4	PE4: Soft Computing
EE418	PE-4	PE4: Soft Computing Laboratory
EE419	PE-4	PE4: Analog VLSI Design
EE420	PE-4	PE4: Analog VLSI Design Laboratory
EE421	PE-4	PE4: Optical Communication
EE422	PE-4	PE4: Optical Communication Laboratory
EE423	PE-5	PE5: Object Oriented Programming
EE424	PE-5	PE5: Object Oriented Programming Laboratory
EE425	PE-5	PE5: Wireless Communication
EE426	PE-5	PE5: Wireless Communication Laboratory
EE427	PE-5	PE5: Digital Image Processing
EE428	PE-5	PE5: Digital Image Processing Laboratory
EL311	PE-1	PE1: Power Electronics - II
EL313	PE-1	PE1: Alternative Energy Sources
EL314	PE-1	PE1: Biomedical Instrumentation
EL315	PE-1	PE1: Control System - II
EL409	PE-2	PE2: Optimisation Technique
EL410	PE-2	PE2: FACTS Devices
EL411	PE-2	PE2: Electrical Drives - II
EL421	PE-3	PE3: Power Quality Conditioning and Monitoring
EL422	PE-3	PE3: Power System Operation and Control
EL423	PE-3	PE3: Transients in Power System
EL424	PE-4	PE4: EHVAC-HVDC Transmission

EL425	PE-4	PE4: Electrical Power Utilization
EL426	PE-4	PE4: Digital Signal Processing
EL427	PE-5	PE5: Artificial Intelligence based Systems
EL428	PE-5	PE5: Power Plant Instrumentation
EL429	PE-5	PE5: Electrical Distribution System
ME401	PE-1	PE1: Tool Design
ME402	PE-1	PE1: Material Handling Systems
ME403	PE-1	PE1: Refrigeration & Air Conditioning
ME404	PE-1	PE1: Engineering Of Plastics
ME405	PE-1	PE1: Project Evaluation & Management
ME406	PE-1	PE1: Finite Element Methods
ME408	PE-2	PE2: Synthesis of Mechanism
ME409	PE-2	PE2: Finance & Cost Management
ME410	PE-2	PE2: Renewable Energy System
ME411	PE-2	PE2: Artificial Intelligence
ME412	PE-2	PE2: Maintenance Management
ME415	PE-3	PE3: Vibration
ME416	PE-3	PE3: Vibration Lab.
ME417	PE-3	PE3: CIM
ME418	PE-3	PE3: CIM Lab.
ME419	PE-3	PE3: I.C. Engines
ME420	PE-3	PE3: I.C. Engines Lab.
ME437	PE-4	PE4: Industrial Fluid Power
ME438	PE-4	PE4: Industrial Fluid Power Lab.
ME439	PE-4	PE4: CNC & Robotics
ME440	PE-4	PE4: CNC & Robotics Lab.
ME441	PE-4	PE4: Vehicle Engineering
ME442	PE-4	PE4: Vehicle Engineering Lab.
ME443	PE-4	PE4: MIS
ME444	PE-4	PE4: MIS Lab.
ME445	PE-4	PE4: Mechatronics
ME446	PE-4	PE4: Mechatronics Lab.

ME451	PE-5	PE5: Stress Analysis
ME452	PE-5	PE5: Design of Experiments and Taguchi Methods
ME453	PE-5	PE5: Value Engineering
ME454	PE-5	PE5: Lean Sigma
ME455	PE-5	PE5: Product Design And Development
ME456	PE-5	PE5: Advanced Manufacturing Techniques
ME457	PE-5	PE5: Power Plant Engineering
ME458	PE-5	PE5: Machine Tool Design
ME459	PE-5	PE5: Industrial Safety
ME460	PE-5	PE5: Advance Welding Techniques
ET307	PE-1	PE1: Algorithm & Data Structure
ET308	PE-1	PE1: Algorithm & Data Structure Lab
ET309	PE-1	PE1: Object Oriented Programming
ET310	PE-1	PE1: Object Oriented Programming Lab
ET311	PE-1	PE1: Discrete Structures
ET312	PE-1	PE1: Discrete Structures Lab
ET319	PE-2	PE2: Embedded System
ET320	PE-2	PE2: Embedded System Lab
ET321	PE-2	PE2: Digital System Design
ET322	PE-2	PE2: Digital system Design Lab
ET323	PE-2	PE2: TV and Video Engineering
ET324	PE-2	PE2: TV and Video Engineering Lab
ET405	PE-3	PE3: Optical Communication
ET406	PE-3	PE3: Optical Communication Lab
ET407	PE-3	PE3: Microwave Integrated circuit
ET408	PE-3	PE3: Microwave Integrated circuit Lab
ET409	PE-3	PE3: Communication Networks
ET410	PE-3	PE3: Communication Networks Lab
ET419	PE-4	PE4: Power Electronics
ET420	PE-4	PE4: Wireless & Mobile Communication
ET421	PE-4	PE4: Satellite Communication
ET422	PE-5	PE5: Fuzzy Logic & Neural Networks
ET423	PE-5	PE5: Fuzzy Logic & Neural Networks Lab

ET424	PE-5	PE5: RF Circuit Design
ET425	PE-5	PE5: RF Circuit Design Lab
ET426	PE-5	PE5: Multimedia Communications
ET427	PE-5	PE5: Multimedia Communications. Lab
IT307	PE-1	PE1: Computer Graphics
IT308	PE-1	PE1: Mobile Communication
IT309	PE-1	PE1: Embedded Systems
IT310	PE-2	PE2: Management Information System
IT311	PE-2	PE2: Artificial Intelligence
IT312	PE-2	PE2: Advanced Computer Architecture
IT319	PE-3	PE3: Enterprise Resource Planning
IT320	PE-3	PE3: Digital Image Processing
IT321	PE-3	PE3: Coding Standards & Technical Documentation
IT405	PE-4	PE4: Pattern Recognition
IT406	PE-4	PE4: Distributed and Object Oriented Databases
IT407	PE-4	PE4: Real Time Systems
IT413	PE-5	PE5: Digital Signal Processing
IT414	PE-5	PE5: Digital Signal Processing Lab.
IT415	PE-5	PE5: Neural Networks and Fuzzy Logic
IT416	PE-5	PE5: Neural Networks and Fuzzy Logic Lab.
IT417	PE-5	PE5: TCP/IP
IT418	PE-5	PE5: TCP/IP Lab
IT419	PE-5	PE5: Software Testing
IT420	PE-5	PE5: Software Testing Lab
IT421	PE-6	PE6: Distributed Systems
IT422	PE-6	PE6: Network Security
IT423	PE-6	PE6: Human Computer Interaction

In each program, every student has to opt for two free electives; the courses offered by department other than parent department of the student.

Course Code	Free Elective Course	Course Title
EL316	FE-1	FE1: Renewable Energy Generation Systems
EL317	FE-1	FE1: Renewable Energy Generation Systems
EL320	FE-1	FE1: Applications of Electrical Machines
EL321	FE-1	FE1: Applications of Electrical Machines Lab.
ET331	FE-1	FE1: Microcontroller & Embedded Systems
ET332	FE-1	FE1: Microcontroller & Embedded Systems Lab
ET333	FE-1	FE1: Principals of Communication Engineering
ET334	FE-1	FE1: Principals of Communication Engineering Lab
ME315	FE-1	FE1: Operations Research Techniques
ME316	FE-1	FE1: Operations Research Techniques Lab.
ME317	FE-1	FE1: Automobile Engineering
ME318	FE-1	FE1: Automobile Engineering Lab.
EE320	FE-1	FE1: Data Acquisition & Signal Conditioning
EE321	FE-1	FE1: Data Acquisition & Signal Conditioning Lab.
EE322	FE-1	FE1: Microprocessor & Microcontroller
EE323	FE-1	FE1: Microprocessor & Microcontroller Laboratory
CT326	FE-1	FE1: SQL / PLSQL
CT327	FE-1	FE1: SQL / PLSQL Laboratory
CT350	FE-1	FE1: Linux Operating System
CT351	FE-1	FE1: Linux Operating System Laboratory
IT322	FE-1	FE1: Web Technology
IT323	FE-1	FE1: Web Technology Lab
CV325	FE-1	FEI : Environmental Management
CV326	FE-1	FEI : Environmental Management
CV327	FE-1	FEI : Building Services Engineering
CV328	FE-1	FEI : Building Services Engineering
GE415	FE-2	FE2: Probability Theory & statistical Inference
EL412	FE-2	FE2: Electrical Energy Audit and Safety
EL413	FE-2	FE2: Utilisation of Electrical Energy
ET411	FE-2	FE2: Soft Computing
ET412	FE-2	FE2: Industrial Instrumentation
ME429	FE-2	FE2: Total Quality Management
ME430	FE-2	FE2: Reliability Engineering
EE411	FE-2	FE2: Fuzzy Logic & Neural Network
EE429	FE-2	FE2: Basic of Analog & Digital Communication Systems

CT411	FE-2	FE2: Multimedia and Animation
CT412	FE-2	FE2: Current Trends and Technologies
IT408	FE-2	FE2: Applications of Computer Networking
CV418	FE-2	FE2: Elements of Earthquake Engineering
CV419	FE-2	FE2: Air Pollution & Solid Waste Management

a) Enrichment courses:

Enrichment courses are offered in certificate form on various emerging areas in each department. These courses normally offered to the interested students beyond working hours. In addition to these certificate course, department also arranges workshops and guest lecture for benefits of students on various areas to enrich the knowledge over and above the curriculum.

b) Courses offered in modular form

The college doesn't offer any courses in modular form but in lieu of that various add-on certificate course and training is provided time-by-time as the students demand comes.

c) Credit transfer and accumulation facility

The college does not provide either transfer / accumulation facility of credits in any programme for the students. The academics obtained by such students at the previous institution are transferred in consultation with the affiliating university.

d) Credit transfer and accumulation facility:

When a student desires to switch over from University pattern to autonomous pattern, then CGPA of such student is calculated as per the absolute grading system.

$$\text{CGPA} = (\text{Average of \% of earlier semesters} / 10) + 0.75$$

When a student switches from any University affiliated engineering college to this college, then student has to undertake and clear all those additional courses offered in previous semester of that programme in Autonomous pattern of the college which are not covered in the corresponding University curriculum. Such additional courses are treated as audit courses and he/she has to earn 'Satisfactory Grade' in those courses so as to have equivalence between these two systems.

Also, student has to clear all the backlog subjects by passing University examination in those subjects and earn 'Satisfactory' grade for the additional course/s in the college, which is/are not covered in university curriculum, prior to switch over.

Provided further, if a student(s) seek(s) transfer from an autonomous college to the college he/she has to clear all the backlogs of his/her parent institute and all those additional courses offered in previous semester/s of the college.

(e) Lateral and vertical mobility within and across programmes and courses.

There is no such facility.

Lateral and vertical mobility within and across programmes and courses:

The coursework at first year BE level is common to all the branches. The students are admitted to a particular programme right in the first year at the time of admission. However, they get an opportunity to change the programme as per their choice if the seats are available in the desired programme. The change of programme is carried out strictly on the basis of student's performance at First Year BE level examinations.

Students from University pattern, who are desirous of seeking admission to III / V / VII semesters in autonomous pattern, have to fulfill the prevailing ATKT norms of University, to become eligible for admission. However, such students have to clear backlog subjects (courses) if any. In addition to these, the students also have to register and pass new courses, if any, introduced in earlier semesters of the autonomous pattern in three attempts. The norms of absorption/equivalence shall be decided by the Academic Council.

While switching from University pattern to autonomous pattern the CGPA of such students shall be calculated as per the absolute grading system.

$$\text{CGPA} = (\text{Average of \% of earlier semesters} / 10) + 0.75$$

1.2.2 Have any courses been developed specially targeting international students? If so, how successful have they been? If 'no', explain the impediments.

No. The college has not opted for such courses since the college did not opt for admission of NRIs or international students.

1.2.3 Does the College offer dual degree and twinning programmes? If yes, give details.

No. Dual degree or twinning programmes are not offered by the college.

1.2.4 Does the College offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

The college runs all the programs on self-financing basis. There are no aided programs in the college.

Programme Level	Name of the Programme
UG (B. E.)	Civil Engineering
	Mechanical Engineering
	Electrical Engineering
	Electronics Engineering
	Electronics & Telecommunication Engineering
	Computer Technology
	Information Technology
PG (M. Tech.)	Structural Engineering
	Environmental Engineering
	Production Engineering
	CAD/CAM
	Integrated Power System
	Electronics Engineering
	VLSI Design
	Communication Engineering
	Computer Science and Engineering
	Information Technology

The admissions to UG and PG programmes are done as per the directives of the State Government and /or the affiliating University.

The fee structure of the college is approved by the Competent Authority appointed by the State Government of Maharashtra.

The educational qualifications and the salaries of teaching faculty is as per the norms of affiliating University/ State Government/ UGC/ AICTE. The appointments of teachers are done through the selection panel constituted by the RTM Nagpur university.

1.2.5 Has the College adopted the Choice Based Credit System (CBCS)? If yes, how many programmes are covered under the system?

The curriculum adopted by the college is credit based. However, there are some restrictions in place on choosing the courses.

1.2.6 What percentage of programmes offered by the College follows:

- Annual system
- Semester system
- Trimester system

All the programs offered by the college are in Semester based

- i) Annual system: **Nil**
- ii) Semester system: **100%**
- iii) Trimester system: **Nil**

1.2.7 What is the policy of the College to promote inter-disciplinary programmes? Name the programmes and what is the outcome?

There are no inter disciplinary programs offered at present.

It looks forward to offer few programmers of inter disciplinary in nature in future with the prior approval from AICTE. The college is bound to offer programmes that are specified by AICTE.

To offer inter disciplinary programs lot of ground work is required with reference to

- Market potential
- Scope for higher education
- Students and Parents attitude towards the programmes
- Availability of the nomenclature in AICTE

1.3 Curriculum Enrichment

1.3.1 How often is the curriculum of the College reviewed for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

The college aims to impart such knowledge as may be necessary for the all-round development of the character of students thereby making them capable of being better employed and at par with the highly competitive job markets. The training and placement cell of the college regularly interacts with the HR managers of companies and collects first hand information about the demands and expectations of the corporate sector regarding skill set of students. These demands of the companies are then communicated to the feedback committee which in turn formulates add on courses and extra classes which are then conducted to make up the deficiencies in the students to make them employable. The task of framing of curriculum of the college, as stated earlier is in the hands of its parent affiliating institution. The college can only enrich and organize the curriculum by supplementing it with extra, so that the students are benefited in the best possible manner.

To develop the required skills, special value added programmes are offered in the areas of Spoken English, use of computers and providing in-depth knowledge in the respective subjects. The tailor made orientations are conducted to enable the students to achieve the global standards.

The college encourages its students to take responsibility of their learning and create dynamic partnership with peers, teachers and researchers. Students contribute to the creation and maintenance of an effective learning experience by:

- Collaborating with other students in learning
- Contributing to the institution-university community and participating in life beyond the classroom
- Actively participating in discussion and debate and respecting the others' viewpoints from being reflective, creative, open-minded and receptive to new ideas

In order to keep the students abreast of the latest trends in the emerging areas and also to keep pace with the industrial needs and global competition, the curricula and syllabi are revised and enriched once in four years. However, as and when the need arises there is a provision to upgrade the curricula and syllabi. The minor revisions are considered every year and incorporated immediately. However, the formal review is done in every four years.

1.3.2 How many new programmes at have been introduced UG and PG level during the last four years? Mention details.

- * Inter-disciplinary - NIL
- * programmes in emerging areas –
 - M. Tech. VLSI Design
 - M. Tech. Computer Science and Engineering
 - M. Tech. Information Technology
 - B. E. Electronics & Telecommunication Engineering (Shift-II)
 - B. E. Electrical Engineering

1.3.3 What are the strategies adopted for revision of the existing programmes? What percentage of courses underwent a major syllabus revision?

Based on the feedback received from stakeholders the re-designing of the curriculum including re-arrangement of topics and papers, inclusion of new topics and exclusion of less important topics is done by the Board of Studies, if required.

The primary strategy adopted is to have consultations with Expert Committee and Board of Studies, comprising a university nominee, subject expert, industrialist and alumnae. The opinions/ suggestions/ recommendations are incorporated in the syllabi.

All undergraduate and post graduate programs underwent major revisions in 2010-11 when academic autonomy was introduced. The process of revamping the curricula is under progress and will be applicable to batches admitted to UG and PG programs in academic session 2014-15.

1.3.4 What are the value-added courses offered by the College and how does the College ensure that all students have access to them?

Talk in English:

The college offers a course called “Talk in English” for the students of Second Year BE. The program is implemented on following lines.

1. The program is mandatory for the students who are doing fourth semester BE in Even Term.
2. The program is conducted for 6 days from 9 am to 4 pm
3. The attendance is recorded on two occasions on each working day.
4. The course is offered to the students free of charge.
5. The nature of the course is interactive. This course helps the students to improve their communication skills in English. The advantage of the

course is the better grades in third/ fourth year BE and enhanced chances of recruitment either through on/off campus placement drives.

Campus Recruitment Training program:

During the interaction of management with the students, the students have expressed their desire to conduct the training on Group Discussions, personal interviews, aptitude tests etc which will be beneficial to them while targeting the placement/ recruitment drives on and off the campus.

The college has brought out a customized program for the students of Third Year BE during the winter/summer break. The CRT program is divided into 3 parts viz. Aptitude Development, Group Discussion and Personal Interview (GD PI) and Mock tests.

Entrepreneurship cell:

The college has already started an Entrepreneurship Development Cell (EDC) and is organizing Entrepreneurship Awareness Camp (EAC) and many other programmes to promote the spirit of entrepreneurship among the students, in association with organizations like MSME, MITCON, MCED, TIE etc.

S N	Activity	In collaboration with	Date	Beneficiaries
2014 – 15				
1	Guest Lecture on Entrepreneurship as a Career	TIE, Nagpur	16/09/2014	130
2	Entrepreneurship Awareness Drive (EAD) – 2014, a One Day Workshop	E – Cell, IIT, Kharagpur	26/09/2014	800
3	Guest Lecture on ‘Entrepreneurship: Opportunities and Challenges By Mr. Ashok Kale	Department of Electronics Engineering	24/02/2015	100
4	Guest Lecture on ‘SHIVAJI : THE MANAGEMENT GURU’ (Managerial Skills of Chhatrapati Shivaji Maharaj) by Prof. Sumant Tekade	Department of Electrical Engineering	18/03/2015	150
2013 – 14				
5	Two days’ Industrial visit to Suzlon Wind Power Plant, Motha, Chikhaldara, Distt Amravati	Suzlon Wind Farms Ltd., Pune	21-22/12/2013	35

6	Two Days Workshop on Entrepreneurship Awareness	Kherwadi Social Welfare Association, Mumbai	28-29/12/2013	150
7	Motivational Guest Lecture on 'Entrepreneurship as a Career Option'	TIE, Nagpur	29/10/2013	100
2012 – 13				
8	One day Industrial Motivation Campaign on Entrepreneurship Development	Ministry of Micro, Small and Medium Enterprise Development Institute, Nagpur	11/01/2012	100
2011 – 12				
9	One day Industrial Motivation Campaign on Entrepreneurship Development	Ministry of Micro, Small and Medium Enterprise Development Institute, Nagpur	11/02/2011	150

Apart from this all the engineering departments organize various value added course as per requirements of their students.

1.3.5 Has the College introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

The college has established a tie up with “ADCC Infocad Pvt Ltd., Nagpur” which conducts training courses to bridge the gap between education and employment. The programmes are offered at First, Second and Third Year BE level students. The students are encouraged to voluntarily enroll for this course. Few of these programmes are free of charge to students. The college regularly conducts student seminars/ talks and other activities and trains the participants in presentation and social skills. The NCC/NSS wing of the college engages the students in community development activities which motivate the students to take up the cause of Social Service.

1.4 Feedback System

1.4.1 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

YES.

- The college has mechanism to obtain feedback from current as well as outgoing students & stakeholders on curriculum. The college takes regular feedback from student, parent, industry, management & other eminent personalities in the related areas about the curriculum.
- The feedback from the current students is obtained twice a semester through online mechanism. The First feedback is to find out the way of content delivery inside the classroom / laboratory besides the institutional facilities too. The Second feedback is to ascertain whether the students have experienced any changes in the commented issues besides their opinion on institutional facilities.
- Feedbacks are obtained from the outgoing students on curriculum and worthy suggestions are communicated to the BoS.
- The feedback is also used internally to enrich the content and also fill the gaps in the curriculum.
- Informal feedback is obtained from students twice in a semester by a committee constituted by the HoD regarding course contents and teaching learning process.
- The formal (online) feedback is analyzed and communicated to faculty as well as the HoDs. If the feedback index is less than 60%, then the faculty is issued a letter and also counseled to find out reasons for less feedback. The faculty is given tips/ and motivated to perform better in remaining part of semester or succeeding semesters. If the feedback index is more than 80 % then, the faculty is given an appreciation letter.
- Alumni meets are organized to obtain their views on curriculum and training.
- Interactive sessions between the college officials and parents are regularly conducted to invite their suggestions with regard to curriculum and the training offered by the institute.
- Based on the suggestions received from the knowledgeable parents, internal meetings are conducted to identify the gaps in the

curriculum and ways of enriching the curriculum by adding extra content or conducting training programmes.

- The feedback is also sought from the employers to find out the performance of the graduands of the institution. The opinion about the curriculum is also taken from the employers.
- The college places the course structure and syllabus on institute website and invites the suggestions / comments of the faculty / departments on the curriculum.

1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods adopted to do the same - (conducting webinar, workshop, online forum discussion etc.). Give details of the impact on such feedback.

YES.

The opinion of faculty is also sought after the completion of the course. The comments of the faculty are taken up by the Board of Studies.

The Board of Studies consists of faculty from reputed institutes like IITs, IISc, NIT's, HBNI and other similarly reputed institutions as well as representation from the industry. On each BoS, a meritorious alumnus is also nominated. The Vice Chancellor of RTM Nagpur University also nominated one member on the BoS. The suggestions and comments are incorporated in the subsequent revision of curriculum.

The Curriculum Development Workshop's (CDW) are conducted at regular interval by the respective BoS. The faculty from nationally and internationally reputed institutions and organizations are invited to participate in the CDWs.

The Curriculum developed by Board of Studies (BoS) is taken up by the Academic Council (AC), The members from academia and industry from outside the college are nominated on the Academic council. The Vice Chancellor of RTM Nagpur University nominates three members on the Academic Council.

The feedback on the curriculum is also obtained from the members of Board of Management, who are nominated by the University Grants Commission, New Delhi, and Vice Chancellor of RTM Nagpur University.

There is no formal mechanism developed to obtain feedback on curriculum from international faculty. However, their opinion is sought whenever meetings take place during international exposure tours of faculty and students, jointly hosted seminars and international advisory board.

1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum enrichment and the extent to which it is made use of.

The college gathers feedback and communication from the stake holders on curriculum. Some of the sources of feedback are:

- a) **Students:** The students are the primary and most important source of information. Informal discussions are also held from time to time to derive their response on the curriculum use. The departmental committee also interacts with the students to collect their opinion on the curriculum, the methods and extent of implementation.
- b) **Alumni:** Alumni are considered as vital source towards the development of the college. As the young engineers move to corporate fields, opinion is sought during informal conversation, questionnaire, interviews to elicit feedback about the relevance of the course content, coverage etc. and during annual alumni meetings these points are further discussed and bring in notice of BoS and AC for further consideration.
- c) **Employers:** Employers are given open option to give critical observations and suggestion on the curriculum, which is obtained through the feedback that deals with content relevance, teaching competency, classroom management, and students' participation, course duration, curricular and other activities during the short term training period as well as after joining the organizations by candidate. Department of Computer Technology is offering industry aligned professional elective courses in association with Infosys, Pune (Business Intelligence & its applications) and Globallogic Pvt. Ltd. Nagpur (Mobile Operating Systems).
- d) **Community:** Input from parents of the students and interaction with neighborhood, provide general feedback about the related curricular/ co-curricular activities. Faculty members of the college constantly interact with faculty members of other institutions, to update on curricular developments. Informal interaction of faculty members during workshop and other meetings are also utilized for the same purpose.
- e) **Other Stake Holders:** AICTE, NBA, UGC, are other stakeholders. Active interaction with them through submission of information/data asked, meetings on agenda like examination reforms, pattern of question papers, student details, etc. conferences and meetings are constantly organized and feed back is obtained. Above all evaluation is required for corrective actions. Formative evaluation is carried out during Self-Appraisal Report Process evaluation of NBA, NAAC and similar accrediting bodies.

- f) **BoS/AC/BoM:** Prominent members from reputed academic institutions/ industries in are nominated on these bodies and participate in meetings to deliberate on various issues of academic interests and the comments and suggestions are taken into consideration in the curriculum revision.

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring effective development of the curricula?

The college has a mechanism to design and develop suitable curriculum through a 'need assessment' process based on feedback from stakeholders and consultation with expert groups. More choices have been provided to the learners, in the elective papers of the UG and PG programmes in all disciplines.

Skills development through the curriculum is another quality enhancement measure adopted in the last four years.

The syllabi are revised periodically with academic experts serving as members of Board of Studies who scrutinize the content specifically at the departmental level and at the College level by the members of Academic Council. The Internal Quality Assurance Cell (IQAC) also monitors the entire process for any lacunae.

Faculty members of all disciplines attend workshops, symposia, seminars, conferences, orientation programmes and refresher courses organized at the state, national and international levels. This enables them to be abreast of the most recent developments in their disciplines. This, in turn, helps them to introduce advancements in the curriculum.

Internal Quality Assurance Cell		
Name	Department	Designation
Dr. R.D. Thakare	Electronics Engg.	Chairman
Prof. R.D. Dighade	Civil Engg.	Member
Dr. Mrs. N.M. Limaye	Chemistry	Member

Criterion II: Teaching-Learning and Evaluation

2.1 Student Enrolment and Profile

2.1.1 How does the College ensure publicity and transparency in the admission process?

The college participates in the Centralized Admission Process (CAP) of government of Maharashtra. 80% of the seats of UG programs are filled in through this process. The CAP is done throughout the state and students from the whole of Maharashtra can compete for admission to UG programs offered by the Institution. The process is split in several steps. The Government of Maharashtra ensures wide publicity through Print media and website regarding commencement of each step. Moreover the lists of students are published online and are available to all for perusal. The admission process is done in three rounds.

20% seats of the UG programmes are filled in by the college. The advertisements are released in the leading newspapers including regional language and national level, well before the admissions. The applications of the students are scrutinized and the merit list is prepared and displayed on the college website for wider publicity. The students are invited to offer the choices and select the seat in the programmes according to their rank and availability in a hall in transparent manner. The admission criteria for admission under Institutional level quota are same as that for the CAP. Each time a student opts for a seat, the score of the student and the programme he has opted is announced on the public address system and is displayed on the large screen which can be seen by all students and their parents. The seats available for admission are announced from time to time.

Similar process is adopted for admissions to PG programmes.

2.1.2 Explain in detail the process of admission put in place for UG, PG and Ph.D. programmes by the College. Explain the criteria for admission (Ex. (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common test conducted by state agencies and national agencies (v) others followed by the College?

The college participates in the Centralized Admission Process of government of Maharashtra. 80% of the seats of UG programmes are filled in through this process. The CAP is done throughout the state and students from the whole of Maharashtra can compete for admission to UG programmes offered by the college. The students are ranked according to their score in national level examination i.e. Joint Entrance Examination conducted by IIT and score at Higher Secondary School Certificate examination.

The process is split in several steps. The Government of Maharashtra ensures wide publicity through Print media and website regarding

commencement of each step. Moreover the lists of students are published online and are available to all for perusal. The admission process is done in three rounds.

20% seats of the UG programmes are filled in by the college. The advertisements are released in the leading newspapers including regional language and national level, well before the admissions. The applications of the students are scrutinized and the merit list is prepared and displayed on the college website for wider publicity. The students are invited to offer the choices and select the seat in the programme according to their rank and availability in a hall in transparent manner. The admission criteria for admission under Institutional level quota are same as that for the CAP. Each time a student opts for a seat, the score of the student and the programme he has opted is announced on the public address system and is displayed on the large screen which can be seen by all students and their parents. The seats available for admission are announced from time to time.

Similar process is adopted for admissions to PG programmes.

2.1.3 Does the College have a mechanism to review its admission process and student profiles annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

Yes, the college has a mechanism to review the admission process and student profile annually. As MS-DTE governs the engineering admission process in the state, the college follows rules, regulations and guidelines set up by the Government of Maharashtra. 80% of the seats of UG programmes are filled in through Centralized Admission Process of Government of Maharashtra. This admission process cannot be amended by the college.

However, 20% seats of the UG programmes are filled in by the college switch over to online admission process has made it more user friendly and reduced paper work involved in this process.

Publicity of the admission process and admission schedule for different UG and PG programmes, preparation of merit lists and its display on college website, document verifications process, allotment of seats as per merit list, lists of admitted students in different programmes is reviewed by Admission Committee of the college. The college authorities through admission cell are taking every possible measure to make the admission process more and more user friendly within the framework of guidelines laid down for admissions by DTE, Government of Maharashtra.

It has been observed that since last few years there is steady increase in admissions of girl students, students from economically backward class of the society.

2.1.4 What are the strategies adopted to increase / improve access to students belonging to the following categories

- * **SC/ST**
- * **OBC**
- * **Women**
- * **Different categories of persons with disabilities**
- * **Economically weaker sections**
- * **Outstanding achievers in sports and extracurricular activities**

For students from SC, ST and OBC category: Admissions are done as per Government of Maharashtra reservations policies prevailing at the time of admission. Counseling sessions are conducted for OBC/SC/ST students. Details regarding schemes of Government for financial assistance to such students are explained.

Women: Certain percentage of seats are reserved for girl students as per Government of Maharashtra reservation policy for 'girl students'.

Different Categories of persons with disabilities: There is no separate quota for students with disabilities under institute level admission process. However, there is a special quota for this category of students, seeking admissions through 'CAP' round carried out by Government of Maharashtra.

Economically Weaker Sections: Economically weaker section students are given counseling regarding various government schemes of financial assistance and also about the bank loan facility which is available from various banks to aid them for higher education. Tuition Fee Waiver Scheme (TFWS) for the students is in practice as per AICTE norms.

2.1.5 Furnish the number of students admitted in the College in the last four academic years.

UG Programme								
Programme	2012-13		2013-14		2014-15		2015-16	
	Intake	Admitted	Intake	Admitted	Intake	Admitted	Intake	Admitted
CE	120	126	180	189	180	189	180	189
ME	120	126	180	189	180	189	180	189
EL-Shift-I	120	126	120	126	120	126	120	126
EL-Shift-II	--	--	60	60	60	60	60	60
EE	120	126	120	126	120	125	120	126

ETC-Shift-I	120	126	120	125	120	125	120	124
ETC-Shift-II	60	60	60	60	60	60	60	59
CT	120	126	120	126	120	126	120	125
IT	60	63	60	63	60	63	60	63
Total	840	879	1020	1064	1020	1063	1020	1061

UG Programme					
Category	Gender	2011-12	2012-13	2013-14	2014-15
Open	Male	267	266	304	261
	Female	96	89	139	145
SC	Male	51	60	76	69
	Female	33	32	40	44
ST	Male	23	20	13	18
	Female	9	16	21	18
OBC	Male	152	175	205	227
	Female	79	90	121	126
SBC	Male	14	11	20	18
	Female	3	11	4	15
NT	Male	29	35	43	36
	Female	19	18	15	23
DT/VJ	Male	9	11	13	16
	Female	6	6	6	4
ESBC (Maratha)	Male	--	--	--	1
	Female	--	--	--	--
TFWS	Male	27	31	31	30
	Female	11	8	13	12
TOTAL	Male	572	609	705	676
	Female	256	270	359	387
	M+F	828	879	1064	1063

PG Programme								
Programme Name	2012-13		2013-14		2014-15		2015-16	
	Intake	Admitted	Intake	Admitted	Intake	Admitted	Intake	Admitted
Structural Engineering	25	25	25	25	25	25	25	25
Environmental Engineering	--	--	18	8	18	11	18	7
CAD/CAM	18	17	18	18	18	18	18	14
Production Engineering	25	14	25	23	25	18	25	15

Integrated Power Systems	18	18	18	18	18	18	18	18
Electronics Engineering	25	25	25	25	25	25	25	25
VLSI Design-I	18	18	18	18	18	18	18	18
VLSI Design-II	--	--	24	24	24	24	24	21
Communication Engineering	18	18	24	24	24	24	24	24
Computer Science and Engineering	18	18	24	24	24	24	24	19
CSE-II	--	--	24	24	24	24	24	13
Information Technology	18	18	18	18	18	15	18	6
	183	171	261	249	261	244	261	205

PG Programme					
Year	Gender	2011-12	2012-13	2013-14	2014-15
Open	Male	Not available	73	33	32
	Female		65	23	42
SC	Male		7	34	33
	Female		6	26	18
ST	Male		1	1	1
	Female		0	0	1
OBC	Male		6	70	48
	Female		9	45	40
SBC	Male		2	5	3
	Female		2	4	3
NT	Male		0	5	12
	Female		0	3	8
DT/VJ	Male		0	0	1
	Female		0	0	2
TOTAL	Male		89	148	130
	Female		82	101	114
	M+F		171	249	244

2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase / decrease.

The total sanctioned intake for UG & PG programmes is given below. As per the norms of statutory bodies the institute quota is 20% and 80% seats are filled by State Government through Centralized Admission Process (CAP Round). The details given under are against 20% Institute Level Quota.

Programme	Academic Year	ILQ Intake (20%)	ILQ Forms Sold	Demand Ratio
UG	2015-2016	204	1796	1:9
	2014-2015	204	1368	1:7
	2013-2014	204	968	1:5
	2012-2013	168	938	1:5
PG	2015-2016	55	152	1:3
	2014-2015	55	158	1:3
	2013-2014	55	539	1:9
	2012-2013	Admission Through CAP		
Ph.D.	Ph.D. programme is implemented as per the guidelines of RTM Nagpur University and is not under autonomy curriculum.			

2.1.7 Was there an instance of the College discontinuing a programme during last four years? If yes, indicate the reasons.

All the programmes approved by AICTE & DTE in respective academic year were run by the college.

2.2 Catering to Student Diversity

2.2.1 Does the College organize orientation / induction programme for freshers? If yes, give details of the duration of programme, issues covered, experts involved and mechanism for using the feedback in subsequent years.

The one-day long orientation program is conducted for the fresher students of the UG and PG programmes. The students are addressed by the following personnel of the college.

SN	Authority	Topic
1	Principal	Institutional information and general awareness
2	Dean-Academic Matters	Rules of Autonomy
3	Registrar	Administrative processes, including scholarships
4	Controller of Examinations	Evaluation Processes
5	Expert from outside the institution	Motivational speech

2.2.2 Does the College have a mechanism through which the “differential requirements of student population” are analysed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

A Induction program for newly admitted students in both UG and PG programmes is conducted at the start of the session. In this Principal, Functional Heads and HoDs interact with the students which facilitate them to capture academic requirements of students such as,

1. Conducive Teaching-Learning atmosphere
2. Academic calendar for academic activities
3. Maintenances of discipline on the campus
4. Safety of students on the campus
5. Redressal of grievances of students
6. Transparency in both academic and administrative processes
7. Help and guidance for academic requirements
8. Active Training and Placement Cell to address various placement related issues

The identified issues are addressed at the departmental as well as college level by ensuring publishing of academic calendar, constituting anti-ragging committee, Grievance redressal cell, Sexual harassment committee to ensure safety of girl students etc.

Faculty advisors are assigned to group of students to help and guide the students for their academic requirements.

To address various placement related issues college is having active Training and Placement Cell.

2.2.3 Does the College provide bridge /Remedial /add - on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

In each semester, courses which are found difficult to students are identified. The faculty is assigned to these courses for engaging extra lectures after the conclusion of the regular teaching.

The students who are admitted laterally (directly to Second Year BE after Diploma in Engineering) are taught in special classes after regular college teaching hours to strengthen their foundations and also the academic loss due to late admissions through Centralized Admission Process of State Government of Maharashtra.

To improve the language proficiency the students are offered a special course called Talk in English at III Sem. BE Level. This is a forty hours course.

To enhance the employment opportunities a special summer course entitled Campus Recruitment Training is offered after VI Sem. BE. This course runs for 80 to 120 hours during summer term.

Apart from the above programmes, each department conducts several Value Added Courses in Programme Specific Domains to bridge the gaps in academics and industries practices.

2.2.4 Has the College conducted a study on the incremental academic growth of different categories of students; - student from disadvantaged sections of society, economically disadvantaged, physically handicapped and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students.

Every department is having a mechanism to identify slow learners based on the performance of students in mid sessional examinations. These Slow Learners may belong to disadvantaged sections of the society, economically disadvantaged section of the society, physically handicapped or even general category. The college has appointed senior faculty to look into various issues faced by the students from disadvantaged section of the society. Faculty members take every possible effort for improving academic performance of these students.

Physically handicapped students are entitled for extra timings to complete their tests, sessional examinations as well as end semester examinations and also provided with services of writer to write their examinations if required.

For the students of disadvantaged section of the society as well as economically disadvantaged section of the society Book Bank facility is made available to the students belonging to scheduled castes. Such type of additional facilities with appropriate measures ensures an incremental academic growth of the students coming from these categories.

A special term called Summer Term is offered in the summer break. The students who have failed/detained in regular terms can register in summer term and complete the course work before commencement of next academic term. The backlog of the students is therefore reduced and the students can concentrate on the courses of the current terms.

Placements of Student from Disadvantaged Sections of Society.

Placement for Academic Session 2014-15								
Category/Programme	CE	ME	EL	EE	ETC	CT	IT	Total
OBC	10	22	16	33	32	30	11	154
SBC	0	0	2	4	1	1	1	09
SC	3	4	4	4	8	10	2	35
ST	0	0	0	1	0	1	0	02
VJNT	0	1	1	5	4	3	1	15
Total								212

Placement for Academic Session 2013-14								
Category/Programme	CE	ME	EL	EE	ETC	CT	IT	Total
OBC	12	11	14	22	23	21	12	115
SBC	0	0	1	0	0	4	1	06
SC	0	3	5	6	5	9	4	32
ST	0	0	1	0	0	1	0	02
VJNT	1	3	0	5	1	3	0	13
Total								168

Placement for Academic Session 2012-13								
Category/Programme	CE	ME	EL	EE	ETC	CT	IT	Total
OBC	0	11	4	9	13	13	3	53
SBC	0	2	1	2	1	1	1	08
SC	0	0	1	5	2	6	3	17
ST	0	0	0	0	0	0	0	00
VJNT	1	4	1	0	2	3	0	11
Total								89

Placement for Academic Session 2011-12								
Category/Programme	CE	ME	EL	EE	ETC	CT	IT	Total
OBC	2	21	7	24	20	14	5	93
SBC	0	0	0	1	0	1	0	02
SC	1	2	3	3	8	5	3	25
ST	0	0	0	1	0	1	0	02
VJNT	0	4	2	1	5	1	0	13
Total								135

2.2.5 How does the institution identify and respond to the learning needs of advanced learners?

The college identifies the students who are exceptionally gifted in academics. These students are mentored by the departmental as well as the college teams for excelling in extracurricular activities. The alumni of the college also mentor these students. Each student is allotted an alumnus mentor with whom the student interacts for a year. The mentor understands the needs of the student and motivates him/her to participate in nationally respected technical conferences/ competitions. The students are motivated to publish the papers in technical journals.

2.2.6 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The college understands the special needs of differently abled students. They are encouraged to take admissions in engineering programmes. The buildings have been provided with ramps, elevators and special toilets for these students. Physically handicapped students are entitled for extra timings to complete their tests, sessional examinations as well as end semester examinations and also provided with services of writer to write their examinations if required. The examination fee is waived for physically handicapped students.

2.3 Teaching-Learning Process

2.3.1 How does the College plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)

The Dean (Academic Matters) drafts the academic calendar well in advance before the commencement of the session/semester and sends it to all the functional heads like Heads of department, Controller of Examinations, Registrar etc for their comments and suggestions. The academic calendar is finalized after taking into view the suggestions given by the functional heads. The academic calendar outlines the session/ semester schedule, test schedule and examination schedule. The academic calendar is displayed on the college website and also on all departmental notice boards.

The faculty of the department studies the lists of courses for the coming semester / session. The head of the department finalizes the course allocation for the faculty members based on their choice and area of interest/expertise. The faculty before the commencement of semester prepares the lesson plan, indicating the topics to be covered lecture wise including the evaluation process for each subject and it is duly reviewed by the one of the senior faculty in the department and approved by the Head of the department.

Timetable in-charge of each department prepares the timetable as per the guidelines of respective statutory bodies for the number of credit hours for each subject prior to the commencement of the semester. Time-table is displayed in the respective department notice boards.

The students are given the course handout containing the Course objectives and outcomes, Syllabus of the course, Lecture schedule, Text books, Reference books and important URLs for the subject material, method for Teachers Assessment, Content beyond syllabus. The evaluation procedures for internal tests by each course teacher on commencement of the new session. The course handouts are also available on departmental websites which are accessed by students frequently.

The performance of the students is assessed on a continuous basis by conducting two tests per semester. In addition to the tests, assignments, mini-projects, quiz and term paper presentations are also the part of Continuous Internal Evaluation. The evaluated answer books are shown to the students and an opportunity is given to the students to discuss the evaluation with the teacher.

The teacher rectifies any error on the spot, if any. These tests carry 30 marks and 10 marks for the other components towards internal assessments. Individual faculty enters the student attendance and Continuous Internal Evaluation marks into Student Information System on day-to-day basis. The system generates the consolidated list of marks and attendance of each student.

There is complete transparency in the internal evaluation of the students. Progress (marks and attendance) is conveyed to the students and parents regularly by sending Short Messages on their mobile phones.

Evaluation of answer scripts of End Semester Examination are completed within 10-12 days and are shown to students and the results are published within 3 weeks of the conduct of the examination.

2.3.2 Does the College provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

YES, the college provides the course outline and the course schedule (Course Handout) to the students prior to commencement of the academic session. The college provides copy of the syllabus which contains the course outlines, to all the students and it is also uploaded in the departmental web site. Lesson Plan prepared for each course presents the plan of delivery of all topics in syllabus.

The delivery of teaching material is checked by the Head of the department per week and consolidated report for one month is sent to the Principal office and is discussed in the monthly meetings of the Heads of Departments. The informal feedback by the departmental committee ensures progress of content delivery and its quality.

The quality of feedback is also discussed in the formal feedbacks taken in mid and end semester.

2.3.3 What are the courses, which predominantly follow the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?

In principle, all the courses follow lecture method (chalk and board and/or audio- visual aids) providing sufficient time for interaction. In addition to the classroom interactions, following are the other methods of learning experiences provided to the students:

- Mini and Major Project
- Industrial Visit
- Field work/ Industrial Internship
- Model Presentation
- Guest Lectures
- Visiting Professor's Interaction
- Seminars/ workshops organized by departmental / college students' bodies
- Technical competitions in and outside of the college
- Term paper presentations/ Group discussions

The college has participated in a nationwide initiative by IIT, Mumbai to implement MOOCs plus flipped classroom concept in academic session 2015-16.

2.3.4 How is 'learning' made more student-centric? Give a list of participatory learning activities adopted by the faculty that contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

All courses are made student-centric by positioning stress on learning outcomes and making it more participatory and interactive. Various departmental societies have been established with an objective of tapping, nurturing and channelizing the energies of every individual student. The academic clubs of the departments organize activities to facilitate the creative academic quests of the students individually and collectively. Almost all the departments organize various co-academic and cultural events like quiz, poster-making, technical symposia, debates, etc. that help students in carving their personality. The Inter-college and inter-departmental academic programmes besides enhancing creativity bring a competitive edge to the academic endeavor of the students. The institute has Computer labs with internet facility, Wi-Fi, LCD Projectors, Smart Boards, Videoconferencing facility, and Language lab and Conference halls to develop interactive skills.

During the period of study in the 7th semester, real time projects are given to the students and both faculty and Industry/Research personnel guide them. Students perform a minimum of two laboratory courses per semester from 1st to 6th semesters. All the laboratories have excellent facilities, both hardware and software based. For the experiments, detailed instruction manuals are provided.

Faculty verifies the observation/record books which are maintained systematically. Two faculty members and one instructor are generally assigned for each practical class. CDs/DVDs for specialized topics are also made available in the departments as well as in the library.

Technical Societies and Student chapters of National/International Associations are active and students are encouraged to present technical papers at National/ International Conferences. Peer interaction is done through inter collegiate student technical symposia which are organized and conducted by students and funded by the college. During the period of stay, every department arranges many Industrial visits providing an exposure to industries.

The extensive use of technology is implemented to transfer the academic material from faculty to students and vice-a-versa through Moodle based departmental / course websites.

2.3.5 What is the College policy on inviting experts / people of eminence to provide lectures / seminars for students?

Each department arranges guest lecturers periodically addressed by the eminent persons from Industry, Academic and Research Institutions. Eminent experts of National / International repute are invited from academia /organization industries for seminar, workshop, conferences etc.

The college has in place the policy of inviting the senior academician from the reputed institutions like IITs, IISc etc to the campus under Visiting Professor Scheme for few days. The Professor teaches a topic from regular course content for 2 hours to each of 2nd, 3rd and 4th year BE and MTech students. He also delivers a lecture on a topic of interest to students and interacts with them to discuss the higher education in India and abroad, employment in research organizations, funding for research projects etc.

Civil Engineering			
2014-2015			
SN	Activity	External Experts	Date
1	Workshop on Professional Carriers after Civil Engineering	Mr. Pratik Chandrayun (IES), Sachin Manicawad	23/08/2014
2	Workshop on Advances in Concrete Technology	Er. L.K. Jain, Mr. Deven Matte, Mr. Mahesh Waghmare, K.C. Tayade, V.M. Galande, Dr. D.P. Mase	23/08/2014
3	Job Opportunities After BE Degree	Mr. Joydeep Paul Majumdar	24/12/2014
4	Guest Lecture on Steel Structure	Mr. Tejvidar Singh	24/02/2015
2013-14			
1	Guest lecture on Introduction to Planning and Management at Site	Mr. Pratik Vyas	01/08/2013
2	Interaction with students on Opportunities after Graduation, Training and Placement and Sharing Industrial Experience	Mr. Joydeep Paul Majumdar	12/08/2013
3	Guest Lecture on Antarctica Myths and Reality	Dr. Kirtikumar R. Randive	18/09/2013

4	Global Water Resources Scenario, Guest Lecture	Dr. A.D. Ghare, VNIT Nagpur	11/10/2013
5	Guest Lecture on Practical Exposure of Traffic Engineering	Mr. Ram Rewatkar, Mr. Atul Agarkar, Mr. Dilip Chitre, A.S.I., Taffice Police department	25/10/2013
6	Guest Lecture on Design Of Bridges	Mr. Jaltare Designer Artifact Project Limited	28/10/2013
7	Visiting Professor Scheme	Dr. T.I. Eldho, IIT Bombay	09/10/2013
8	Guest Lecture on GIS	Ritesh Vijay, NEERI	16/01/2014
9	Visiting Professor Scheme	Dr G. Venkatachalam, IIT Bombay	17-18/02/ 2014
10	Workshop On Industrial Motivation Campaign (IMC) On Entrepreneurship Development	Mr. C.S. Dodke, Ministry of Micro, Small and Medium Enterprises (MSME), Govt. of India	19/03/2014
11	Workshop on Group Discussion and Personal Interview	Dr. Suresh Chari Mr. Murli Krishna	22/03/2014
2012-13			
1	Future Scope for Civil Engineers in Developing Infrastructures	Mr. Pratik Vyas	03/07/2012
2	Group Discussion & Personal Interview, Guest lecture	Ms. Shilpa Kanor	01/08/2012
3	Areas and Scope of Civil Engineering, Guest Lecture	Dr. Vivek N. Nanoti	31/08/2012
4	Group Discussion and Personal Interview, Guest Lecture	Dr. S.V. Gole	28/09/2012
5	Three days Visit of Professor	Dr. G. Venkatachalam, Professor of Civil Engineering, IIT Bombay, Powai, Mumbai	30/01/2013
6	Guest lecture on Soft Skills Development	Ms. Hansalli Waghmare, Trainer from Meghe Finishing School, Nagpur	26/02/2013

7	Guest lecture on Soft Skill Development	Mr. Nishant Suryawanshi, Trainer and Corporate Educator Meghe Finishing School, Nagpur	27/02/2013
8	Workshop on Introduction to Non-Destructive Test	Mr. Sripad P. Kulkarni	08/03/2013
9	Guest Lecture on Managerial Excellence	Mr. C.S. Dodke	13/03/2013
	Professional Ethics	Mr. Ashutosh Wakhare, Money Bee Institute, Nagpur	
	Transform Indians to Transform India	Ms. Nidhi Kamdar, President of BJP, Nagpur City Yuvati Morcha	
2011-12			
1	Recent Trends in Design of Bridges	Er Chetan Pawar, Bridge Engineer, Gifford LPP,UK	09/07/2011
2	Mathematical Modeling Techniques	Dr. M.M. Mahajan, VNIT, Nagpur	16/07/2011
3	Guest lecture on Leadership with Passion	Mr. Mahendra Kakde, Ex Captain, Indian Army & Chief Executive, Clide Management Consultancy, Nagpur	04/08/2011
4	Guest lecture on Success Unlimited	Mr. Devendra Parekh, President Vidarbha Economic Development Council	17/08/2011
5	Work shop on GD/PI EXPRESS YOURSELF	Dr. Suresh Chari, MD, Chari's Institute of Personality Development	27/08/2011
6	Lecture on Career opportunities to Civil Engineering Students	Mr. R G Namdeo, Senior Manager Trans Rail Systems, Bermingham, UK	13/09/2011
7	Workshop on Remote Sensing, Slope Stability and Machine foundations	Dr. G. Venkatachalam, IIT, Bombay	12-14/01/ 2012
8	Guest Lecture on Leadership in Action	Mr. Javed Khan Rana, Past President, Nagpur Junior Chamber of Commerce	01/02/2012
9	Workshop on Fiber Reinforced Concrete	Prof. Nemy, University British, Canda, Dr. V. Ramkrishnan, USA, Er. L.K. Jain, Structural & Consultant, Nagpur, Dr. A.D. Pofale, VNIT, Nagpur	15/02/2012

Mechanical Engineering			
2014-15			
SN	Event Topic	Expert Details	Date
1	Heat Transfer	Dr. U.N. Gaitonde IIT Bombay	13/02/2015
2	Opportunities in Higher Studies	Mr. Lyod, Director ICE	21/02/2015
3	Personnel life Mentoring for Higher Studies in Abroad	Dr.Samudranil Chatterji Freelancer	16/03/2015
2013-14			
1	Hypermesh	Mr. Chaitanya Deshpande Altair Ltd. Bhopal	04/04/2014
2	Optistruct	Mr. Prasanna Joshi, CAD/CAM GURU Pune	05/04/2014
2012-13			
1	Furnace operation	Mr.Vivek Vaidya, ISPAT Industries Nagpur	11/11/2012
2	Design for Product Success	Dr. Devdas Shetty, Professor of Mechanical Engineering Director of the Engineering Application Center (EAC) University of Hardford	01/02/2013
3	Laser Manufacturing and Photonics	Prof. Tom Epps, Professor of Electrical & Computer Engineering, University of Hardford	02/02/2013
2011-12			
1	Recent trends in Material Handling Systems	Prof. B.D. Shiwalkar, VNIT Nagpur	07/09/2011
2	Self Motivation Techniques	Dr. S.V. Gole, NIT, Nagpur	13//12/2012

Electrical Engineering			
SN	Event Topic	Expert Details	Date
1	Conventional Energy	Mr. Dande MSEB	16/02/2015
2	Sub-Station Earthing	Prasad Koner, Director, Synergy Electrical Solutions, Nagpur	03/02/2015
3	Synchronous Condenser	Dr. R. M. Ramteke, VNIT Nagpur	26/03/2015

4	Earthing	Mr. V. S. Nagpurkar, Exec. Engg., MSEB	30/01/2015
5	Power Electronics Technology: An Overview	Dr. Amod Umarikar, IIT, Inore	26/03/2015
6	Role of Extra Curricular Activities	Mr. Raj Akulwar	18/08/2011
7	Gas Based Thermal Power Generation	Mr. Amol A. Kelkar	08/09/2011
8	Load management		14/09/2011
9	Wavelet based Protection	Mr. V. S. Kale	18/09/2011
10	Thermal Power Plants	Mr. Sanjeev Nagpurkar	08/02/2012
11	Soft Skill Development	Mr. Tatwawadi	10/02/2012
12	One day Workshop on PLC, SCADA & Autom	M/s. Sulaxmi, Mumbai	11/08/2011

Electronics Engineering			
2014-15			
S N	Event Topic	Expert Details	Date
1 2	Two Days Workshop on Advanced Soft computing and Optimization Techniques	Dr. Durbada Mandal, NIT, Durgapur, West Bengal	24 -25/03/2015
3	Expert session on 'Need for transformations in engineering education	Dr. Krishna Vedula Emeritus Professor, University of Massachusetts, Lowell, USA	30/12/2014
4	Engineering: A Global Profession	Dr. Pramod Vohra, Northern Illinois University, USA	24/03/2015
2013-14			
1	Workshop on SOLAR CLAN in Association with ENELEK Power	Mr. Mehul Patel, R& D Dept. Enelek Power IIT Bombay	19 -20/10/2013
2	Workshop 'Technovision 2014' on Creativity and Innovations in Engg.	Dr. Vedprakash Mishra, Dr. Yugal Rayalu, Dr. D. J. Tidke	15-16/02/2014
3	Expert Session on Data Mining & Cyber Security	Dr. Hemant Pendharkar Worcester State University, USA	10/08/2013

4	Expert Session on Research and Career Opportunities in USA	Dr. Dipankar Dasgupta, Memphis University, USA	20/12/2013
5	Intelligent Multidisciplinary Megaprojects' associated with the theme Creativity and Innovations in Engineering Education	Dr. Abhijit Gupta, Northern Illinois University, USA	14/03/2014

Electronics and Telecommunication Engineering			
2014-15			
SN	Event Topic	Expert Details	Date
1	Seminar on Basics of Robotics	Er. Ms. Minakshi Chippa	16/10/2014
2	Seminar on Career opportunities	Mr. Avinash Naidu	12/02/2015
3	Seminar on Emerging Research and Research Opportunities in India and Abroad	Mr. Shashwat Rathkanthiwar	19/12/2014
4	Seminar on Body Language, Etiquettes and Manners	Mrs. Beena Mathew	22/08/2014
2013-14			
1	Seminar on FinFET Process Modelling in VLSI Technology	Er. Rishikesh Tambulkar VIT, University	31/10/2013
2	Seminar on Microcontroller and Embedded System	Mr. Navlesh G. Dose	15/03/2014
2012-13			
1	Seminar on Microwave Office	Er. Tarun Kanade	22/02/2013

Computer Technology			
2014-15			
SN	Event Topic	Expert Details	Date
1	Seminar on Benefit of ACM India Student Chapter	Mr. Shekhar Sahastrabudhe, Regional Vice President, Maharashtra and Goa and Treasurer, ACM India	07/08/2014

2	Workshop on Cloud Computing	Mr. Sachin Kumar, IBM	12/09/ 2014
3	ACM India-Eminent Speaker Program	Mr. Arvind Benegal, VP, Persistent System Pune, Distinguished Speaker ACM India	20/03/2015
4	Industry Aligned Guest lecture by CT Alumni	Mr. Tejas Bhagwat, Project Manager, Tech Mahindra, Pune	19/12/2014
5	Nagpur Cyber Security Summit 2014 Expert Lecture on Social Media and Judiciary	Mr. Kishor Jaiswal Senior Civil Judge and Secretary DLSA (District Legal Service Authority Govt. of Maharashtra)	20/12/2014
	Expert Lecture on Cyber Law and Indian Telecom Sector	MR. Manish Shukla Additional GM & Principal, RTTC , Nagpur Regional Telecom Training Center BSNL	
5	Workshop on Python Training Programming	Mr. Prabodh Vekhande, Softbit Solutions, Nagpur	16-21/02/2105
6	Workshop Learning Emerging Technique (Latex, Android, R Business)	Mr. Manish Sengar, Mr. Pratyush Kumar, Infocept Pvt. Ltd	29/12/2014- 10/01/ 2015
2013-14			
1	How to Prepare for Campus and Personal Interviews	Mr. V Murli, Ex HR, Infosys	04/09/2013
2	Ruby on Rails	Mr. Richpal Gulati, Kunal Infotech Pvt, Ltd.	06/09/013
3	Workshop on Ethical Hacking	Ankit Fadia	22/10/2013
4	9 Beliefs of Success	Mr. Ashish Sharma, MD Platinum Education	23/10/2013
5	Sixth Sense Robotics	AKK Solutions	4-5/01/2014
6	Tips and Tricks for GATE 2014	Gateway, Nagpur	06/01/2014
7	What will you actually work on , When Step into Corporate World	Mr. Samir Karwade, YCCE, Alumni	06/01/2014
8	Coe HTML5 and CSS3 web Development workshop	Kartik Ragubathy, Learnflow Solutions	17-18/02/2014
9	NP hard and NP Complete Problem for UG Course	Dr.D.R.Sathe VNIT, Nagpur	02/04/2014

2012-13			
1	Workshop on IBM Tivoli	Mr. Ritviz , Web Tech Labs	08 –11/08/2012
2	Guest Lecture on Cyber Security	Mr. Rakshit Tandon	10/09/2012
3	Seminar on IBM TGMC Briefing	Mr. Sami A Shekh IBM	17/09/2012
4	Guest lecture on Cyber Forensic and Ethical Hacking	Mr. Srinidhi S Director Mandamus , Bangalore	23/10/2012
5	Seminar on Industrial Training	Mr. Animesh Jaipurkar Director, Learnflow Solutions, Nagpur	7/11/2012
6	Operating System	Mr.Punesh Tembhare, PCE Nagpur	28/01/2013
7	Importance of GATE	Mr. Kiran Padhye GATE Forum Trainer	7/02/2013
8	Android Workshop	Mr. Swapnil Mahhatre, Android Expertise, Concourse	9-10/03/2013
9	New Trends in Data Analytics, Integration & Business Intelligence	Mr.Mukesh Mohania ACM Distinguished Speaker, STSM and IBM Master Inventer, IBM, Software Lab	15/03/2013
10	NP Hard , NP Complete Concepts	Dr. S R Sathe VNIT, Nagpur	30/04/2013
2011-12			
1	Workshop on Teaching Engineering using Labview	Mr. Karun Jain National Instruments	28 -31/06/2011
2	National Level workshop on Cyber Security Awareness	Mr. Rakshit Tondon Delhi, Mr. Sagar Rahurkar, Pune, Mr. N. Vijayshankar, Bangalore	26/08/2011
3	Guest Lecture on how to face HR Interview - The Intricacies	Mr. Swapnil Shukla, HR Manager Wipro	03/08/2011
4	RFT/RAD	Mr. Amit Dharwal, IBM Expert Trainer	10-13/08/2011

Information Technology			
2014-15			
SN	Event Topic	Expert Details	Date
1	Guest Lecture on Carrier Opportunities & Personality Development	Mr. Rishi Chourasia	30/12/2014
2	Expert lecture on Open Source Software	Mr.Tripad Mishra	09/08/2014
3	Guest lecture on TOC	Dr.S.R.Sathe, Dean,VNIT,Nagpur	31/03/2015
4	Guest lecture on Overview of BI	Mr.Adithya Joshi	10/04/2015
5	Guest lecture on NP-Hard and Complete	Dr.S.R.Sathe, Dean,VNIT,Nagpur	26/11/2014
2013-14			
1	Guest Lecture on Applications of Data Mining In Health Care	Mr. Sushrut Popholi	07/02/2014
2	Personality Development	Mrs.Sushma Barapatra	11/3/2014
2012-13			
1	Guest Lecture on High Performance Computer Networks (Performance Modeling & Estimation)	Dr.S.R.Sathe Dean,VNIT,Nagpur	7/08/2012
2	Webinar on Parallel Architecture and Progg.	IUCEE	18/09/2012
3	Preventing Catastrophe from Sophisticated Software Sabotage	IUCEE	25/09/2012
4	IUCEE Webinar on Research Methodology	IUCEE	26/09/ 2012
5	Webinar on Compiler Design	IUCEE	4/10/2012
6	IUCEE Webinar on C and Data Structure	IUCEE	5/10/ 2012
7	Guest Lecture on Career Planning	Dr.S.V.Gole, Principal,NIT, Nagpur	17/10/2012
8	Guest Lecture on Decidable & Undesirable Problems	Dr. S.R. Sathe, Dean,VNIT,Nagpur	30/04/2013

2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.

Setting minds free, allowing them the pleasure of exploring the subject without the barrier of blind, routine teaching is the basic principle governing our teaching methodology. College has introduced innovative practices in training in addition to the lecture method to enhance academic quality.

Faculty members use E-learning - resources from National Programme on Technology Enhanced Learning (NPTEL), the e-material developed by the college (DTEL), Moodle based departmental website, working models, open course ware from national and international universities like IIT, MIT (USA) etc., animation videos which explains the process etc. for effective teaching. EDUSAT programme, Multimedia for various skills development is used.

The college also participates in flipped classroom teaching methods under the leadership of IIT Mumbai in session 2015-16.

2.3.7 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-socio guidance? If yes, give details of the process and the number of students who have benefitted.

The college has developed a mentoring system called as Teacher Guardian System. Under this system, every faculty member is assigned a group of students from each year for whom the faculty is the counselor/mentor/guide and care taker. The faculty counsels regarding academic, personal and other problems faced by the student.

Critical cases are discussed with the HoD, Deans, Principal and Parent. This mentoring system is made more effective with the use of Student Information System software, which gives information to the parents about the performance and attendance of their wards.

Type of Mentoring Done:

Professional Guidance: The students are counseled regarding professional goals, selection of career, higher education.

Career Advancement: The programs are conducted to enthuse students regarding self-employment opportunities, entrepreneurship development, morale, honesty and integrity required for career growth.

Course Work: The issues related to class room attendance and performance in Continuous assessment tests and overall performance in the current and previous semesters.

Lab Specific: The students are appraised about the regarding Do's and Don'ts in the laboratories.

Psycho-Socio Counselor:

A qualified counselor is appointed by the college to deal with the problems faced by the students in their general life which could jeopardize their academic progress. She is available on the campus on routine basis on specific days. However, she can be consulted in her chamber any time if the need arises.

2.3.8 Are there any innovative teaching approaches/methods/practices adopted /put to use by the faculty during the last four years? If yes, did they improve the learning? What methods were used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

The enthusiastic faculty members of the college aim to deliver their lectures in an effective manner to enrich the knowledge of the student's community. They continuously do research to evolve innovative teaching methodologies. Some of the innovative teaching methodologies adopted are:

- Development of smart classrooms, which are provided with LCD projector. The faculty can utilize these facilities to illustrate the concept clearly through audio/video mode.
- Use of e-resources such as NPTELs, open course ware for better content delivery.
- Use of online tools such as Moodle for evaluation etc.
- Providing industry exposure through industrial visits/ tours.
- The faculties circulate tutorial problems, assignments, lecture notes and other relevant materials to the students.
- Formation of different groups among the students and encouraging peer learning, which help the students who are academically performing poor.
- The students are given many tasks such as group assignment completion, problem solving and mini projects. These activities help the students to learn on their own through project base learning approach, about the developments, which are occurred in their field of study.

2.3.9 How does the College create a culture of instilling and nurturing creativity and scientific temper among the learners?

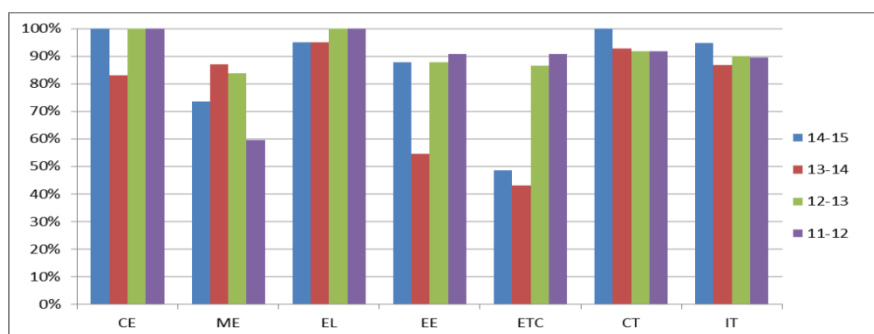
The college motivates students to carry out live projects. To refine the critical thinking among students, various group discussions, debates, exhibition, seminars, workshops are organized in which students explore new ideas. To transform them into lifelong learners & innovators students are encouraged to take initiative during vacations. They are encouraged to solve

case studies and present their analysis. The college always steps ahead in encouraging the students by inculcating new technology and innovations as per the market demands.

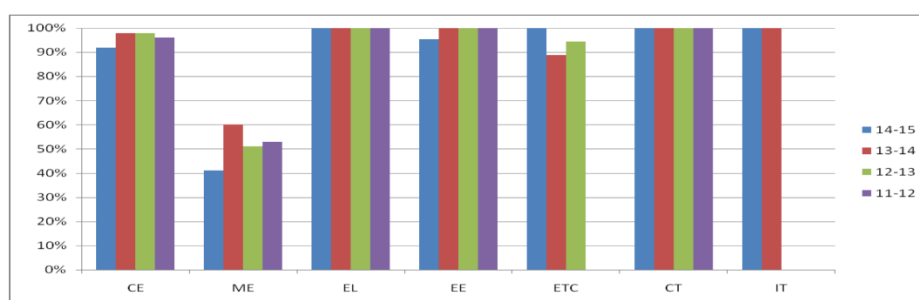
2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?

* Percentage of projects executed within the College

Year	In-House UG Projects (%)						
	CE	ME	EL	EE	ETC	CT	IT
14-15	100%	73.5%	95%	87.9%	48.6%	100%	94.7%
13-14	83%	87%	95%	54.5%	43.2%	92.7 %	86.9%
12-13	100%	83.7%	100%	87.9%	86.5%	91.9 %	90%
11-12	100%	59.5%	100%	90.9%	90.9%	91.9 %	89.5%



Year	In-House PG Projects (%)						
	CE	ME	EL	EE	ETC	CT	IT
14-15	92%	41%	100%	95.4%	100%	100%	100%
13-14	98%	60%	100%	100 %	88.8%	100%	100%
12-13	98%	51%	100%	100%	94.4%	100%	---
11-12	96%	53%	100%	100%	---	100%	---



The college considers student projects as mandatory in the learning process for all programmes. The UG and PG students do their major projects in the final year of the programme.

* Names of external institutions associated with the college for student project work

Department	Names of Associated External Institutions
Civil Engineering	Govt. Polytechnic Nagpur Ultratech Ready Mix Concrete, Buttibori, Nagpur SP Kulkarni, Structural Associate, Nagpur AQUADES Pvt. Ltd., Nagpur Irrigation Dept, Nagpur
Mechanical Engineering	ADCC Infotech Pvt. Ltd. Nagpur DYSMECH Consultancy Services Nagpur DIGITECH CAD/CAM Solutions Ltd. Nagpur CAD/CAM Guru, Pune PIX Transmissions Ltd. Nagpur NECO Schubert and Selzar Ltd. Nagpur Central Railway Training Institute, Ajni, Nagpur Panjabrao Krushi Vidyapith, Akola Nagpur Municipal Corporation, Nagpur UTTAM Steels, Wardha Minarhaydro Systems Pvt. Ltd., Nagpur DIFFUSION Ltd. Nagpur
Electrical Engineering	VNIT, Nagpur Ramdeobaba College of Engineering, Nagpur Priyadarshani College of Engineering, Nagpur Power Grid Corp Wardha Vasudhara Dairy Licensee of Amul products MIDC Hingana
Electronics Engineering	VNIT, Nagpur Mumbai University Unique Automation Private Limited, Nagpur SAP Control systems Private Limited Sharada Poly Colors Pvt. Ltd Diglin Industries, Nagpur Pune University Barkhatullah University, Bhopal Govt. Polytechnic, Amravati Arav Technologies, Nagpur Promax Digital Pvt. Ltd. Mahindra and Mahindra, Nagpur Linx Control systems, Nagpur

Electronics & Telecommunication Engineering	VNIT, Nagpur Ramdeobaba College of Engineering & Management, Nagpur Priyadarshani College of Engineering, Nagpur Ragiv Gandhi College of Engineering, Nagpur KDK College of Engineering, Nagpur Kavilukguru Institute of Technology and Science, Ramtek
Computer Technology	Persistent Systems Ltd. Infocepts Pvt. Ltd. Ramdeobaba College of Engineering, Nagpur Govt. Polytechnic, Nagpur Govt. College of Engineering, Amravati Wipro Technologies Pegasus Pvt. Ltd Microsoft Systems Kavilukguru Institute of Technology and Science, Ramtek
Information Technology	Persistent System, Nagpur ADCC Infocad, Nagpur Infocepts Nagpur Soft-tech Solutions, Nagpur IT Networks, Nagpur Kalmegh Dental College, Nagpur Global logic, Nagpur Laxmi Devi Bajaj Geriatric & Preventive Research

* Role of the faculty in facilitating such projects

Faculty member acts as a supervisor to monitor the project work. The department arranges the necessary facilities required. The committee consisting of faculty members reviews the projects periodically and helps the students to proceed in the proper direction and complete the project and submit a detailed report in the stipulated time.

2.3.11 What efforts are made to facilitate the faculty in learning / handling computer-aided teaching/ learning materials? What are the facilities available in the College for such efforts?

The students and faculty keep pace with the recent developments through internet, books and journals. The college has departmental libraries in addition to the main/ central library for the benefit of the faculty and students, which have a comprehensive collection of books and journals. Each department has a computer center with internet facility. In general, the faculty members are well-versed with computer aided teaching.

2.3.12 Does the College have a mechanism for evaluation of teachers by the students / alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?

Software is designed to collect the student feedback regarding the academic, attitude and discipline dimensions of the teaching-learning process. These feedback questionnaires are brief for in-semester evaluation while exhaustive at the end of semester and they cover all the dimensions regarding the course delivery and performance of the faculty. The feedback is analyzed through the built-in module of the software, and the results are obtained in the form of two indices for each teacher, whether teaching a theory or non-theory course in that particular term. The feedback indices are circulated to all the faculty members. If the feedback indices are more than 80%, the faculty is given the appreciation letter. However, if it is less than 60%, the faculty is counseled individually at departmental and institutional level to understand the issues related with feedback components. The faculty is assisted to overcome the barriers so that the performance is enhanced. In case of minor observations by students, the faculty is advised to take corrective measures indicated in the feedback.

2.3.13 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes elaborate on the challenges encountered and the institutional approaches to overcome these.

No, the college does not normally face any problem in completing the curriculum.

This is mainly due to the dedicated faculty members and their scrupulous planning as per the teaching plan. All the departments divide the syllabus for each semester in to manageable units; plan ahead on the number of units to be covered in the allotted hour. Hence, completing the curriculum within the timeframe has never been a problem.

If there are several holidays in a week or on a particular day in a term, then extra classes are held on Saturdays or on holidays to compensate for loss.

2.3.14 How are library resources used to augment the teaching-learning process?

Library manages to cater to the needs of teachers and students with access to books and journals. The central library functions on all days including Sundays and Government holidays. Departmental libraries also cater to the needs of the teachers to take books for reference. Leading dailies and magazines form a part of the library in order to create awareness amongst students on national and international events, current affairs etc. E-books and journals are also available through Local Area Network. Book bank System

provides text books for the underprivileged students and is issued for a term. Books for Competitive Examinations are issued to the students under the special issue scheme. The Library Committee suggests departments to purchase the latest edition of the books as per syllabuses with funds available to meet the students' requirements from different sources.

The library is fully computerized using Software and covering almost all the functions of library. All the books are bar-coded in the library & barcode laser scanners are used in the circulation counter for book transaction. Library services are on Internet/Intranet. The central library has adequate number of books and journals (including e-Journals) to cater to the needs of all programmes with open access to the students.

2.3.15 How does the institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance.

The college is adopting following methods to continuously monitor, evaluate and report on the quality of teaching and teaching methods used by faculty.

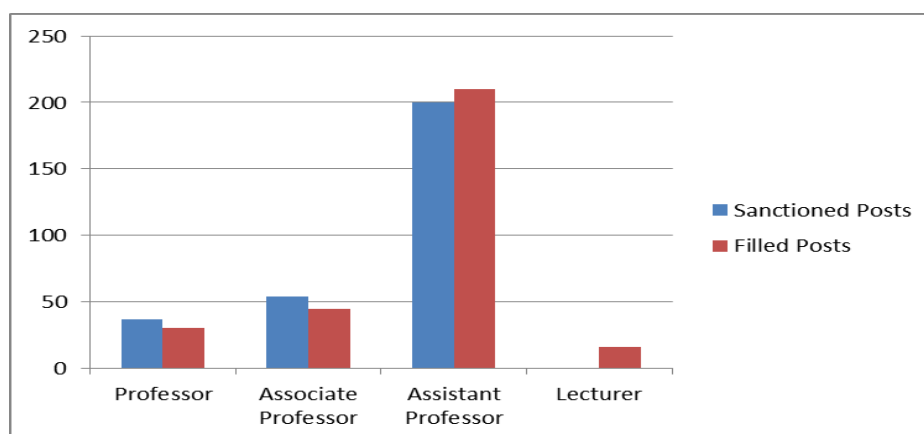
- Periodic checking of course file of each subject reveals the quality of teaching content and methods adopted for teaching the course.
- Formal Student feedback on each course at the end of fourth/ fifth week and at the end of the tenth/eleventh week, analysis of feedback and follow-up actions by HoD.
- Informal feedback from students by Class Teacher.
- Informal feedback from students by the departmental committee in second and sixth week of the term.
- Verification on quality of question papers and assignment question and student answer scripts by internal quality assurance cell.
- Monthly review by the HoD and Principal on coverage of content and adherence to the schedules.
- Student performance in Mid Semester Examinations and the assignments are reviewed by HoD in departmental meetings.
- Informal Feedback from students by Dean Academic Matters
- Informal feedback from selected students from each class and branch by the representatives of Board of Management

2.4 Teacher Quality

2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

Total faculty strength of the Institute in 2015-16 is **301**

Designation	Sanctioned Posts	Filled Posts
Professor	37	30
Associate Professor	54	45
Assistant Professor	200	210
Lecturer	0	16



Out of **301** faculty members on roll 12 are from outside the state of Maharashtra.

2.4.2 How are the members of the faculty selected?

In order to ensure quality in teaching, the college is following an appropriate procedure in recruiting the faculty members. The Selection procedure and Rules are as follows:

The qualifications required for filling a posts shall be determined by taking into consideration the norms prescribed by Govt. of Maharashtra/ Affiliating University (RTMNU) /AICTE / UGC.

The roster is applied to the vacant posts submitted to the University as per the guidelines of State Government.

Posts are filled by open advertisement in national Newspapers in conformity with University Rules and Regulations.

All Faculty positions are filled up by open competition. The selection is based on the recommendations of the University Staff Selection Committee duly constituted as per the norms of the Affiliating University.

All temporary and adhoc appointments are based on the recommendations of the College Staff Selection Committee duly constituted by Executive Body/Governing Body from time to time.

Any other instruction given, or rule prescribed, from time to time, by Govt. of Maharashtra/Affiliating University/AICTE /UGC regarding selection procedure will automatically form part of the rules/procedure of selection.

2.4.3 Furnish details of the faculty

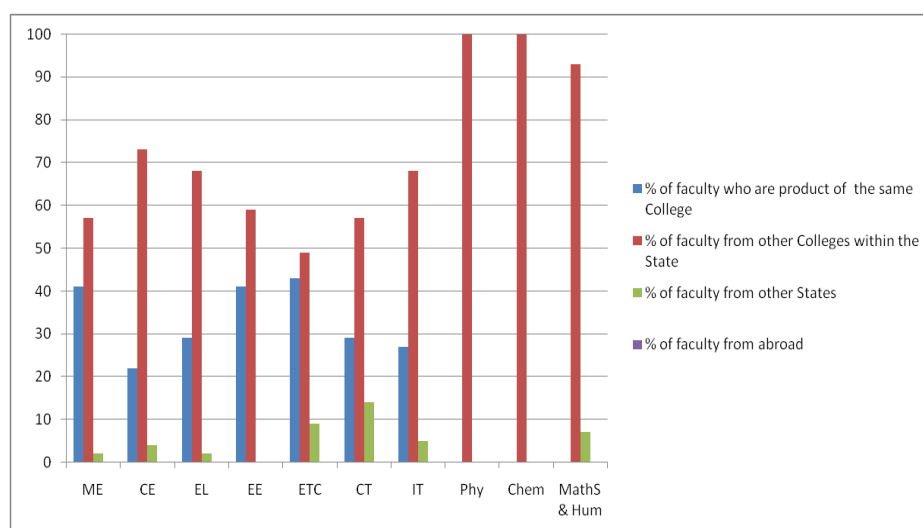
Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
A. Permanent teachers							
D.Sc. / D.Litt.							
Ph.D.	24	5	8	7	3	2	49
M.Phil.			1	1	0	0	2
M.TECH./ME/M.A./M.Sc.	1	0	23	2	118	85	229
B.E./B.A.			3	0	1	1	5
TOTAL (A)	25	5	35	10	122	88	285
PG	10	1	5	1	11	15	43
UG	15	4	30	9	111	73	242
B. Temporary Teachers	0	0	0	0	0	0	0
C. Part-time Teachers							
Ph.D.	0	0	0	0	1	0	1
M.Phil.	0	0	0	0	0	0	0
M.TECH./ME/M.A./M.SC./MBA	0	0	0	0	6	3	9
B.E./B.A.			0	0	2	4	6
TOTAL (C)	0	0	0	0	9	7	16
PG	0	0	0	0	0	0	0
UG	0	0	0	0	9	7	16
TOTAL (A+B+C)	25	5	35	10	131	95	301

2.4.4 What percentage of the teachers has completed UGC-CSIR-NET, UGC-NET, and SLET exams? In that what percentage of teachers are with PG as highest qualification?

Not Applicable.

2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

Department	% of faculty who are product of the same College	% of faculty from other Colleges within the State	% of faculty from other States	% of faculty from abroad
Mechanical Engineering	41	57	2	0
Civil Engineering	22	73	4	0
Electrical Engineering	29	68	2	0
Electronics Engineering	41	59	0	0
Electronics & Telecom. Engineering	43	49	9	0
Computer Technology	29	57	14	0
Information Technology	27	68	5	0
Applied Physics	0	100	0	0
Applied Chemistry	0	100	0	0
Applied Mathematics & Humanities	0	93	7	0



2.4.6 Does the College have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements? How many faculty members were appointed during the last four years?

Yes. College is having required number of qualified and competent teachers to handle all the courses for all departments. In case some faculty members leave the college, every year before the start of new academic sessions required vacancies are filled through staff recruitment process. A duly constituted staff selection committee recommends the candidates and college appoints them.

During last five years faculty appointed in various cadres is as indicated.

Year	Asst. Prof.	Associate Prof.	Professor	Total
2015-16	17	0	0	17
2014-15	62	1	2	65
2013-14	84	3	--	87
2012-13	45	--	--	45
2011-12	19	--	--	19

2.4.7 How many visiting Professors are on the rolls of the College?

In current academic session (2015-16) four (04) Visiting faculty members are on the rolls of college.

2.4.8 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, nomination to national/international conferences/Seminars, in-service training, organizing national/international conferences etc.)

The College extends its support in all aspects to improve the quality of the faculty.

The faculty is encouraged to participate in training programmes /work shops / seminars / conferences /FDPs to update/ develop skills.

Research Grants:

The College Management encourages the faculty by providing research grants and also encourages the faculty to apply in order to get research grants from funding agencies like AICTE, UGC, and DST.

The College Management offers incentives to the faculty who receive the research grants from the funding agencies.

Study Leave:

Based on the requirements of the individual Departments and the recommendations of the HoD, Principal may grant Study Leave to staff members for higher studies.

Nomination to National/International Conferences/Seminars:

The College encourages the faculty to attend National/International conferences /Seminars by providing financial assistance and special leave.

In-Service Training:

The College organizes various Faculty Development Programmes, STTP, Workshop, Induction Training Programmes for newly appointed teachers and also encourages faculty to attend training programmes conducted at various institutions/industries to enrich their knowledge.

Organizing National / International Conferences:

The College encourages all the Departments to organize conferences /seminars /workshops /exhibitions by providing financial assistance.

The College provide financial assistance for organizing seminars /conferences /work-shops / STTP / Faculty Development Programmes.

2.4.9 Give the number of faculty who received awards / recognitions for excellence in teaching at the state, national and international level during the last four years.

Nil

2.4.10 Provide the number of faculty who have undergone staff development programmes during the last four years. (Add any other programme if necessary)

The college authorities always encourages faculty members to update their knowledge by attending staff development programmes.

Details of faculty undergone staff development programmes in last four years:

Academic Staff Development Programmes	Number of faculty			
	11-12	12-13	13-14	14-15
Civil Engineering				
Refresher courses	-	-	-	-
HRD programmes	-	2	41	16
Orientation programmes	-	16	4	37

Academic Staff Development Programmes	Number of faculty			
	11-12	12-13	13-14	14-15
Staff training conducted by the College	-	43	22	5
Staff training conducted by University/other Colleges	11	3	17	5
Summer / winter schools, workshops, etc.	32	34	29	08
Any other (please Specify)	Nil	Nil	Nil	Nil
Electrical Engineering				
Refresher courses	-	-	-	-
HRD programmes	-	-	-	-
Orientation programmes	5	-	6	7
Staff training conducted by the College	9	14	13	11
Staff training conducted by University/other Colleges	1	5	30	10
Summer / winter schools, workshops, etc.	-	-	-	-
Any other (please Specify)	-	-	-	-
Mechanical Engineering				
Refresher courses	8	3	3	5
HRD programmes	-	-	-	-
Orientation programmes	8	3	3	5
Staff training conducted by the College	3	2	2	5
Staff training conducted by University/other Colleges	28	40	45	12
Summer / winter schools, workshops, etc.	2	3	2	3
Any other (please Specify)	-	-	-	-
Electronics Engineering				
Refresher courses	-	-	-	-
HRD programmes	-	-	9	3
Orientation programmes	5	-	3	-
Staff training conducted by the College	12	22	29	15
Staff training conducted by University/other Colleges	23	8	14	21
Summer / winter schools, workshops, etc.	-	-	-	-
Any other (please Specify)	-	-	-	-
Electronics & Telecom. Engineering				
Refresher courses	-	-	-	-
HRD programmes	-	-	-	-

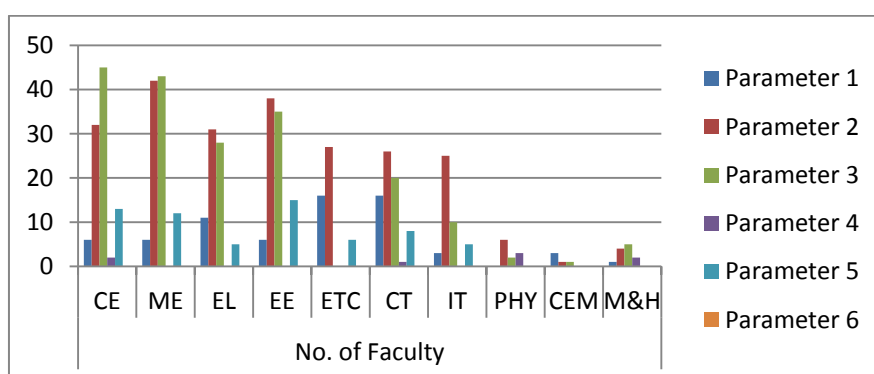
Academic Staff Development Programmes	Number of faculty			
	11-12	12-13	13-14	14-15
Orientation programmes	7	1	7	4
Staff training conducted by the College	16	8	10	7
Staff training conducted by University/other Colleges	19	26	28	21
Summer / winter schools, workshops, etc.	24	26	31	7
Any other (please Specify) (seminar)	5	8	5	4
Computer Technology				
Refresher courses	-	-	13	-
HRD programmes	-	-	-	-
Orientation programmes	-	-	3	-
Staff training conducted by the College		5	2	28
Staff training conducted by University/other Colleges	4	7	9	9
Summer / winter schools, workshops, etc.	10	15	21	23
Any other (please Specify)	-	-	-	-
Information Technology				
Refresher courses	-	7	6	-
HRD programmes	-	-	-	-
Orientation programmes	-	7	6	-
Staff training conducted by the College	-	6	10	15
Staff training conducted by University/other Colleges	1	1	11	5
Summer / winter schools, workshops, etc.	1	11	11	14
Any other (please Specify)	-	-	-	-
Mathematics & Humanities Department				
Refresher courses	-	-	-	-
HRD programmes	-	-	-	-
Orientation programmes	-	-	-	-
Staff training conducted by the College	-	9	1	5
Staff training conducted by University/other Colleges	-	-	-	1
Summer / winter schools, workshops, etc.	-	-	-	-
Any other (please Specify)	-	-	-	-
Physics Department				
Refresher courses	-	-	-	-

Academic Staff Development Programmes	Number of faculty			
	11-12	12-13	13-14	14-15
HRD programmes	-	-	-	-
Orientation programmes	-	-	-	-
Staff training conducted by the College	-	-	-	-
Staff training conducted by University/other Colleges	-	2	-	1
Summer / winter schools, workshops, etc.	-	-	1	6
Any other (please Specify)	-	-	-	-
Chemistry Department				
Refresher courses	-	-	-	-
HRD programmes	-	-	-	-
Orientation programmes	-	-	-	-
Staff training conducted by the College	-	-	-	-
Staff training conducted by University/other Colleges	-	-	-	2
Summer / winter schools, workshops, etc.	-	-	-	-
Any other (please Specify)	-	-	-	-
Summer / winter schools, workshops, etc.	-	-	-	-
Any other (please Specify)	-	-	-	-

2.4.11 What percentage of the faculty have

- been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies
- participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies
- presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies
- teaching experience in other universities / national institutions and others
- industrial engagement
- international experience in teaching

SN	Parameters	No. of Faculty									
		CE	ME	EL	EE	ETC	CT	IT	PHY	CEM	M&H
1	Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies	6	6	11	6	16	16	3	-	3	1
2	Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies	32	42	31	38	27	26	25	6	1	4
3	Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies	45	43	28	35	7	20	10	2	1	5
4	Teaching experience in other universities / national institutions and others	2	-	-	-	-	1	-	3	--	2
5	Industrial engagement	13	12	5	15	6	8	5	--	--	--
6	International experience in teaching	-	-	-	-	-	-	-	-	--	--



2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?

- Curricular Development
- Teaching-learning methods
- Examination reforms
- Content / knowledge management
- Any other (please specify)

Curricular Development: Inputs of all faculty members regarding curriculum development of the department are discussed in its Board of Studies meeting which is conducted twice in a year. The Board with department Head as its Chairman and committee members from the department, experts from industry, other institutes and distinguished alumni meets to frame the curriculum, review current subjects, objectives and outcomes, introduce recent topics or new subjects as needed to cater to the current and forecasted demands. The curriculum with proposed changes is presented in the Academic Council meeting for approval.

Teaching-Learning Methods: Workshop on outcome based education, soft skills for better course delivery, training on procedures in planning, delivering, monitoring and evaluation are organized.

Examination Reforms: Any information regarding changes in the examination norms under autonomy is disseminated to all departments and faculty members by the competent authorities.

Content / Knowledge Management: College organizes several faculty development programs, seminars, workshop's, conferences in contemporary and novel areas to improve and update the knowledge of faculty members. Guest lectures are also organized under the departmental Society's activities and professional bodies.

Any other (please specify): College has collaboration with leading global organizations such as TCS, IBM, Wipro, etc for providing training to faculty members in current areas.

2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?

Innovation is an element of teaching process to make the learning an enjoyable exercise for the students to enable them to be developed holistically. The College promotes the use of activity-based learning.

Use of interactive communications tools, smart boards for teaching.

- Usage of online tools such as Moodle for evaluation
- Providing LCD projectors in the classrooms and usage of PPTs in teaching
- Project based learning
- Taking up Industry defined problems and case studies
- College encourages faculty members using innovative tools in teaching.

2.4.14 Does the College have a mechanism to encourage

- Mobility of faculty between institutions for teaching?
- Faculty exchange programmes with national and international bodies?

If yes, how have these schemes helped in enriching quality of the faculty?

Mobility of faculty between institutions for teaching:

- Members of the faculty are encouraged to present guest lectures, be resource persons for seminars, conferences, training programs, workshops etc. Collaborations with world leading organizations in technology.

Faculty exchange programmes with national and international bodies:

- College has MoU with SVNIT, Surat, SEGi University Malaysia, Purdue University, Northern Illinois University, USA, Michigan State University USA, University of Massachusetts of Lowell USA, Lawrence University, USA, University of Hartford USA.

These schemes have provided faculty with deeper technical understanding, exposing them to varied ideas and delivery methods of industry and other institutions. This has facilitated the institute's objective of developing a diverse and vibrant faculty with an ability to deliver very effectively.



Faculty Visit to UK

2.5 Evaluation Process and Reforms

2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?

The evaluation process is instrumental to a student's personal and career development. Students appreciate an assessment of their academic performance and welcome constructive feedback. Since the Evaluation Process is one of the foremost components in maintaining the authenticity of an autonomous curriculum, utmost care is taken in the conduct of the examinations.

The evaluation process is made known to the stakeholders during the orientation programme by the Dean (Academic Matters) when fresher's join into the College. Periodically, teachers and HoDs orient their wards regarding the same in the classes. The newly recruited staff members are also given an introduction to the examination system. Each department separately gives orientation to newly admitted students about Continuous Assessment by term tests and Semester Examinations, question paper pattern, evaluation options, Re-sit examinations and rules regarding their conduct during class tests and examinations.

The departments conduct regular meeting with the students every month and also meet their parents once in a semester.

The academic regulations, the scheme of examination, the course contents, notifications etc are put on the college website and can be freely downloaded by all stakeholders.

2.5.2 What are the major evaluation reforms initiated by the College and to what extent have they been implemented in the College? Cite a few examples which have positively impacted the evaluation management system?

Up to 2009-10, the college was following RTMNU evaluation process. In 2010-11 college obtained academic autonomous status under RTMNU. An independent evaluation system was evolved by college with following examples which have positively impacted the evaluation management system.

The format of question paper is evolved such that the students will have to learn the complete course syllabus.

In each subject offered in the semester, five sets of question papers are set from both internal and external paper setters.

The identity of the examinees is concealed and answer books are shuffled before the valuation process.

The solution to the question paper and marking scheme is drawn and discussed before the evaluation process is carried out. This brings about

uniformity in the evaluation process to be done by multiple valuers. While the process is under progress, the moderators hold discussion with evaluators. This provides continuous monitoring of process and alleviates errors in the evaluation process.

The evaluation process is carried out by both internal and external examiners.

The schedule for evaluation is intimated to all the faculty members in advance and results are announced as scheduled. This helps in managing and completing the evaluation process as per schedule.

The evaluated answer books are checked by the scrutinizers for any mistakes or errors in entering marks or totaling of marks.

The valued answer books are handed over to the course instructors to be shown to students to ascertain the satisfaction about the valuation.

The students are permitted to raise grievances about valuation of their answer books.

The above mentioned procedure is same even for all the UG and PG programmes.

After declaration of result, the samples of question papers and answer books are evaluated by subject experts from outside the institute and enhance the credibility of the evaluation process.

2.5.3 What measures have been taken by the institution for continuous evaluation of students and ensuring their progress and improved performance?

The evaluation of students is carried out as two components. One component of evaluation is carried out during the semester by conducting tests, seminars, quizzes, small projects, assignments etc. At the beginning of the semester, faculty members inform the students about the various components in the assessment process during the semester. After each process, the students are provided with outcome of the assessment and teacher interacts with the students.

This information is also available to parents as well. The performance of each student is discussed in the regular meetings in the department. The remedial measures are also discussed with the student on individual basis. This continuous interaction between the faculty members provides ample opportunity for the student to improve his/her performance.

2.5.4 What percentage of marks is earmarked for continuous internal assessment? Indicate the mechanisms strategized to ensure rigour of the internal assessment process?

Each course is assessed for 100 marks with weight age of 40% for continuous assessment while 60% assessment is done at End Semester Examination.

Theory Course: The continuous assessment comprises of 2 tests (MSE) each of 15 marks and one and half hour duration, totaling to 30 marks. The tests are conducted by the college on the dates mentioned in the academic calendar. The remaining 10 marks are assessed by the teacher based on two activities of 04 marks each, which can be assignments/ quiz/ objective tests etc, as specified by the course instructor. 02 marks out of 10 are for the class room attendance of the student.

Laboratory Course: The Continuous Assessment (CA) in laboratory course is carried out for 40 marks based on the laboratory exercises/experiments along with submission of journal/report and internal test. These marks are split in four parts of 10 marks each. By MSE1, a student is evaluated for lab work in first 5 weeks. Another 10 marks evaluation is done for week no 6 to 10. In the last part of semester, 10 marks are for lab work, while remaining 10 marks are based on the attendance of student in labs, his participation in practical works, his journal / report, their timely submission and general attitude inside the lab.

Project Work: The evaluation of CA of the project work shall be based on progress of the student in the work assigned by the project supervisor, periodically evaluated by him/her together with the departmental committee constituted for this purpose.

Seminar/ Training: The evaluation of CA of the seminar is based on the performance of the student of the work assigned by the guide and evaluated in the departmental committee and guide.

After every assessment, the faculty interaction with students about the performance of the students helps in improving their performance.

2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?

The college declares the academic schedule for ODD and EVEN Term of academic session in the beginning of term in which the examination schedule and results schedules are also announced. The announced schedule is always adhered to.

2.5.6 What is the average time taken by the College for declaration of examination results? Indicate the mode / media adopted by the College for the publication of examination results e.g., website, SMS, email, etc.

Normally the results are announced within three weeks, after the last day of the examination. The examination results are published online on the institute website. Also hard copy of result Gazette is given to all departments for information and display. Student can access the results online by entering the exam roll no. and obtain the detailed results with Semester Grade Point. The result also displays the grades obtained by the student subject wise. The result is also made available on android app for the convenience of the students and parents.

2.5.7 Does the college have an integrated examination platform for the following processes?

- * Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
- * Examination process – Examination material management, logistics.
- * Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.

YES, the software is available with integrated modules, which includes Admission, Registration, Time Table, Attendance, Marks Entry, Pre-Examination Processes, Online Payment of fees, Result Processing, Generation of Various Reports, Grade Card, Result Gazette, TR etc.

Pre-Examination Process:

The Pre-Examination process comprises various elements including Student and Faculty involvement.

The pre- examination process starts with gathering the required information in the Proforma by the CoE. Given below are the list components for the smooth conduct of the examination.

Nature of Course offered are Theory, Laboratory, Elective, Free Elective, other non- theory courses.

Detailed syllabi with course code and title – Contact Hours, Duration of examination for courses offered during the academic year, Maximum MSE, TA, CA and ESE marks are entered in software as per the SoE (Scheme of Examination).

Panel of internal /external examiners for theory question paper setting, moderation and valuation is entered by Subject Board and a print out is submitted to CoE.

Similarly Panel of internal / external examiners for practical / project is entered by Subject Board and a print out is submitted to CoE.

Appointment of examiners for setting theory question paper is done by the CoE and appointment letters are generated through software and sent to setter.

HoD is asked to submit the practical examination Time Table to CoE. The appointment of internal and external examiner for practical subject is generated through software and sent to examiners.

As per rule of detention students having less attendance are detend and are not allowed to appear for examination, such student entry are done in software.

Exam Roll No. allotment, generation of examination roll list, Hall tickets is done through software module. MSE, CA, TA Mark entry is done in software module by the respective teacher.

Examination Fee: The examination fee for each student is automated with the details available in the software. The examination form is generated through software. The students are informed through notice displayed on website regarding submission of examination form and fee with date and time slot to avoid the rush at the counter. Also SMS is sent to student mentioning date and time of submission of exam form and fee at the student section.

Time Table: A draft Time table for internal assessment tests and end semester examinations are prepared and approved by the head of the college. After making the necessary changes if any, the final Time table is sent to the respective departments well ahead of time to inform the students and staff. The examination time table is displayed on college website.

External Examiners: The panels of examiners submitted by the Chairpersons of BoS to CoE. They are chosen from the submitted panel. The panel of examiners contains the examiners from within and from outside the college.

Setting of Question Papers: The appointment letters are sent to examiners with a request to prepare the question paper. The prescribed format is sent well in advance. This offer letter contains the pattern of question paper, syllabus and other forms are sent to facilitate the process of question setting. The questions are validated / scrutinized by the team of expert members (Moderators).

Generation and Issue of Hall Tickets: The students who have completed the attendance requirements and paid the tuition, other college and examination fee are eligible to appear for end semester examination. Hall tickets are generated by the office of Controller of Examination for such eligible candidates and issued individually through the Assistant Registrar (Student Section) before the commencement of the examination.

Preparatory Arrangements:

CoE ask HoD to submit name of examination incharge and committee members for conduction of examination. The appointment of Examination In charge and his committee is made by the CoE. The Examination In-Charge (EIC) then prepares the exam Hall invigilators duty chart and seating arrangements, attendance sheets for students are prepared in advance by EIC.

The physical arrangement for Examinations is appropriately made with regard to the seating arrangements with specific indicators for each student by the EIC and is prominently displayed for the benefit of examinees.

CoE also appoints the various other committees like Vigilance Squad etc. in order to conduct the examination in smooth manner.

Examination Material Management:

The required material for conducting of the examination is procured in advance by indenting to the procurement system in the institution. Each answer book carries a unique number.

Before commencement of the examinations (MSE/ESE), the office of Controller of Examinations distributes the answer books. The sealed packets containing question papers are handover to EIC one day prior to exam date.

The Examination-in-charges at various departments use the stationery and also maintain the account of usage of stationery, which is submitted to the office of CoE. The whole activity of examinations is done under the overall supervision of the Examination Committee which is chaired by the Principal. All appointments are done by CoE on behalf / as directed by EC.

Post Examination Process: Valuation

The answer books of the students are prepared for evaluation process by concealing the identity of examinee. The answer books of one course are shuffled and packet of 30 answer books are prepared and uniquely numbered for easy identification during storage, valuation, and scrutiny and data entry of marks.

The panel of evaluators is provided by the respective Chairmen of the Board of Studies. The evaluators are selected from the list. The evaluators are assigned the packets for evaluation.

The valued answer books are scrutinized for any possible errors of unvalued portion, totaling of marks etc. The marks are entered into the system. The marks are automatically captured by the automated system and processed to generate the results. The checking of marks and calculations of grade cutoff are supervised by the Tabulation Committee.

Post Examination Process: Result Processing & Declaration:

The trial results are sent to RPMC for the review and comments. The final results are processed using Software. Gazette, Tabulation registers and Grade Sheets are prepared through the software in hard and soft copy. After the scrutiny of the result, the Examination Committee approves the results and they are declared on college web site. The hard copies of result gazettes are sent to various offices of college for further usage. The academic data including credit earned by the students is available to various offices of the college for their use on the software platform. The grade cards are printed and distributed to students by the Student section.

2.5.8 Has the College introduced any reforms in its Ph.D. evaluation process?

The Ph.D. evaluation is carried out as per the procedure prescribed by the RTMNU, Nagpur to which the institute is affiliated. This process does not come under the ambit of institution evaluation system.

2.5.9 What efforts are made by the College to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved process and functioning of the examination division/section?

The examination related all activities are well defined and executed will full transferancy.

Confidentiality is maintained wherever it is required.

- The academic calendar is provided with all details such as last dates for registration, withdrawals, schedules of Mid and End Semester Examinations and results schedule. The schedule is strictly adhered to.
- The continuous assessment process is monitored and conducted with complete transparency and in a fair manner.
- The controller of examination obtains the list of paper setters for all the subjects offered in the semester. Intimations are sent to the paper setters from CoE section and question papers are received.
- The complete details of panel of paper setters, date of sending intimation letter and receiving the question papers are maintained in the section.
- The Board of Examiners meeting is scheduled for all the programmes by the controller of examination to scrutinize the question papers received from both internal and external paper setter. The meeting is conducted in the office of the CoE and complete confidentiality is maintained.

- The preparation of final question paper is carried out under the supervision of CoE and kept in the strong room, which is access controlled.
- Evaluation process is carried out by a team of coordinators selected from various departments, which works under the instructions and supervision of CoE.
- The evaluation schedule is prepared by CoE and intimated to the chairman, board of examiners before the commencement of examination. This schedule is strictly followed.
- The evaluated marks are captured by the automated system and processing is carried out. The entire processing of results, generating results sheets, uploading of results to website is carried out under the supervision of CoE.
- Complete confidentiality is maintained in the entire examination process by all concern.
- The security measures are made available by the way of CCTV cameras installed at all strategic places which records all events continuously.

To improve the working of examination cell following steps are taken recently.

Infrastructure:

Looking at the volume of work and space requirement for smooth functioning, well planned new separate building of 2 floor with floor area of 13,568 sq. ft. is constructed and examination office is shifted to new building. Sufficient no. of computers, printers, Xerox and automatic printing machine is provided.

Human Resource:

Additional experience staff is appointed for timely completion of the examination related activities. Sufficient manpower is deployed.

Use of Technology:

- For fast and effective communication to students, examiners, paper setter and valuers email and SMS facility is used.
- The appointment letter of valuers is sent through integrated SW for fast and confidential communication
- SMS are triggered for valuation reporting date and subject as per time table
- Students are informed regarding exam form filling date and time through SMS to avoid last minute rush at the student section

- For information of student attendance and marks are send by customized SMS facility.
- Students are informed through SMS to collect their Grade Card after declaration of result.
- Android app is developed and provided to student to see attendance and result of all exams for which he has appeared.

2.5.10 What is the mechanism for redressal of grievances with reference to evaluation?

- The student can see his/her answer book of MSE/ESE after valuation but before the result declaration and clarify doubts (if any) from the concerned faculty.
- In case, he is still unsatisfied with the valuation, he/she can approach the HoD, who can intervene and seek opinion of another course teacher.
- If the student is still unsatisfied, he can submit a simple grievance form in the office of CoE.
- On demand, the students are provided with the marking scheme and solutions of the question paper.
- Duly constituted Grievance Redressal Committee scrutinize the grievances submitted and appropriate actions are recommended. In case of undervaluation grievance the answer books are valued from another senior teacher and result is modified if there is change in marks.
- After completion of degree requirements in term of accumulated credits, a student can opt for improvement of CGPA, subjected to certain conditions.

2.5.11 What efforts are made by the College to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved process and functioning of the examination division/section?

- The academic calendar is provided with all details such as last dates for registration, withdrawals, schedules of Mid and Semester End Examination and results schedule. The schedule is strictly adhered to.
- The continuous assessment process is monitored and conducted with complete transparency and in a fair manner.
- The controller of examination obtains the list of paper setters for all the subjects offered in the semester. Intimations are sent to the paper setters from CoE section and question papers are received.

- The complete details of panel of paper setters, date of sending intimation letter and receiving the question papers are maintained in the section.
- The Board of Examiners meeting is scheduled for all the programmes by the controller of examination to scrutinize the question papers received from both internal and external paper setter. The meeting is conducted in the office of the CoE and complete confidentiality is maintained.
- The preparation of final question paper is carried out under the supervision of CoE and kept in the strong room, which is access controlled.
- Evaluation process is carried out by a team of coordinators selected from various departments, which works under the instructions and supervision of CoE.
- The evaluation schedule is prepared by CoE and intimated to the chairman, board of examiners before the commencement of examination. This schedule is strictly followed.
- The evaluated marks are captured by the automated system and processing is carried out. The entire processing of results, generating results sheets, uploading of results to website is carried out under the supervision of CoE.
- Complete confidentiality is maintained in the entire examination process by all concern.
- The security measures are made available by the way of CCTV cameras installed at all strategic places which records all events continuously.

2.5.12 What is the mechanism for redressal of grievances with reference to evaluation?

- The student can see his/her answer book of MSE/ESE after valuation but before the result declaration and clarify doubts (if any) from the concerned faculty.
- In case, he is still unsatisfied with the valuation, he/she can approach the HoD, who can intervene and seek opinion of another course teacher.
- If the student is still unsatisfied, he can submit a simple grievance form in the office of CoE.
- On demand, the students are provided with the marking scheme and solutions of the question paper.
- Duly constituted Grievance Redressal Committee scrutinize the grievances submitted and appropriate actions are recommended.
- After completion of degree requirements in term of accumulated credits, a student can opt for improvement of CGPA, subjected to certain conditions.

2.6. Student Performance and Learning Outcomes

2.6.1 Does the College have clearly stated learning outcomes for its programmes? If yes, give details on how the students and staff are made aware of these?

Yes, each program in the college has its clearly defined learning outcomes which are aligned with the program educational objectives.

Each program has its generic learning outcomes and two or three programme specific learning outcomes. These outcomes are derived from the graduate attributes of undergraduate engineering.

These are disseminated to all stakeholders by publishing them in websites, bulletin, display boards etc.

2.6.2 How does the institution monitor and ensure the achievement of learning outcomes?

To facilitate the achievement of the intended learning outcomes, the strategies of teaching, learning & assessment of the institute are through:

1. Direct method

- Lecture interspersed with discussions
- Lecture with a quiz
- Tutorials
- Laboratory
- Group Discussion
- Group Assignment
- Group Project
- Term Paper/Report
- Video Lectures (NPTEL, DTEL, MIT) - ICT tools
- Continuous Evaluation
- Semester End Examinations
- Practical Tests

2. Indirect method

- Employer Survey (Industry Survey)
- Alumni Survey
- Student Feedback Survey

Apart from these indicators, the college encourages the following activities to achieve the outcomes:

- Faculty improvement program
- Conducting mentoring classes for slow learners.
- SMS facility in order to intimate the parents about students' attendance and academic status

2.6.3 How does the institution collect and analyse data on student learning outcomes and use it for overcoming barriers of learning?

Data about outcomes of the learning by the students are collected regularly and on continuous basis. Not only physical presence of the students are counted but also their performance in mid-semester exam, assignments, projects, presentations etc., and their performance in end-semester exam are taken into considerations.

Collection of Data:

1. Every course teacher maintains evaluation data of Mid Sessional and End Semester Exam. and assignments on a regular basis and is to be used for assessing the learning outcomes.
2. Course teachers also submit Course Completion Report at the end of each semester
2. Feedback of graduating students is taken every year
3. Alumni Survey, Employer Survey is conducted
4. Data of graduates seeking higher education is collected from teachers and T& P department
5. Students placement data is collected by T&P Department
6. Parents feedback is collected during parent-teacher meet
7. Participants feedback on various activities/value added courses is collected by faculty incharge

Analysis and Overcoming Barriers:

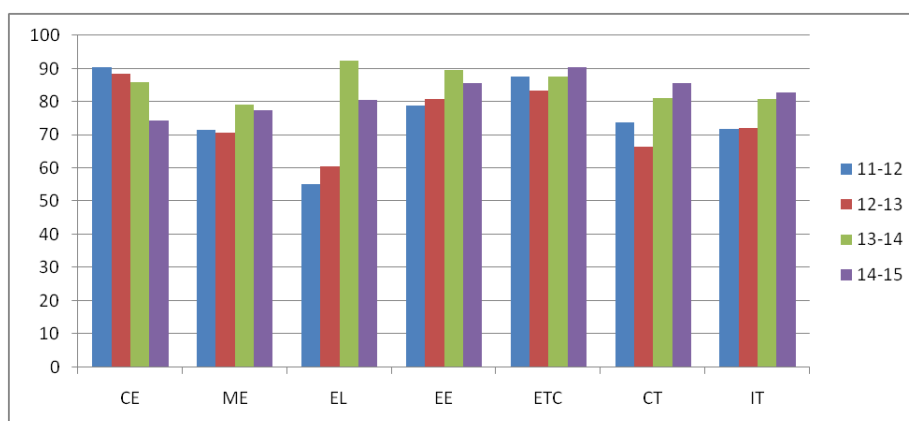
The collected data are analyzed to find out the level of attainment as well as gaps are identified as per the set targets for assessing each outcome.

If there is a discrepancy in the targeted and attained level of outcome as observed by individual faculty a critical analysis is carried out by each concerned faculty to find out the causes. Such findings are discussed in the department meeting Department Core Committee as well as in Board of Studies and relevant corrective actions are planned. Various skill enhancement programmes, Value added courses, conduct of remedial classes, addressing weak students, repeating the difficult topics, inviting guest lectures are conducted to bridge the gap. If required minor corrections in the course syllabus, inclusion of new elective courses are approved by BoS.

A close monitoring is done for the implementation of the suggestions to finally crosscheck the improvement in the attainment.

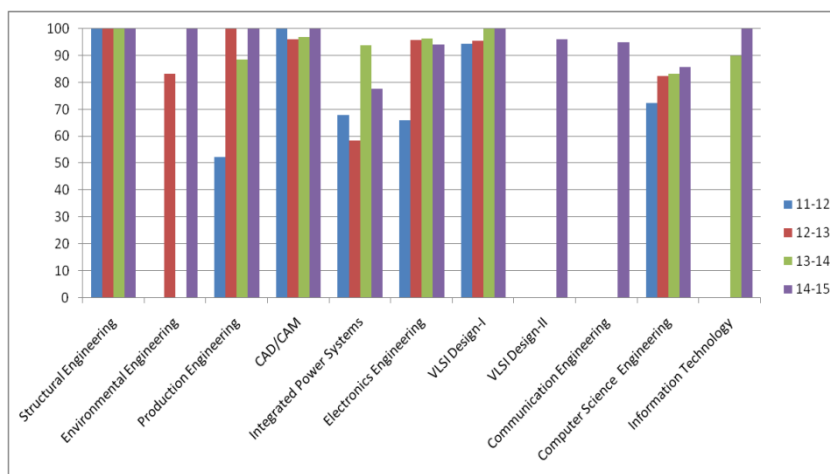
2.6.4 Give Programme-wise details of the pass percentage and completion rate of students.

Name of Program (UG)	Completion Rate (%)			
	11-12	12-13	13-14	14-15
B.E. Civil Engineering	90.35	88.28	86	74.18
B.E. Mechanical Engineering	71.45	70.62	79.15	77.54
B.E. Electrical Engineering	55.17	60.5	92.5	80.39
B.E. Electronics Engineering	78.84	80.91	89.46	85.65
B.E. Electronics & Telecommunication Engineering	87.62	83.31	87.47	90.44
B.E. Computer Technology	73.63	66.44	81.06	85.61
B.E. Information Technology	71.88	71.96	80.81	82.75



Name of Program (PG)	Completion Rate (%)			
	11-12	12-13	13-14	14-15
M. Tech. Structural Engineering	100	100	100	100
M. Tech. Environmental Engineering	----	83.33	----	100
M. Tech. Production Engineering	52.35	100	88.4	100
M. Tech. CAD/CAM	100	96.15	96.75	100
M. Tech. Integrated Power Systems	67.85	58.33	93.85	77.78
M. Tech. Electronics Engineering	65.80	95.83	96.42	94.1

Name of Program (PG)	Completion Rate (%)			
	11-12	12-13	13-14	14-15
M. Tech. VLSI Design-I	94.44	95.45	100	100
M. Tech. VLSI Design-II	--	--	--	95.95
M. Tech. Communication Engineering	83.33	95	100	95
M. Tech. Computer Science & Engineering	72.22	82.30	83.33	85.84
M. Tech. Information Technology	-----	-----	90	100



Final Year Examination Results – Last Four Years

a. UG Program

S. N.	Year	Appeared	Passed	% Passed	First Div.	Second Div
1.	2014-15	999	933	93.39	758	175
2.	2013-14	980	918	93.67	761	157
3.	2012-13	808	744	92.07	583	161
4.	2011-12	764	700	91.62	551	149

b. PG Program

S. N.	Year	Appeared	Passed	% Passed	First Div.	Second Div
1.	2014-15	234	228	97.44	224	4
2.	2013-14	183	181	98.91	179	2
3.	2012-13	205	190	92.68	182	8
4.	2011-12	177	132	74.58	129	3

Examination Results (Past Four Years for Final Year)

S. N.	UG Program	Year	Appeared	Passed	% Passed	First Div.
1.	B. E. Electronics Engineering	2014-15	160	157	98.13	122
		2013-14	153	146	95.42	132
		2012-13	145	125	86.20	101
		2011-12	136	125	91.91	101
2.	B. E. Civil Engineering	2014-15	155	141	90.97	120
		2013-14	141	129	91.49	104
		2012-13	70	67	95.71	56
		2011-12	73	69	94.52	57
3.	B. E. Electronics & Telecom. Engineering	2014-15	158	147	93.04	118
		2013-14	154	143	92.86	121
		2012-13	146	139	95.20	111
		2011-12	137	129	94.16	107
4.	B. E. Computer Technology	2014-15	157	143	91.08	117
		2013-14	171	156	91.23	123
		2012-13	145	132	91.03	88
		2011-12	144	132	91.67	114
5.	B. E. Information Technology	2014-15	82	75	91.46	58
		2013-14	80	75	93.75	59
		2012-13	74	72	97.29	58
		2011-12	63	57	90.47	41
6.	B. E. Mechanical Engineering	2014-15	144	140	97.22	114
		2013-14	160	154	96.25	130
		2012-13	152	140	92.10	120
		2011-12	136	125	91.91	87
7.	B. E. Electrical Engineering	2014-15	143	130	90.91	109
		2013-14	121	115	95.04	92
		2012-13	76	69	90.78	49
		2011-12	75	63	84.00	44

S. N.	PG Program	Year	Appeared	Passed	% Passed	First Div.
1.	CAD/CAM	2014-15	15	15	100.00	15
		2013-14	20	20	100.00	20
		2012-13	23	23	100.00	22
		2011-12	22	12	54.55	10
2.	EE	2014-15	23	23	100.00	23
		2013-14	29	29	100.00	29
		2012-13	30	28	93.33	28
		2011-12	34	31	91.18	31
3.	IPS	2014-15	16	14	87.50	14
		2013-14	18	18	100.00	18
		2012-13	21	20	95.24	16
		2011-12	21	12	57.14	12
4.	PROD ENGG	2014-15	21	20	95.24	20
		2013-14	17	17	100.00	17
		2012-13	41	34	82.93	34
		2011-12	20	9	45.00	9
5.	STRUC ENGG	2014-15	24	24	100.00	24
		2013-14	29	27	93.10	27
		2012-13	26	23	88.46	23
		2011-12	28	26	92.86	25
6.	COMM ENGG	2014-15	22	22	100.00	21
		2013-14	20	20	100.00	19
		2012-13	20	18	90.00	17
		2011-12	17	14	82.35	14
7.	CSE	2014-15	44	42	95.45	40
		2013-14	14	14	100.00	13
		2012-13	20	20	100.00	19
		2011-12	17	13	76.47	13
8.	VLSI	2014-15	42	41	97.62	40
		2013-14	19	19	100.00	19
		2012-13	19	19	100.00	18
		2011-12	18	15	83.33	15
9.	ENV	2014-15	7	7	100.00	7
		2013-14	1	1	100.00	1
		2012-13	5	5	100.00	5
10.	IT	2014-15	20	20	100.00	20
		2013-14	16	16	100.00	16

Criterion III: Research, Consultancy and Extension

3.1 Promotion of Research

3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Two separate committees have been working under the Chairmanship of Director R&D.

a) Research Centre Coordination

All departments have been recognized as centres for higher learning and research by the RTM Nagpur university. The committee consists of faculty coordinators from all departments. The committee has defined procedures, formats and flow charts of activities from admission to thesis submission, in all there are seven formats and three flow charts. All defined processes have been successfully implemented, the process and coordination has streamlined research by Ph.D. scholars. The committee developed three guidelines, three flow charts and nine formats all have been successfully implemented. Overall coordination and research output has significantly improved during last few years.

b) R&D Cell for other Activities

The committee consists of faculty representatives from all departments. The committee organizes programmes for the benefit of faculty and students. The committee helps faculty members in preparation and submission of funding proposals. Proposal review and guidance schedules organized by the cell has resulted in increase in approval of funding proposals, the college could submit proposals in all eligible schemes of AICTE, more proposals are being submitted to other agencies. The efforts of the cell has resulted in enhancement of funding from various agencies, to mention a few DST-FIST and AICTE-NAFETIC in recent years.

3.1.2 What is the policy of the College to promote research culture in the College?

Policies for Incentives: The College gives incentive for publication of technical papers in journal and conferences, securing grants from agencies, e.g. RPS or MODROBS proposal, concerned Principal Investigator will get 3% of the approved amount as incentive.

Policies for Attending Conferences in India and abroad: faculty members are given financial assistance for attending conferences in India

(Registration fees max. Rs. 5000/- + TA/DA as per rules), abroad, upto 70000/- per faculty.

In-house Minor Project Scheme: Up to Rs. One lacs per project for carrying out research.

3.1.3 List details of prioritised research areas and the areas of expertise available with the College.

Various departments in the college have identified thrust areas as per developmental needs. To strengthen the thrust areas all departments have also identified expertise areas of faculty members, depending upon their research and involvement. Faculty members normally offer UG/PG projects in the identified areas.

Prioritised Research Areas		
Department	Research Areas	Identified Faculty Members
Civil Engineering	Concrete and Structures	Dr.U.P.Waghe, Dr.A.M.Pande, Dr. A.V.Patil, Mr. V.G.Meshram, Dr. S.D.Bhole, Mr. R.S.Deotale, Dr.S.P.Raut, Mr. B.P.Nandurkar
	Utilization of Industrial Waste	Dr.A.M.Pande, Dr.A.V.Patil, Dr. S.D.Bhole, Mr. V.G.Meshram, Mr. A.L.Dandge, Mr. R.S.Deotale, Dr.S.P.Raut, Mr. B.P.Nandurkar
	Water Quality Study	Dr.S.V.Ambekar, Dr.S.R.Khandeshwar, Mr. C.S.Waghmare, Mr. K.S.Ansari
	Water Shed Management	Dr.S.R.Khandeshwar, Dr.A.R. Gajbhiye, Dr.S.V.Ambekar, Mr. R.R.Dighade, Ms. M.S.Bhagat
Mechanical Engineering	Machine Design	Dr. A.V.Kale, Prof. A.J.Bamnote, Dr. S.G.Mahakalkar, Prof. S.D.Kshirsagar, Dr. S.S. Khedkar
	Thermal Engineering	Prof. S.L. Bankar, Prof. S.S. Akant, Prof. N.J. Giradkar, Prof.V.M. Korade, Prof. R.G. Bodkhe, Prof.Y.Y. Nandurkar, Prof. N.K. Shrivastava
	Production Engineering	Dr. R. L. Shrivastava, Dr. S.S.Chaudhari, Dr. J.P.Giri, Prof. S.R.Jachak, Prof. A.S.Bonde, Prof. S. T. Bagde
	Material Engineering	Prof. B.D.Deshmukh, Prof S.P. Ambade
Electrical Engineering	Renewable Energy	Dr. R. M. Moharil, Mrs. S. P. Adhau, Mr. A. P. Munshi, Mr. P. B. Joshi, Mr. G. C. Gondhalekar, Mrs. X.R. Pote
	Power System & Power Quality	Mr. P. M. Meshram, Mr. S. P.Gawande, Mr. B. Y. Bagde, Mr. P. S. Patil, Mr. P. M. Deoghare, Mr. B. S. Sudame,

		Mrs. S. B. Rewatkar, Mr. S. S. Gokhale, J.M. Kumbhare, Ms. S. L. Tiwari, Ms. T.D. Tembhekar
	Drives and Automation	Dr. S. G. Kadwane, Mrs. A. Y. Fadnis, Mrs. N. T. Sahu, Mr. A. S. Lilhare, Mr. V. R. Doifode, Mr. A. R. Tikle
Electronics Engineering	VLSI Front / Back End Design	Dr. P. K. Dakhole, Mr. P. P. Zode, Ms. U. S. Ghodeswar, Ms. P. Palsodkar, Ms. Y.A. Gaidhani, Mr. S.M. Kakde, Ms. A.D. Tijare, Mr. P.M. Palsodkar, Mr. S.G. Somulu, Ms. R.S. Keote
	Embedded System Design	Dr. P. T. Karule, Mr. A.R. Zade, Mr. S.Y. Ambatkar, Mr. R.R. Himte, Mr. A.A. Parkhi
	Digital Signal / Image Processing	Prof. A. V. Gokhale, Prof. M. S. Pawar, Mr. V.D. Alagdeve, Ms. S.R. Nitnaware, Ms. R.S. Balpande, Ms. S.A. Dhondse Ms. P.P. Zode
	Wireless Communication / Network	Dr. Mrs. S. V. Rathkantiwar Mr. Y.A. Suryawanshi, Mr. A. B. Thatere, Ms. T.G. Panse, Mr. V.D. Bondre, Ms. M.N. Kalbande
Electronics and Telecommunication	Antenna Design	Dr. P. L. Zade, Dr. M. M. Mushrif, Dr. A. V. Bapat, Dr. A. S. Khobragade, Prof. M. S. Narlawar
	Wireless Communication	
	Embedded System	
	Digital Image Processing	
	Digital Signal Processing	
Computer Technology	Data Mining & Warehousing	Dr. M.M. Kshirsagar, Dr. M.M. Raghuvanshi, Ms. A.K. Khan, Mrs. P.A. Deshkar, Mrs. G. Choudgari, Ms. R. Ingle, Mr. S.S. Badhiye
	Bioinformatics	Dr. M.M. Kshirsagar, Ms. R.D. Wajgi
	Computer Network & Network Security	Prof. A.R. Bhagat Patil, Mr. N.U. Sambhe, Mrs. S.R. Kapse, Mrs. R. L. Jain, Mrs. A. Meshram, Mr. S. B. Ardhapurkar
	Digital Image Processing	Dr. M. M. Raghuvanshi, Dr. K.R. Singh, Dr. U.H. Gawande, Mr. S.D. Kamble, Ms. R.S. Khedgaonkar
	Natural Language Processing	Mr. S.J. Karale, Mrs. G.M. Dhopavkar
Information Technology	Digital Image Processing and Computer Vision	Dr. K.K. Bhojar, Dr. Ujwala Gawande, Mrs. N. R. Wankhade, Mrs. P. Jaiswal, Mr. Kamal Hajari, Mr. Mayur Khante
	High Performance Computer Networks	Mr. R.C. Dharmik, Mr. S.W. Shende, Mr. B. U. Bawankar, Mr. G. Yenurkar, Mr. S. S. Chavhan, Mr. R. S. Bhanuse

	Computer Network	Mr. M.K.Hadap, Mr. Sachin Jain, Mr. M. S. Deshkar, Mr. A. D. Gaikwad, Mr. Yogesh Golhar, Mr. Pankaj Hatwar
	Data Warehousing & Mining	Mrs. R.A.Fadnavis, Dr. K. K. Bhoyar Mrs. S. G. Kale, Ms. Disha Gupta Mr. Pratik Tambekar
	Material Engineering	Prof. B.D.Deshmukh, Prof S.P.Ambade
Applied Mathematics and Humanities	Fixed Point Theory	Dr.M.P.Gandhi,
	Algebra (Coding Theory)	Dr. K.L. Sarda, Dr.P.B. Bahatkar
	Relativity	Dr. V. G. Miskin
	Fluid Mechanics	Dr. S.C. Venkateshwarlu
	Cryptography	Mr. Akshay Meshram
	-Buddhist Art & Architecture -Society & Technology	Mr. Akash Daulatrao Gedam
	English Literature	Dr. P.K. Domle
Management, Brand Building and HR	Mrs. Arvinder Kour Mehta	
Applied Physics	Material Science (Ferroelectrics, Polymer)	Dr. S. A. Band Dr.S. A. Fadnavis Dr. J. R. Ghulghule Dr. H. V. Ganvir
Applied Chemistry	Bio-fuels	Dr. A.B. Bhake
	Waste Treatment	Dr. R.A. Patil, Dr. N.M. Limaye
	Catalysis	Dr. J.V. Miskin
	Lignin and Medicinal Chemistry	Dr. P.T. Kosankar

3.1.4 What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/projects?

- Funds are released immediately after receipt; the PI is expected to submit requisition.
- If needed funds are given to PIs anticipating receipt of grants.
- Full autonomy is give to the principal investigator/coordinator for utilizing overhead charges; however PI is expected to follow the procedures of college. There is no delay in release of grants. A/C section headed by CA starts auditing immediately, in normal cases there was no delay in submission of utilization certificate to the funding authorities.

3.1.5 How is interdisciplinary research promoted?

- Inter-disciplinary projects, especially at UG levels are encouraged between two departments. To mention few, 1. Development of laser based distance measuring device (Computer Technology and Civil Engg.) 2. Development of Horizontal Shake Table (Civil and Mechanical Engg.) there are many such examples. All departments are carrying out projects in collaboration with Industries. Some of the details are presented below:

Department of Mechanical Engg.

Collaborating Department	Year	Title of Project	Name of Guide from Dept.	Guide/Co-guide from other Dept.
Electronics & Telecommunication	2014-2015	Design and fabrication of Semi-automatic Wall Painting Robot	S.S.Akant	D.B.Bhoyar
Electronics	2013-2014	Compilation of PC based Dishwasher Machine Controller Kit	A. P. Edlabadkar	P.M. Palsodkar
Electronics	2013-2014	Compilation of PC based Washing Machine Controller	S.T.Bagde	M.S.Pawar
Civil	2011-2012	Study The Effect Of AL Variation In Zncu Microstructure If Hot Dipped Galcanised Coating	B.D. Deshmukh	Dr.A.M.pande

Department of Electronics

Collaborating Department	Year	Title of Project	Name of Guide from Dept.	Guide/Co-guide from other Dept.
CT	2014-15	Examination Methodology using embedded System	A.R.Zade	Gauri Choudhari
IT	2014-15	Automated Industrial Security System	Poonam Choudhary	G.K.Yenurkar
EL	2013-14	Pressure Based Energy Generation for Automatic Street Lights	A.A.Parkhi	A.P. Munshi
IT	2013-14	Spy Chopper	Y.A. Suryawanshi	M. Deshkar

CT	2013-14	Gesture Control Robotic Arm	S.R. Nitnaware	Prof. T.R. Ravi
ET	2013-14	Automated License Plate Recognition	V.D. Alagdeve	A.S. Khobragade
CT	2013-14	Developing a Real Time Testing of Gesture Based Robot Control using flex sensor & accelerometer	S.M.Kakde	S. D. Kamble
CT	2013-14	RFID based Attendance Monitoring system	A.R.Zade	Prof. T.R. Ravi
EL	2013-14	Maximum Power Demand controller	Y.A.Deodhe	R.M. Ghimonkar
CT	2013-14	Accident Rescue operation via SMS	Y.A. Gaidhani	Ms. Roshni Khedgaonkar
ME	2013-14	Automatic Vegetable Cutter	S.A.Dhondse	Mr.Bodkhe
CT	2012-13	Industrial Automation cum Security System	A.D.Tijare	Prof. T.R. Ravi
CT	2011-12	Industrial Automation System	S.Y. Ambatkar	Prof. T.R. Ravi

Department of Electronics & Telecommunication

Collaborative Department	Year	Title of Project	Guide from Dept.	Guide/Co-guide from other Dept.
CT	2013-14	Wireless Fingerprint based College Attendance System using Zigbee Technology	C. S. Gode	Prof. S.D. Kamble
ME		Automatic Dual Axis Solar Tracking System	N. A. Pande	Prof. A.P.Edlabadkar
CT		Text detection in blur Image and Audiobook Syncing	Y.K. Dubey	Prof. T.R.Ravi
IT		Live human Detection ROBOT for Earthquake Rescue Operation	N.A. Pande	
EE		FPGA Implementation of Image Compression and De-compression	A.A. Madankar	P.K.Dakhole
ME		An Autonomus Robot Based on GPS	M.S.Patil	Mechanical Dept. YCCE

Department of Computer Technology

Collaborating Department	Academic Year	Title of Project	Name of Guide from Dept.	Name of Guide/Co-guide from other Dept.
Electronics Engg.	2013-14	Gesture Controlled Robotic Arm	T.R.Ravi	S. R. Nitnaware
		Accident Rescue Operation via SMS	R.S. Khedgaonkar	Yashika Gaydhani
Electronics Engg. Civil Engg.	2012-13	Haptic Robotic Arm Using Voice and Gesture Recognition	Kruti Sharma	P.P. Zode
		Dimension and Deformation Measuring Instruments	R.L.Jain	Dr. A.M. Pande
		Analysis and Presentation of Earthquake Data	M.M. Kshirsagar	Dr. A.M. Pande
Civil Engg.	2011-12	Design of Dimensions and Deformation Measuring Instruments for Terrestrial Structures	R.L.Jain	Dr. A.M. Pande

Department of Information Technology

Collaborative Department	Academic Year	Title of Project	Name of Guide from Dept.	Name of Guide/Co-guide from other Dept.
EE	2014-2015	Live Human Detection in Earthquake	S.S.Chavan	Ms. Pandey (EE)
ET	2014-2015	Industrial Security Monitoring System	G.K.Yenurkar	P.Chudhari (ET)

Collaborative Projects:

Department of Civil Engg.

S N	Program me	Academic Year	Title of Projects	Name of Guide from Dept.	Name of Guide/Co-guide from industry / other institution
1	Civil - PG (Struct.)	2014-15	Parametric Studies on the behavior of Elevated water tanks during earthquake	Dr. A. M. Pande	Mrs. M.V. Dehadrai AQUADES Pvt. Ltd., Nagpur
2	Civil - PG (Struct.)		Analysis and Design of Cooling Tower	Prof. S.D. Bhole	Mr. Satish Mowade Executive Engg. Irrigation Dept
4	Civil - PG (Struct.)		Analysis and Design of supported Steel Tower Structure for Stack (Chimney)	Prof. S.D. Bhole	Mr. Satish Mowade Executive Engg. Irrigation Dept
5	Civil - UG	2013-14	Studies in the Condition Assessment of Building with Special reference to in-situ strength of Plastered Concrete	Prof. AV Patil	SP Kulkarni Structural Associate, Nagpur
6	Civil - UG		Detailed Analysis, Design by Manual & by Software and Costing of Megatownship	Dr. A.R. Gajbhiye	Mr. S.S. Raipure Structural Consultant Raipure and Consultant
7	Civil - UG		To analyse Traffic flow characteristic of selected strength of 'Hingna Road' identify the traffic problem and give an optimum solution	Dr. S.R. Khandeshwar	Er. Prashant Bargi Director General Manager Oriental Nagpur
8	Civil - PG (Struct.)		Seismic Analysis on Circular Overhead Water Tank	Prof. B.P. Nandurkar Prof. H.R. Nikhade	Mrs. M.V. Dehadrai Consultant AQUADES Ltd.
9	Civil - PG (Struct.)	2011-12	Performance Analysis of self-Compacting Concrete with use of Manufactured Aggregate & Partial Replacement of Cement by fly ash	Prof. A.V. Patil	Mr. Devendra Pande Ultratech Ready Mix Concrete, Buttibori, Nagpur

Department of Mechanical Engg.

S. N.	Year	Title of Project	Name of Guide from dept.	Collaborative Institution / Industry	Name of Guide/Co-guide from Industry / other Institution
1	2014-2015	Study of Chain Replacement	A.J.Bamnote	Morarji Textiles, Butibori, Nagpur	Team from Industry
2		Performance Evaluation of Robot Trajectory For Irregular Welding Path Using ROB-CAD	A.S.Bonde	Simens,India	Team from Industry
3		Trochoidal Path Validation of Cavity Manufacturing Using NX-CAM & FLEX Turn CNC Machine	A.S.Bonde	Simens,India	Team from Industry
4		Validation & Processes Simulation of Non Linear Cutter Trajectory For Profile Milling Operation Using NXCAM & Fleximill With SIMENS 828D Contour	B.D.Deshmukh	Simens,India	Team from Industry
5		Problem Identification & Solving On CNC Using Various Experimental Parameters	D.Y.Shahare	Palkar Industries, Nagpur	Team from Industry
6		Problem Identification & Solving On CNC Using Various Experimental Parameters	D.Y.Shahare	Palkar Industries, Nagpur	Team from Industry
7		Tackle System Modification	G.H.Waghmare	Mahindra & Mahindra, MIDC,Nagpur	Team from Industry

8		Conveyor System Modification	G.H.Waghmare	Mahindra & Mahindra, MIDC,Nagpur	Team from Industry
9		Design & Fabrication of Lifting Mechanism	G.H.Waghmare	Mahindra & Mahindra, MIDC,Nagpur	Team from Industry
10		Curve Fitting & Time Optimal interpolation on Flexmill CNC Machine using NXCAM	J.P.Giri	Simens,India	Team from Industry
11		Optimisation & Power Simulation of Non Linear Cutter Trajectory of Flexmill Machine	J.P.Giri	Simens,India	Team from Industry
12		Optimization of Heat Exchanger	S.R.Jachak	JSW Ispat, Kalmeshwar	
13		Productivity Analysis Of Single Miniute Exchange of Die	A.S.Bonde	Shri Sawaram Incense,MIDC ,Hingna Nagpur	Team from Industry
14		A case study on Manufacturing of Shrink sleeves	R.G.Bodkhe	Grip Tight Packaging Pvt. Ltd,Nagpur	Team from Industry
15		Mathematical Modeling to Inceze Productivity of Manufacturing Industry : Lever Manufacturing of Mahindra Tractors	S.G.Mahakalkar	Mahindra & Mahindra, Nagpur	Team from Industry
16	2013-2014	Optimum firm Selection of Spur Gear using MADM approch	S.R.Jachak	Kinetic Gears PVT LTD.& PKNs Industries Pvt. Ltd.	Team from Industry
17	2013-2014	Optimum Firm Selection of PVC Pipe Using MADM Technique	S.R.Jachak	Modigold Industries Pvt. Ltd. & Balaji Industries Pvt. Ltd.	Team from Industry
18	2013-2014	Reverse Engineering and CAD Modelling of Hexagonal	S.S.Akant	S.K. Fabricators Pvt.Ltd, Pardi, Nagpur	Team from Industry

		Head Bolt making Machine By Cold Forging			
19	2012-2013	Multi Attribute Decision Making Optimization Technique	A.S.Bonde	Marksons Radiator, MIDC,Nagpur	Team from Industry
21	2012-2013	Improvement In Magnesium Recovery In Ductile Iron	B.D.Deshmukh	Jaiswal Neco ,MIDC,Nagpur	Team from Industry
22	2012-2013	Quality Cycle Approach For The Reduction Of Spoilage And Wastage In Refractory Unit	S. R. Kulkarni	ACE Caldery ltd.Nagpur	Team from Industry
23	2012-2013	Optimization of Industrial Process	S.R Jachak	V.S.Auto.Pvt. ltd.Nagpur	Team from Industry
24	2012-2013	Design A Fixture And Mechanism To Fit Baering & Seal For Jolting Machine	S.S.Akant	Abhinav Engg.MIDC,Nagpur	Mr.Jadhav
25	2012-2013	Replacment Of CCLC Rollars & Modification In Swing Lever Assembly In Cotton Ginning Machine	S.S.Akant	Bajaj Steel Project Industries Ltd. Nagpur	Shri.Mahendra Modak
26	2012-2013	Automation In Mini Centreless OD Burnishing Machine (Excel Controlinkage)	S.S.Akant		Shri.P.Lanjewar
27	2011-2012	Improvement In Productivity By Using Quality Tools	A.J.Bamnote	Hightech Polymer, Butibori, Nagpur	Team from Industry
28	2011-2012	Energy Audit Of Rerolling Mill	M.R.Kotwal	Sharda Shree Ispat Pvt.Ltd, Butibori	Team from Industry
29	2011-2012	Productivity Improvement	M.R.Kotwal	Sharda Shree Ispat Pvt.Ltd, Butibori	Team from Industry
30	2011-2012	Design Of Heat Exchanger For Heating /Cooling Of Milk	N.J.Giradkar	Amul dairy, MIDC,Hingna	Team from Industry

31	2011-2012	Design of Seissor Lift	R.G.Bodkhe	Abhinav Engg.MIDC, Nagpur	Team from Industry
32	2011-2012	Design of Electromagnetic Separator Conveyor System In CHP	R.G.Bodkhe	Koradi Thermal Power Plant	Team from Industry
33	2011-2012	Design of Dryer And Facility Optimisation of Corrugated Boxes Manufacturing Plant	S.G.Mahakalkar	EXPOPACK, B-4,MIDC Hingna	Team from Industry
34	2011-2012	Productivity Improvement and Optimisation of Packaging Industry	S.G.Mahakalkar	Nagpur Carbon MIDC, Hingna	Team from Industry
35	2011-2012	Energy Conservation Using Electrical Drive	S.L.Bankar	Balaji Industries, K-45, MIDC, Higna Road, Nagpur	Team from Industry
36	2011-2012	Design Of Punch Press For Circlip	S.R.Jachak	Star Circlips & Engg. Ltd.,K-44,5-star zone, Buttibori,	Team from Industry
37	2011-2012	Design of Vibratory Bowl Feeder For Circlips	S.R.Jachak	Star Circlips & Engg. Ltd., K-44,5-Star Zone, Buttibori	Team from Industry
38	2011-2012	Modification of Router machine	S.S Akant	VIP Industries MIDC,Nagpur	Mr.Anil Tadas
39	2011-2012	Improvement of Tool Management System	S.S Akant	Excel linkages Pvt.Ltd.Higna MIDC,Nagpur	Mr.P.Lanjewar
40	2011-2012	Design of Solar Power Ed Economiser	V.M.Korde	Unijuels Life Sciences, Kalmeshwar Nagpur	Team from Industry
41	2011-2012	Rectification of Defficient Cooling And Lubricaton In Bearing of Turbochargers	V.M.Korde	WCL, Nagpur	Team from Industry

Department of Electrical Engineering

S.N	Academic Year	Title of Project	Name of Guide from Dept.	Collaborative Institution / Industry	Guide/Co-guide from Industry / Institution
1	2014-15	Automatic Bottle Filling Plant Using Programmable Logic Controller	B. Y. Bagde	Vasudhara Dairy" licensee of "Amul" MIDC Hingna, Nagpur	Er. A. Tandulkar Manager
2	2013-14	Case study of 765/400/200 KVA at Wardha	B. Y. Bagde	PGCIL, India	Er. Pramod Chimankar

Department of Electronics

S.N.	Academic Year	Title of Project	Name of Guide from dept.	Collaborative Institution / Industry	Guide/Co-guide from Industry / Institution
1	2014-15	GSM Based Antitheft Security System Using Face	S.S.Jaykar , A.V. Gokhale	Infosys	Mr. Anand Agrawal
2		Wireless Sensor Network for Industrial Applications	R.S.Keote, R.S.Balpande	Maxline Solutions	--
3		RFID Based Banking Security System	S.R.Nitnaware, Y.A.Gaidhni	SAP Controls Pvt. Ltd. Nagpur	Mr. Amar Akre
4		Dimmable LED Driver	Somulu G., Mrs.P.P.Zode	Unique Automation	Mr. Umesh Oke
5	2013-14	Wireless Hand Sensor	P. P Palsodkar	Shree Shakti Interprises	Mr.Vilas Bhojar Mr. Anand Pachunde
6		Text Reader For Visually Impaired	P.P.Zode	Automanifold Services	Mr.Anand Pachunde
7		Design of Low Cost Temp. Measuring Instrument	T.G.Panse	SAP Control	Mr. Amar Akre
8		GSM based Car Theft Intimation	A.V.Gokhale	Fujitsu Technology Pune	Mr.Anand Agrawal

		& Recognition System			
9		GSM Based LPG Monitoring System With Leakage Monitoring	A.V.Gokhale	Zero Point Energy	Mr. Mandar Tulankar
10		Digital Railway Signaling and Anti-Collision	P.M. Palsodkar	Siemens India	Dr. Jaideep Karkhais
11		ARM Based Biomedical System Using GSM	P.P.Zode	Unique Automation	Mr.Umesh Oke
12		Machine to Machine Communication for Home and Industrial Automation	M.S.Pawar	Qite Solutions, Nagpur	
13		Design of Barrel Shifter Using Complex Logic Structure	R.S.Balpande	Nano Chip Technology, Nagpur	Mr. Amol Walde
14		ARM 7 Based E-Notice Board	Mrs.P.P.Zode	Tieto ,Pune	Mr.Amit Khode
15		PLC Based Intelligent Traffic Control System	Mrs.P.P.Zode	SNW Automation	Mr.Vijay Deshkar
16		Automation of Chemical Mixing System Using PLC and SCADA	M.N. Kalbande	SAP Control	Mr.Anurag Isasare
17		Image Compression Using Verilog	R.S.Balpande	CPLAB , Nagpur	Mr Parag Hirulkar
18		Braille Mobile	Y.A.Gaidhni	VIPL ,Butibori	Mr. Amit Nigam

Department of Electronics & Telecomm.

S.N	Academic Year	Title of Project	Name of Guide from Dept.	Collaborative Institution / Industry	Guide/Co-guide from Industry / Institution
1	2014-15	Design and Implementation of print Antenna For	Prof. K.N. Dongre	RKNEC, Nagpur	Mr. Dipika Sagane

		Dongle Application			
2		Wireless Controlled Intelligence Security System	Prof. C.S.Gode	PIET, Nagpur	Prof. A.P.Deshpande,
3		Monowheel Self Balancing Vehicle	Prof. D. K. Thote	Anuraag Electronics	Mr. Avinash Kulkarni
4		COM Projector	Prof. K. P. Kamble	BSNL, Nagpur	Mr.P.B.Kamble
5		USB To USB Wireless Data Transfer	Prof. M.L.Keote	PIET, Nagpur	Mr. A.P. Deshpande
6		Wireless Air Quality Management Display	Prof. Y.S.Kale	Indorama Synthetic Pvt. Ltd. Butibori,	---
7		Multy Input Based Mobile Robot Navigation System	Prof. S.S. Chiwande	PCE, Nagpur	Prof. K.M.Bogawar
8		Wireless Automatic Irrigation System	Prof. M.S.Dorle	P.K.V, Akola	Dr.A.N. Mankar
9	2013-14	Moddelling of Hexadrone	Prof. R. P. Deshmukh	Zero Point Engg. Pvt. Ltd.	Mr. Mandar Tulankar
10		A 7 Bit 75 MSPS Low Power Pipeline A to D Converter	Prof. M.S. Ghute	P.I.E.T., Nagpur	Prof. A.C.Kaikule
11		Design & Implimentation of Fractal Antenna	Dr. P. L. Zade	Rajiv Gandhi College of Engg. Nagpur	Prof. Pranjali Jumle
12		Character Recognition & Identification From Data Based Using Image Processing	Prof. S. S. Katre	Asst.Comissioner of Traffic, Nagpur	Mr. M.S.Gawade
13		Map Based Floor Cleaner	Prof. S. A. Desai	RG CER, Nagpur	Prof. Yogesh Gaidhane
14		Voice Operated Smart Wheel Chair For Physically Handicapped Person	Prof. A. A. Mujumdar	Orthopedic Surgeon	Dr. Sushrut Babbhulkar
15		SAR ADC For Biomedical Application	Prof. P.P.Akre	P.I.E.T., Nagpur	Prof. A.C.Kaikule P.I.E.T., Nagpur

16		Multiple Node Network Using Zigbee	Prof. N. D. Rehpade	Awia group of Industries, Nagpur	Mr. Pravin Jain
17		Graphical LCD based Digital Oscilloscope using ATMEGA32	Prof.Y.S. Kale	RG CER., Nagpur	Prof. Ketan Machale
18		Wireless Mobile Charging Using Microwaves	Prof . M. S. Dorle	Reliance Communication, Pune	Mr. Parag Deshmukh
19		RF Based Bus Recognition System For Visually Impaired Persons (VIP)	Prof. D.K.Thote	Uttam Value Steel Ltd. Wardha	Mr. N.V. Gawande

Department of Computer Technology

S. N.	Academic Year	Title of Project	Name of Guide from Dept.	Collaborative Institution / Industry	Guide/Co-guide from Industry / Institution
1	2014-15	A Web Scraper For Extracting Alumni Information From Social Networking Websites	Prof. A.R. Bhagat Patil	Persistent Pvt.Ltd	Mr. Milind Umare
2		Data Analysis and Display using Big Data Concept	Mrs. R.D. Wajgi	Persistent Pvt. Ltd.	Kamlesh Ghoradkar
3		Starbus Public Transport System Guide using Android Application	Mr. S.B. Ardhapurkar	NMC, Nagpur	Satish Sadawarte
4	2013-14	2-Dimensional Gel Electrophoresis data analysis:A user-friendly tool for Protein Identification	Dr.M.M. Kshirsagar	MDS Bio-Analytics Pvt. Ltd., Nagpur	Dr.V.Raje, Mrs. Trupti Kahate Mrs. Rupali More
5		Providing Emergency Services Using Location Based Tracking	Prof. A.R. Bhagat Patil	Persistent Pvt. Ltd.	Mrs. Nidhi Mittal
6		Android Based Project Tracker	Dr. M.M. Kshirsagar	Persistent Pvt. Ltd.	Gandhar Patwardhan
7		International Energy Statistics Using MicroStrategy	Ms. G.A. Chaudhary	Infocepts, Nagpur	Ishan Agarwal, Aditya Nazir
8		MSEB Dashboard	Mr. B.L.Parne	Infocepts, Nagpur	Richa Heda, Divya Mani,
9	2012-13	Wi-Fi Share - An Application For	Ms. G. Chaudhary	Persistent Systems Pvt. Ltd., Nagpur	Team Persistent

		Information Sharing And Broadcast Messaging			
10		Business Intelligence project	Mr. S.D. Kamble	Infocepts, Nagpur	Team Infocepts
11		Mobile Tracking Application	Dr. M.M. Kshirsagar	Persistent Systems Pvt. Ltd., Nagpur	Team Persistent
12		Business Intelligence Project On Share Market Data	Prof A.R. Bhagat Patil	Infocepts, Nagpur	Team Infocepts
13	2011-12	Remote Desktop System Medoplus – A Medical Service Online Examination System	Dr. M.M. Kshirsagar Ms.Rasika Ingle	Persistent Systems Pvt. Ltd., Nagpur	Team Persistent

Department of Information Technology

S.N.	Academic Year	Title of Project	Name of Guide from Dept.	Collaborative Institution / Industry	Guide/Co-guide from Industry / other Institution
1	2014-2015	City Savior Web Portal	Mr. R.C.Dharmik	Persistent System	Mr.Anshul Jain
2	2013-2014	Navigation Using Sensor Fusion	Mr. R.C.Dharmik	Persistent System, Nagpur	Mr.Tusharpanpaliya
3	2013-2014	Automated Water Billing System	Mr. V.M. Baporikar	ADCC, Nagpur	Mr.Manish Ingle
4	2012-2013	Med Play Box	Mr. R.C.Dharmik	Persistent System	
5	2012-2013	Exim Analytics Dashboard On Indian Import Export	Mrs. R.A.Fadnavis	Infocept Technology, Nagpur	Mr.Manish Senger
6	2011-12	Web Site For Industrial Tranning Institute Goregao	Mr.M.S.Deshkar	ITI Goregaon	Mr.J.V.Dhole
7	2011-12	Software Quality Analyser	Mrs.R.A.Fadnavis	Softech Solutions, Nagpur	Mr.Sushil Pudke

3.1.6 Enumerate the efforts of the College in attracting researchers of eminence to visit the campus and interact with teachers and students?

The college arranges expert lectures of researchers of eminence based on the departmental needs and availability of experts. The college has specific policy of visiting professor ship. Senior Professors from IITs are invited under this scheme, they spend two to three working days with faculty and students every year. Their interaction in past has laid the path for streamlining research by faculty and enhanced quality of research based UG and PG projects. Details are given below:

Department	Visiting Professor	Level of interaction with faculty and students	Dates
Civil Engg.	Dr. G. Venkatachalam, Prof. Emeritus, Dept of Civil Engg, IIT Bombay	Interaction with Faculties, UG and PG Student	10- 11/02/ 2011
	Dr. G. Venkatachalam, Prof. Emeritus, Dept of Civil Engg, IIT Bombay		12-14/01/ 2012
	Dr. T.I. Eldho, Professor of Civil Engineering, IIT Bombay		09/10/2013
	Dr. G.Venkatachalam, Professor of Civil Engineering, IIT Bombay		17-18/02/ 2014
	Dr. Y. M. Desai, Professor of Civil Engineering, IIT Bombay		1/09/ 2014
	Dr. Y. M. Desai, Professor of Civil Engineering, IIT Bombay		10/02/015
Mechanical Engineering	Dr. D. M. Kulkarni Professor Mechanical Engg. BITS Goa	Interaction with Faculties, UG and PG Student	26-27/10/2013
	Dr. D. M. Kulkarni Professor Mechanical Engg., BITS Goa		10 11/03/2015
Electrical Engg.	Dr. K V Murthy, IIT Gandhinagar	UG (3 rd & 4 th year), PG (2 nd & 4 th Sem)	6-7/02/2013
	Dr.C.N. Bhende, IIT Bhuwaneshwar	VII sem ,MTech (IPS) Students and Faculty of Electrical Engineering Dept.	18-19/10/ 2013
		M. Tech (IPS) Students, PhD Candidates, Faculty	27/09/2014
	Dr.Amod Umarikar, IIT, Indore	UG (Final Year), MTech (IPS) II & IV sem	26-27/03/2015

Electronics Engg.	Dr. Durbadal Mandal NIT, Durgapur WB	Soft Computing Techniques For Faculty, UG & PG Students	24-25/03/2015
	Dr.K.M.Bhurchandi VNIT, Nagpur	ARM Processor & Embedded System for UG & PG Students	10-14/10/2014
	Dr.M.V.Joshi DAIICT, Gandhinagar	Signal Processing & Image Processing for UG & PG Students	21/02/2014
	Dr.Dipankar Nagchoudhary DAIICT, Gandhinagar	Devices & Circuits for UG Students	5-6/03/2013
	Dr.S.K.Sinha CEDT, IISc, Bangalore	Modern Processor Architecture for PG Students	8/02/2013
Electronics and Telecommunication Engg.	Dr. M. V. Joshi Prof Dhirubhai Ambani Institute of Info. & Comm.Technology	Interaction with Faculties, UG and PG Student	01-02/03/2013
	Dr. Hemant Patil Prof Dhirubhai Ambani Institute of Information & Communication Technology, Gandhinagar		26-29/09/2014
	Dr. Mahesh Abegaonkar, IIT Delhi		26-27/03/ 2015
Computer Technology	Er. Rajani Bhandari, Senior Project Managar, HCL Technologies Ltd, Noida, India	Interaction with Faculties, UG and PG Student	4/02/2014
	Prof. Naresh Jotwani, Professor, Dhirubhai Ambani Institute of Info. and Comm. Technology		22/09/2014
Information Technology	Dr.Maya Ingale Devi AhilyVishwavidhyalaya, Indore	Interaction with Faculties, UG and PG Student	10/03/2014
	Ms. Rajani Bhandari, Sr. Project Manager, HCL		04/02/014

3.1.7 What percentage of faculty have utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the College?

The college provides 30 days special leave to faculty members pursuing doctoral research. About 15-20% faculty members have availed these leave. Timely completion of research, sufficient interaction with guides and improving quality of research by visiting and interacting experts were main advantages of these leave. This has enhanced the confidence of faculty pursuing doctoral research.

3.1.8 Provide details of national and international conferences organized by the College highlighting the names of eminent scientists/scholars who participated in these events.

S.N.	Dept	Title of Conference	Dates	Collaboration with	Participating Eminent Scholars
1	CE	Nat. Conference on, Challenges and Recent Advances in Environmental Management	25/03/2011	--	Dr. Satish Wate Dr. A.R. Tembhurkar, Dr. A.N. Shrikhande, Dr. Labhsetwar, Dr. Khadse
2	CE	International Conference on Disaster Management	13-14/03/2014	SEGi University Malasia	Prof. B. Bhattacharya Dr. D.P. Mase Prof. Hasan Tambi Ms. Archana Sarkar
3	CE	National Conf.on Current Trends in Civil Engg	18-19/12/2014	--	Prof. M.S. Kadu
4	CE	Advances in Engineering Technology and Applied Sciences	12-13/03/2015	--	Dr. A.R.Tembhurkar Prof. S.R. Mude Ms. Neha Deshmukh
5	CT	International Conference on Innovations and Trends In Applied Computing	1-3/02/2012	Harvard University, USA	Dr. Tom A. Eppes Dr. Devdas Shetty Dr. Ivana Milanovic Dr. Jenna Daly Dr. Lyutsia S. Fautova Dr. Khaled J. Hammad Dr. Bopana Chowdary Dr. Christian Phillips
6	CT	National Conference on Advances in Engineering and Applied Sciences	21-22/03/2013	--	Mr. H. Shewale Mr. Sameer Patil Mr. V.Deshmukh Ms. Pragya Singh Mr. Irman Ali Mr. Praveen Kumar Mr. Satyaprakash
7	EE	Nat. Conference on Recent Trends in Engg and Tech	17-18/02/2011	--	--
8	EL	Recent Trends in Renewable Energy Systems	11-15/10/011	ISTE, New Delhi	Dr. S. G. Pohekar Dr. P. S. Kulkarni
9		Emerging Trends and Applications of Solar Systems	05-06/12/2013	AICTE, New Delhi	Dr. S. S. Dambhare
10	ME	Spandan – National Conference	28-29/02/2012	ADCC & Dysmech Consultancy Services	--

3.1.9 Details on the College initiative in transferring/advocating the relative findings of research of the College and elsewhere to the students and the community (lab to land).

S.N.	Dept.	Year	Details of Project/ Research	Important Outcome	Beneficiaries
1	CT	2010-2013	Application of Rough Set Theory in Face Recognition under Pose and Illumination Variations	Facial Database Creation which can be used for Research Equipments Procured can be used by the Students to carry out Research	Faculty and Students

3.1.10 Give details on the faculty actively involved in research (Guiding student research, leading research projects, engaged in individual or collaborative research activity etc.)

Guiding Research Students:

Details of faculty members guiding scholars in the college research centre is given below:

Department	Name of Guide	Thesis Submitted	Ph.D. Awarded	Current Strength of Scholars
CE	Dr. A.R. Gajbhiye	1	0	3
CE	Dr. U.P. Waghe	0	2	2
CE	Dr. A.M.Pande	1	6	3
CE	Dr. S.R. Khandeshwar	0	0	7
ME	Dr. R.L. Shrivastava	4	7	12
ME	Dr. A.V. Kale	1	1	2
ME	Dr. S.S. Chaudhary	0	0	5
EL	Dr. S.G. Kadwane	0	0	5
EE	Dr. P. T. Karule	2	1	4
EE	Dr. P.K. Dakhole	1	0	7
EE	Dr. Mrs. S.V. Rathkantiwar	0	0	1
ET	Dr. P.L. Zade	0	0	8
ET	Dr. M.M. Mushrif	1	1	6
CT	Dr. Mrs. M.M. Kshirsagar	1	0	7
IT	Dr. K.K.Bhoyar	0	0	7
Maths	Dr. Mrs. M.P. Gandhi	0	0	2
Physics	Dr. Mrs. S.A. Band	0	0	1
Chem	Dr. P.T. Kosankar	3	0	3
Chem	Dr. A.B. Bhake	0	0	5

Faculty Members Engaged in Research Projects:

Many faculty members are carrying out research even after completion of Ph.D., focus is given on thrust areas identified by various departments. Pursuit for research has resulted in submission of funding proposals, many were lucky to get financial assistance. Details of some research proposals are given below:

S. N.	Funding Agency	Scheme	Dept.	Name of Faculty	Title of Project	Amount (Lacs)	Date of Approval
1	AICTE	MODROBS	EE	Dr. P.K. Dakhole	Modernization of VLSI Digital System Design Laboratory	9.82	30/03/2011
2	AICTE	RPS	CT	Mrs. Kavita Singh	A Robust Face Recognition System Under Varying Pose And Illumination Conditions	7.00	31/03/2011
3	AICTE	MODROBS	EL	Dr. R.M. Moharil	Modernization of Advanced Drives Lab	8.10	07/03/2012
4	AICTE	MODROBS	IT	Dr. K.K. Bhoyar	Modernization of Advanced Computing Laboratory	10.00	07/03/2012
5	AICTE	NAFETIC	ME	Dr. S.P. Untawale, Dr. A.V. Kale Dr. J.P. Giri	Siemens centre of excellence for Digital Manufacturing and Robotics	40.00	31/07/2013
6	AICTE	RPS	EL	Dr. S.G Kadwane	Analysis of Z Source Converter For Photo Voltaic Application	12.40	11/03/2013
7	AICTE	RPS	ME	Dr. R.L. Shrivastava	Design, Fabrication, Performance Analysis and Optimization of Optically Concentrated Solar Water Heater using TRNSYS based Model Simulation	4.55	11/03/2013
8	DST	FIST	YCCE	Principal & College Team	College as a whole	15.00	Sept 2014
9	UGC	Minor	Maths	Dr. M.P. Gandhi	Fixed Point Theory	2.54	Sept' 2014
10	AICTE	RPS	ET	Dr. M.M. Mushrif Mrs. Y.K. Dubey	Design of Embedded System for Quantitative Analysis and Assessment of Brain Images	4.67	18/03/2015
11	AICTE	RPS	ME	Dr. A.V. Kale	Performance evaluation of automated rotary compression pipe bending mechanism	16.47	16/03/2015
					Total Amount	130.55	

An innovative project is taken up by the institution in collaboration with DMIMS (DU) a Medical Institution, the details are given below:

Project Title – Development of Neonatal Assessment tool for vital sign monitoring

The project is in collaboration with Harvard University, USA and DMIMS Wardha.

Project Investigator: Dr. Anuraj Shankar, Sr. Research Scientist,
School of Public Health, Harvard University,

Project Director: Dr. Quazi Syed Zahiruddin,
Professor, JN Medical College, DMIMS Wardha

Site PIs (DMIMS): Dr. B. Lakhkar,
Dr. Abhay Gaidhane,
Dr. Sachin Damke

Site PIs (YCCE): Dr. M. M. Mushrif, Prof. ET Dept,
Dr. K. K. Bhoyar, Prof. IT Dept.

Co- PIs (YCCE): Ms. Yogeeta K. Dubey, Asst. Prof. ET Dept,
Mr. Mayur Khante, Asst. Prof. IT, YCCE

Brief information about the project:

The aim of this project is to develop a Neonatal assessment tool for Rapid diagnosis of frail and sick newborns with a handheld vital sign monitor.

A hand held device such as mobile phone is used to capture the ambient light videos and the thermal videos of new born babies.

YCCE team will be involved in this project for the following

- Develop algorithms for measurement of heart rate (HR) and respiration, blood oxygen saturation (SpO₂) using video only.
- Develop algorithms for measurement of advanced indicators such as - heart rate variability, resp. rate variability, SaO₂ coherence with other signs, temperature differentials of limbs, movement and complex anatomy.
- Finally obtain a vital sign monitoring score (VSM score) using machine learning techniques.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization for last four years.

Normally budget provided for R&D activities is in between 0.5% to 1%. Areas covered include-

- Paper Presentation in India
- Paper presentation outside India
- Workshops etc. organized
- Guest Lectures organized to promote R&D
- Departmental Magazines
- Special events (Co-curricular) organized
- Expenses for Student's Projects and
- Specialised R&D equipments procured. In addition the departments are advised to procure specialized R&D equipments through their annual budget.

Details are presented below:

DEPARTMENT-WISE ACTUAL EXPENSES FOR 2011-12

Sr.No	Details	CE	CT	EE	EL	ET	IT	ME	I Year	YCCE Total
1	International Conference & Paper presentation in India	21643.00	761738.00	118772.00	63612.00	57363.00	14627.00	42094.00	0.00	1079849.00
2	Paper presentation in Out side India	420000.00	7500.00	83751.00	0.00	120659.00	0.00	0.00	0.00	631910.00
3	Work Shop & STTP & ISTE	75976.00	103271.00	51569.00	3403.00	18816.00	77099.00	3442.00		333576.00
4	Guest Lecture	10801.00	25324.00	3609.00	4495.00	6451.00	11792.00	6530.00	4276.00	73278.00
5	Magazine	40698.00	12500.00	12300.00		12000.00		71500.00		148998.00
6	Organising co-curricular Activities of Students	0.00	0.00	0.00	0.00	0.00	0.00	347571.00	0.00	347571.00
7	Student Project	14188.00	47572.00	87503.00	16281.00	0.00	0.00	121001.00	0.00	286545.00
	Total	583306.00	957905.00	357504.00	87791.00	215289.00	103518.00	592138.00	4276.00	2901727.00

DEPARTMENT-WISE ACTUAL EXPENSES FOR 2012-13

Sr.No	Details	CE	CT	EE	EL	ET	IT	ME	I Year	YCCE Total
1	International Conference & Paper presentation in India	26383.00	0.00	46137.00	51349.00	71305.00	9444.00	81099.00	23361.00	309078.00
2	Paper presentation in Out side India	0.00	7500.00	48459.00	51035.00	0.00	0.00	0.00	121558.00	228552.00
3	Work Shop & STTP & ISTE	10706.00	181004.00	85250.00	31248.00	35714.00	1300.00	67719.00	45071.00	458012.00
4	Guest Lecture	10991.00	31080.00	15530.00	5000.00	6331.00	7070.00	4012.00	4130.00	84144.00
5	Magazine	44100.00	32800.00	33500.00	2500.00	0.00	10500.00	0.00	0.00	123400.00
6	Organising co-curricular Activities of Students									279819.00
7	Student Project	0.00	0.00	0.00	0.00	0.00	0.00	35000.00	0.00	35000.00
	Total	92180.00	252384.00	228876.00	141132.00	113350.00	28314.00	187830.00	194120.00	1238186.00
Total Budgeted for R&D = 1800000										

DEPARTMENT-WISE ACTUAL EXPENSES FOR 2013-14

Sr.No	Details	CE	CT	EE	EL	ET	IT	ME	I Year	YCCE Total
1	International Conference & Paper presentation in India	34320.00	11205.00	116307.00	12709.00	48864.00	4500.00	30542.00	28904.00	287351.00
2	Paper presentation in Out side India	168167.00	0.00	0.00	0.00	110147.00	0.00	0.00	50000.00	328314.00
3	Work Shop & STTP & ISTE	62718.00	193563.00	17844.00	102120.00	14387.00	228202.00	166891.00	7715.00	793440.00
4	Guest Lecture	21392.00	54831.00	15299.00	12437.00	16542.00	14455.00	9127.00	11257.00	155340.00
5	Dept. Magazine	0.00	23000.00	24500.00	0.00	52500.00	24000.00	52500.00	0.00	176500.00
6	Organising co-curricular Activities of Students									477270.00
7	Student Project	110300.00	15423.00	164485.00	9101.00	45378.00		13133.00		357820.00
	Total	396897.00	298022.00	338435.00	136367.00	287818.00	271157.00	272193.00	97876.00	2098765.00
Total Budgeted for R&D = 5200000										

DEPARTMENT-WISE ACTUAL EXPENSES FOR 2014-15

Sr.No	Details	CE	CT	EE	EL	ET	IT	ME	I Year	YCCE Total
1	International Conference & Paper presentation in India	27290.00	18075.00	65472.00	21242.00	43839.00	11775.00	128494.00	31541.00	347728.00
2	Paper presentation in Out side India	127532.00		70000.00				70000.00		267532.00
3	Work Shop & STTP & ISTE	331986.00	186810.00	129656.00	31667.00	23488.00	12557.00	90333.00	61297.00	867794.00
4	Guest Lecture	3240.00	42436.00	9240.00	13408.00	8886.00	6680.00	1700.00	5561.00	91151.00
5	Dept. Magazine	23000.00		27500.00		12500.00				63000.00
6	Organising co-curricular Activities of Students	293077.00	122563.00	69286.00	52587.00	69286.00	32710.00	321399.00		960908.00
7	Student Project	52883.00	20826.00	26095.00				124624.00		224428.00
8	Special R&D Equipments	2091637.00			58058.00	96345.00		115574.00		2361614.00
	Total	2950645.00	390710.00	397249.00	176962.00	254344.00	63722.00	852124.00	98399.00	5184155.00
Total Budgeted for R&D = 2700000										

3.2.2 What are the financial provisions made in the College budget for supporting student research projects?

Financial provisions are made in the departmental budget; details of expenses on student's projects are given below:

Academic Year	Total Expenses (In Rs. Lakh)
2014-15	2.24
2013-14	3.57
2012-13	0.35
2011-12	2.86

3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years?

The college is committed for initiating and completing faculty research. For want of fund research is never hampered in this college, the college provides funds as and when desired. Provisions are made in annual budget for purchase of major or minor equipment intended for research, equipments are procured every year preferably in first quarter of academic year. Amount required for consumables and contingencies is provided to faculty members. Departments with higher requirements for consumables for research (Civil Engineering, Mechanical Engineering, Chemistry etc.) specific provisions are made in annual budget.

3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.

The R&D Cell has a division looking after patents, the team identifies potential projects for patenting, guides the investigators in compiling information and assists in submission of applications. Details of applications are given below:

S N	Dept	Year	Name(s) of Faculty Members	Title of Application	Date of filing/ref no.	Status of Application
1	CE	2013-14	Dr. S. V. Ambekar	Anode Cathode And Separator In Microbial Fuel Cell(MFC) For Treatment of Wastewater And Electricity Generation(28/09/2013)	28/09/ 2013	2
2	CE	2011-12	Dr. A.V. Patil Dr. S.P. Raut	Structural Unit Having Expanded Metal Mesh Reinforcement &method For Manufacturing The Structural Unit	13/07/2011	Pending

3	ME	2013-2014	Dr. R.L. Shrivastava	High Grade Solar Liquid Heater	29/12/2014 4204/MUM/2014	In Process
4	EL	2013-14	Dr. R. M. Moharil	The Online Comprehensive System Monitoring, Controlling, Metering and Protection Of Domestic/Distributed Generation	Date of filing :- 29/4/14 Ref. No. 1502/MUM/2014 A	Patent published
5	EE	2014-15	Dr. P.K. Dakhole	Low Power Quaternary (CAM) Cell	TEMP/E-1 /4333/2015-MUM dated 18/02/2015	Filed
6		2006-07	Dr. A.M. Dighe	Data Converters for Multiple Access and Other Applications	72/MUM/2009 dated 15.01.2007	Filed
7		2008-09	Dr. A.M. Dighe	Generalized R-C, R-L and R-L-C Oscillators using Reconfigurable Feedback	420/MUM/2009 dated 25.02.2009	Filed
8		2014-15	Dr. Shubhangi Rathkanthiwar	A Novel Approach to Improve Bit Error Rate Performance of OFDM System	2439/MUM/2014 dated 28/07/2014	Filed
9		2012-13	Dr. Shubhangi Rathkanthiwar	Performance Improvement in OFDM Transceiver System Through Self Organizing Artificial Neural Network	4096/MUM/2013 dated 27/12/2013	Filed
10		2013-14	Sandeep M. Kakde	Intelligent Diabetes Management System	2499/MUM/2013 dated 29/07/2013	Filed
11	CT	2014-2015	Dr. Ujjwalla Gawande	IRS Based Feature Extraction	CBR No. 15941 Refernce Number E-2/2858/2014-MUM Application Number-2229/MUM/2014	Pending

3.2.5 Provide the following details of ongoing research projects:

Scheme	Year	No.	Name of the Project	Name of the funding agency/Industry	Grant received (In Rs. Lakh)
A. College funded					
Minor Projects (In House Minor Project Scheme Floated by the Group)	2014-15	1	Development Of High Performance Masonry Mortar	NYSS	1.00
	2014-15	1	Experimental Investigation On PV Module In Different Cooling Conditions	NYSS	1.00
	2013-14	1	Design , Fabrication , Performance Analysis and Optimization of Optically Concentrated Solar Water Heater Using TRYNYSYS Software Based on Model Simulation	NYSS	0.80
B. Other agencies - National and International (specify)					
Minor projects					
UGC-Minor	2013-14	1	Fixed Point Theory	UGC	2.54
Major Projects					
DST-FIST	2014-15	1	DST-FIST (Research)	DST	15.00
Research Promotion Scheme (RPS)	2015-16	1	Design of Embedded System for Quantitative Analysis and Assessment of Brain Images	AICTE	4.67
Research Promotion Scheme (RPS)	2015-16	1	Performance Evaluation of Automated Rotary Compression Pipe Bending Mechanism	AICTE	16.47
MODROBS	2015-16	1	Modernisation of Thermal Power Lab	AICTE	16.47
Other Schemes					
C. Industry Sponsored					
NAFETIC	2012-13	1	Siemens Centre of Excellence For Digital Manufacturing And Robotics	AICTE & Siemens India	40.00 + Equipment /Software from Siemens (40 Lakhs)

3.2.6 How many departments of the College have been recognized for their research activities by national / international agencies (UGC-SAP, CAS, DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthrough due to such recognition.

The Rashtrasant Tukadoji Maharaj Nagpur University has recognised all departments as approved centres for higher learning and research. The college has received funding of Rs. 15 Lakh + 15 Lakh (Contribution by College), the amount was received in financial year 2014-15 under DST-FIST. The college has received of Rs. 18 lakhs earlier.

3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/National/International agencies).

	Year wise	Number	Name of the project	Name of the funding Agency/Industry	Grant received (In Rs. Lakh)
A. Other agencies - National and International (specify)					
Minor Projects					
Seminar Grant	2012-13	1	International Conference on Disaster Management	AICTE	3.00
Seminar Grant	2012-13	1	Workshop on Emerging Trends and applications of solar systems	AICTE	1.00
Innovation Promotion Scheme	2012-13	1	Innovations 2013	AICTE	1.50
UGC-Minor	2013-14	1	Fixed Point Theory	UGC	2.54
Seminar Grant	2013-14	1	Emerging trends in Mathematics and its applications in Science and Engineering	DST	0.75
Major Projects					
Research Promotion Scheme	2012-13	1	Analysis of Z Source Converter For Photo Voltaic Application	AICTE	12.40
Research Promotion Scheme (RPS)	2012-13	1	Design, Fabrication, Performance Analysis and Optimization of Optically Concentrated Solar Water Heater using TRNSYS based Model Simulation	AICTE	4.55

Research Promotion Scheme (RPS)	2015-16	1	Design of Embedded System for Quantitative Analysis and Assessment of Brain Images	AICTE	4.67
Research Promotion Scheme (RPS)	2015-16	1	Performance Evaluation of Automated Rotary Compression Pipe Bending Mechanism	AICTE	16.47
Modernisation of Laboratories					
MODROBS	2011-12	1	Modernization of Advanced Drives Laboratory	AICTE	8.10
MODROBS	2011-12	1	Modernization of Advanced Computing Laboratory	AICTE	10.00
Other Schemes					
IIPC	2013-14		To Establish an Industry Institute Partnership Cell In Collaboration With the Interested Industries For Conducting the Various Industry Institute Joint Activities	AICTE	12.40



International Conference on Disaster Management

3.3 Research Facilities

3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate Research? How and what strategies are evolved to meet the needs of researchers?

- The college allocates over Rs. 1.00 Crores every year for departmental needs to procure equipments.
- In addition to requirements for lab courses, the departments propose additional equipment to cater research needs.
- Faculty members are guided to submit funding proposals to various agencies.
- Faculty members are motivated and guided to submit proposals under In-house Minor Project scheme floated by the parent organization.
- Requirements of research scholars are normally taken care in the budget by respective departments.

3.3.2 Does the College have an information resource centre to cater to the needs of researchers? If yes, provide details on the facility.

The college has a digital library, over 2952 e_journals are subscribed annually to cater to the needs of researchers. In addition the college has purchased around 11000 E-books.

Details on the library holdings are :		Total No.
a) Print	Books (Engg. and other)	87723
	Back volumes	3422
	Thesis	Nil
b) Non Print (Microfiche, AV)	VODs, DVDs, VCDs, CDs	1202
c) Electronic	E-books (Mandatory)	2088
	E-books (Springer and Wiley)	9765
	E-Journals	2952
d) Special collection	Text books (Engineering)	84329
	Reference books & standards	8847
	Patents	Nil

Total No. of Titles, Books, Journals with respective amount Up to 31/07/2015

No. of Titles	No. of Volumes	Total cost In Rs.	No. of National Journals	No. of International/ e- Journals	Total cost In Rs.
32994	101520	3,33,87,764	179	2952	1,11,92,243

Branch wise position of Books and Journals Up to 31/07/2015

S.N.	Branch	Books		Journals	
		No. of Titles	No. of Volumes	National Journals	International/e-Journals
1	CT	4587	14164	12	2833
2	IT	1006	3769	07	
3	EE	2350	11617	11	
4	ET	904	5722	15	
5	EL	1736	9658	13	
6	CE	3149	11875	13	35
7	ME	4364	13972	26	28
8	Applied Sciences & humanities	2803	11902	22	
	Total (1 to 8)	20899	82679	119	2896
	B. PG Course				
1	CSE	189	948	10	2833
2	IT	162	439	05	
3	Electronics	507	1560	05	
4	VLSI	181	838	10	
5	Communication	178	600	05	
6	IPS	495	1232	05	
7	Structural	669	1441	05	35
8	Environmental Engg.	128	411	05	
9	CAD/CAM	458	1156	05	28
10	PR	573	1350	05	
	Total (1 to 10)	3540	9975	60	
	C. Other				
1	EAT	583	1060	---	
2	GE	2149	2605	---	
3	PD	266	299	---	
4	E-books (Mandatory)	2088	2088	---	
5	E-books (Springer)	9703	9703		
6	Bound volumes	3422	3422	---	
	Total (1 to 6)	18211	19177	173	
	Total (A to C)	42650	111831		

3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?

There is no residential facility, however researchers are permitted to use computers and laboratory beyond college hours. The library has extended hours and is open on holidays. The campus has wi-fi facility, students are permitted to use this facility throughout the day.

Every department in the college possesses laboratories equipped with computers, internet facility and software needed for research, faculty members and students are given access to these laboratories and software.

Details of Centre Computing Facilities in the Institute

SN	Particulars	Details
1	Central Computing facility is available	Yes
2	Number of P-III or equivalent and above PC	1833
3	Whether legal licenses of System & Application Software	Yes
4	Number of System Software's	42
5	Number of Applications Software's	106
6	Number of Printers available (Type: DMP/ DeskJet /LaserJet)	160
7	Number of Scanners available	24
8	Total cost of the printers and scanners	Rs.33.00 Lac
9	Generator / UPS back-up	Yes
10	Campus is Networked	Yes
11	Laboratories are Networked through LAN	Yes
12	Internet connection is available	Yes
13	Bandwidth Available	40 Mbps
14	Cost of Hardware in Computer Center	Rs. 37.13 Lac
15	Cost of Software in Computer Center	Rs. 20.20 Lac
16	Cost of Furniture in Computer Center	Rs.7.14 Lac
17	Annual fee of the Internet Services	Rs. 5.00 Lac

Details of Software Available

SN	Software
1	PSCAD/EMTDC V3
2	ICAP/4-Windows With Power Deluxe
3	Borland Turbo C++ Suite
4	Ms Windows 98 OEM
5	Matlab Simulink Power System Blockset
6	Pism Software
7	SKM Power Tool

8	PSCAD/EMTDC Software Upgradation
9	Microsoft Visio Prof 2003 MOLP
10	Simpower System Software Plecs
11	Hardware Sale Software Plecs
12	Vissim S/W With T1f2407 H/W Kit & USB Dongle (PE Lab)
13	Caspoc Software (Pe Lab)
14	Orcad PCB Professional Autorouter(NA Lab)
15	Common Manager Software
16	Win SI 8.1 SNGL Olp Academic Legalization
17	Autocad 2002
18	Catia V5
19	Pro-Engineer
20	Ansys Multiphysics
21	Autodesk Inventor
22	Autodesk Map Series-2004
23	Pro-Engineer (2005)
24	CNC Train Software (Lathe/Milling)
25	Pro-E (V-Plus) Electronic Media
26	Ansys Software
27	Sp-Nxcacad100 (Nx-Cad)Techomatrix Robcad Technometrics Factory CAD
28	Autocad 2010
29	Autodesk Land Development Desktop 2004
30	SAP 2000 Advanced
31	Etabs
32	Autodesk Educational Solution Set
33	Photomod Network With License
34	Struds Adv 2007
35	STAAD PRO 8i
36	Instaplan III Scholar
37	Qattra-Pro For Windows Scholar
38	Turbo Pascal 7.0
39	Visual Studio Version 6
40	Ms Office 2000
41	Windows NT Server

42	Windows NT Workstation Ver 4.0
43	Windows NT Advance Server Ver3.1
44	Novell Netware 3.12
45	Oracle 8 Enterprises
46	3D Studio
47	Windows 98
48	Ms Office 97
49	Windows 95
50	Novel Netware 4.11
51	Ms Windows OEM (2000 Pro)
52	Ms Windows Millenium ME
53	Redhat Official Linux
54	ISM Software With Hardware Lock
55	Novel Netware 3.12
56	Word Perfect
57	Ms Small Business Server, Windows 2000, Ms Frontpage 2000, Outlook 200
58	Microsoft Windows 2000 Server
59	SQL Cal +Sa
60	Windows XP Professional
61	Windows XP Home
62	Office XP Professional 2002 AE
63	Norton Antivirus For Novell Netware Multiuser
64	Microsoft Office Professional 2003
65	Microsoft .Net 2003
66	Adobe Acrobat 7.0 Pro
67	Borland JBuilder 2005
68	Smartdraw Suit Editon
69	Crystal Reports Professional
70	Rational Rose Software
71	E-Trust Antivirus 7.1
72	Oracle 10.2.0.1.0
73	Microsoft Windows Server 2003
74	Microsoft Windows Server 2003 Cal OLP NLAE
75	Studio 8 Macromedia Director

76	CA ITM 8.1
77	Stellar Shield
78	Macromedia 2004 Prof.
79	Ms Win Vista
80	Ms Visual Studio 2008 Pro.
81	Ms Office 2007 Pro.
82	Oracle Workforce Development Program (WDP)-1,2,3,4
83	Matlab Software
84	Autodesk Product 3D Studio Max 2009 Soft.
85	Ms Product MSDN Academic Alliance 7.0 Win 32 English Intl
86	Autodesk Product Maya 2009
87	Adobe Acrobat 9 Pro
88	Antivirus Net Protector/Quick Heal
89	Data Recovery Software Phonix Full Pack
90	DSP Starter Kit
91	Proteus (Software)
92	Digital Media Developer
93	Bloom With DSP Software
94	Code Composer Studio
95	CAD FEKO FM Simulation
96	Beagel Board (Kits & Soft)
97	Keil Software
98	Matlab (ADCC)
99	Xilinx
100	Microwave Office
101	Kaspersky Endpoint Security For Business (Antivirus)
102	Matlab VER 6.5
103	Matlab VER 6.1
104	Mentor Graphics
105	Orcad
106	Altera Quartus & Niosii
107	Lab View Software
108	Tanner Tools

3.3.4 Does the College have a specialized research centre/ workstation to address challenges of research programmes? If yes, give details

Dept.	Details	Equipment cost used for Research (In Rs. Lakh)
CE	Specialised equipment in CT, Structures, Geotechnical Engg., WSSE, Air Pollution, Environmental Chemistry & Computer labs.	66.57
EL	Total no. of equipments purchased (including computers, printers, meters for measurement and testing etc:785	49.05
EE	Hardware Resources- Fluke Model Calibration Setup, PCB Prototype Machine , Xilinx Latest FPGA Kits, Texas Analog Discovery Kit, ELVIS Boards, Digital Storage Oscilloscope ,Microcontroller Boards	34.00
	Software Resources -Altera Quartus II and Nios II Software, Xilinx ISE, Mentor Graphics VLSI Design Suite, Cadence Orcad, VLSI Tanner Tools, Microwind License Copy , Proteus Software, Labview Software, Matlab	38.00
Phy	LCR, Digital Monopan Balance , Accessories for high temp furnaces , Chemical s, silver paint, Centrifuge machine , Cyclomixer , PH meter , Chemicals	1.51
Chem	Basic Equipment 11 Nos.	2.05
CT	Hardware in Research lab and Softwares	20.01
ME	Siemens Software, CNC Milling Machine, CNC Turning Machine, Engine Test Rig, RAC Test Rig Wind Tunnel, Torsion Testing Machine, Surface Roughness Tester, MIG Welding Setup	44.87
ETC	CAD FEKO, Vector Network Analuzer 8 GHz, Spectrum Analyzer 03 GHz, Spectrum Analyzer 01 GHz, MIC Trainer Kits, Fibre Optic Communication Kits, Antenna Trainer Kits, MATLAB Software, Code Composer Studio, Beagle Board, Bloom with DSP, DSP Kits	47.00
IT	Oracle 11g (single user), Matlab 2015(mathwork suit), Microsoft visual studio, IDASM (DATA MINING TOOL) SINGLE USER Informatica (DATA MINING TOOL), Plagiarism Checker X	1.05

3.2.5 Does the College have research facilities (centre, etc.) of regional, national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

All departments in the college are approved centres for higher learning and research by the Rashtrasant Tukadoji Maharaj Nagpur University. All research preferred laboratories are well equipped with desired equipments and software, new additions are done every year in line with research requirements. In addition to faculty members of the institution researchers from other organizations are carrying out research in this college. The details are given below:

Researchers from other institutions prefer the approved centres in this college. Facilities for research in each department are created through allocation of funds, participation in TEQIP I etc. The researchers are extensively using departmental facilities such as equipments and software, consumables required are provided to them. Details of present status of Ph.D. pursuing scholars in various departments is given below:

Department	Degree Awarded	Thesis Submitted	Total Strength as on Date	Total from the Group	Total Outside the Group
Civil Engineering	11	4	27	7	20
Mechanical Engg.	11	5	35	7	28
Electrical Engg.	4	1	18	5	13
Electronics	3	9	28	13	15
Electronics & Telecommunications	0	0	10	5	5
Computer Technology	0	1	9	2	7
Information Technology	0	0	8	1	7
Applied Mathematics	0	0	2	1	1
Applied Physics	0	0	6	1	5
Applied Chemistry	0	3	5	1	4
	29	23	148	43	105

Scholars are also attracted towards recently established SIEMENS Center of Excellence for Digital Manufacturing and Robotics setup by the department of Mechanical Engineering with financial assistance from AICTE and Siemens India.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the College through the following:

Paper Publication Details

Dept.	Year	No. of faculty presenting papers	National Conf.	International Conf	Details of important National and International Conferences
CE	2014-15	25	24	07	2 nd MGI International Conference on Recent Trends & Innovation in Engineering & Technology-2014, DMIETR, Sawngi Meghe, Wardha
	2013-14	28	23	23	International Conference on Technologies for Development", EPEL-UNEXCO Cooperation & Development Enter, EPEL Lausanne, Switzerland
	2012-13	20	20	-	National Conference on Repairs and Rehabilitation of Concrete Structures REHAB 2012, Nagpur
	2011-12		20	14	4 th International Congress of Environmental Research, (SVNIT), Surat, International Conference on Energy, Environment and Sustainable Development (ICEESD-2011), Shanghai University of Electric Power, Shanghai, China
ME	2014-15	15	05	33	ISRS- 2014, IIT Madras, NDE-2014 ISNT Pune Chapter
	2013-14	15	02	28	CORSYM-2014 IIT Bombay ICIE-2013 SVNIT Surat
	2012-13	21	13	14	IITM Research Park, IIT Madras BPSM-2012 Shiksha 'O' Anusandhan University, Bhubaneswar

	2011-12	13	-	19	ICSM-2011 BITS Pilani, Rajsthan ICIE-2011 SVNIT Surat
EL	2014-15	10	01	11	--
	2013-14	26	16	26	--
	2012-13	17	05	15	--
	2011-12	21	07	26	--
EE	2014-15	38	2	64	--
	2013-14	38	11	81	--
	2012-13	35	06	64	--
	2011-12	30	02	48	--
ETC	2014-15	32	06	28	IEEE, Springer, ACM Proceeding
	2013-14	24	03	28	
	2012-13	23	11	37	
	2011-12	14	1	20	
CT	2014-15	24	-	56	IEEE Conf.- 39 Springer Conf. - 4 Elsevier Conf. - 1
	2013-14	22	06	19	IEEE Conf.- 08
	2012-13	08	-	25	--
	2011-12	17	03	08	--
IT	2014-15	11		18	IEEE Sponsored Conference of "Futuristic Trends in Computational Analysis and Knowledge Management" Amity University, Greater Noida (ISBN: 978-1-4799-8432-9)
	2013-14	13	2	23	IEEE International Conference on Advance Research and Engineering Technology (ICARET)
	2012-13	10	11	5	IEEE International Conference on Advanced Research in Engineering and Technology-2013, K L University, Vaddeswaram, Guntur District,AP
	2011-12	17	5	6	3 rd International Conference on Information Technology and Business Intelligence,IMT Nagpur (Venue Hyderabad)

Average Publications per faculty (Conferences)

Year	Average Publications
2014-15	1.53
2013-14	1.69
2012-13	1.43
2011-12	1.35

Details of faculty serving on editorial boards of National/International Journals:

- a. Dr. Kavita R Singh: Associate Editor for International Journal of Research in Engineering and Science (IJREAS), ISSN (PRINT): 2249-9210, ISSN (Online): 2348-1862
- b. Dr. M.M. Raghuwanshi: Associate Editor for International Journal of Research in Engineering and Science (IJREAS), ISSN (PRINT): 2249-9210, ISSN (Online): 2348-1862
- c. Prof. Arvind Bhagat Patil : Associate Editor for International Journal of Research in Engineering and Science (IJREAS), ISSN (PRINT): 2249-9210, ISSN (Online): 2348-1862
- d. Dr. Kavita R Singh: Reviewer of IOS Press Journal of Intelligent and Fuzzy System, *ISSN* print: 1064-1246; *ISSN* online: 1875-8967
- e. Dr. M.M. Raghuwanshi: Reviewer for IEEE Congress on Evolutionary Computation, IEEE CEC (since 2007).
- f. Dr. A.M. Pande: Reviewer of American Concrete Institute, Journal of Indian Concrete Institute.
- g. Dr. P.K. Dakhole : Reviewer of IEEE, Journal of Circuits & Systems.

* Faculty members on the organisation committees of international conferences, recognized by reputed organizations / societies.

Civil Engg.

Academic Year	Name of Faculty Member	Details of Conference	Organized by	Committee
2013-14	Dr.S.D. Bhole	International Conference on Disaster Management	YCCE & NIU, USA SEGi, Malaysia	Organizing Secretary
2013-14	Dr.A.R. Gajbhiye	International Conference on Disaster Management	YCCE & NIU, USA, SEGi, Malaysia	Convener
2013-14	Dr.U.P. Waghe	International Conference on Disaster Management	YCCE & NIU, USA, SEGi, Malaysia	Principal Convener
2012-13	Dr. A.M. Pande	International Conference on Innovations in Concrete	Indian Concrete Institute	Organising Committee Member
2012-13	Dr. A.M. Pande	International Conference on Trends and Challenges in Concrete Structures	Indian Concrete Institute	National Organising Committee Member
2013-14	Dr. A.M. Pande	Natioanl Conference on Alternative Materials for Concrete – AMCON 2015	Indian Concrete Institute	Technical Committee Member
2011-12	Dr. A.M. Pande	One Day National Seminar on Fast Track Construction For Housing Sector In India	Indian Concrete Institute	Advisory Committee Member

Mechanical Engineering

Academic Year	Name of Faculty Member	Details of Conference	Organised by	Committee
2011-2012	Prof. D.Y. Shahare	International Conference on Computer Application	Yeshwantrao Chavan College of Engineering Nagpur	Co-ordinator from Mechanical Engg. Dept.

Electronics and Telecommunication Engineering:

Academic Year	Name(s) of Faculty Member	Details of Programme	Organized by
2013-14	Prof. Dhiraj K. Thote	Guest Lecture on Television Engg.	Electronics and Communication Engg. , SDMP, Nagpur
	Prof. D.B.Bhoyar	Judge For Paper Presentation	Tech Wave, Smt. Rajashree Mulak College of Engg. For Women
	Prof. Y.K.Dubey	Technical Committee Member	International Conference on Digital Image Processing, Athens Greece
	Prof. Y.K.Dubey	Technical Committee Member	International Conference on Computer Science Engineering and Application, Chennai
2012-13	Dr.P.L.Zade	Expert Faculty For Reviewing Final Year Project	Electronics and Communication Engg. , SDMP, Nagpur
	Prof. M.S.Narlawar	Expert Faculty For Reviewing Final Year Project	Electronics and Communication Engg. , SDMP,Nagpur
	Dr.P.L.Zade	Session Chair	International Conference on Advanced trends and Applications of Electronic Technology (ICATAET-13) at PCE
	Dr. M.M.Mushrif	Session Chair	International Conference on Recent trends in Electronics and Telecommunications (ICRTIET-13) at RGCOER
	Dr.P.L.Zade	Session Chair	Conference on Innovative trends for Technology Development Technocon-13 at DMIETER Wardha
	Dr.P.L.Zade	Expert Faculty For Reviewing Final Year Project	Electronics and Communication Engg. , SDMP, Nagpur

Computer Technology:

Academic Year	Name of Faculty	Details of Conference	Organised by	Committee
2013-2014	Dr. K R Singh	ICRTIET-13	RG CER	Session Chair
2013-2014	Dr. Mukesh Raghuvanshi	ICRTIET-13	RG CER	Convener
2013-2014	Prof. A. R. Bhagat Patil	ICRTIET-13	RG CER	Publicity Chair
2013-2014	Dr. Mukesh Raghuvanshi	International Conference on Electronic Systems, Signal Processing and Computing Technologies (ICESC)	SRCEM, Nagpur	Session Chair

2013-2014	Dr. Mukesh Raghuwanshi	International Conference on Emerging Trends in Engineering & Technology (ICETET-13)	GHRCE, Nagpur	Session Chair
2012-2013	Dr. Kavita R Singh	International Conference on Advanced Electrical, Electronics and Computer Science	Nagpur	Session Chair
2011-2012	Dr. Manali Kshirsagar	International Conference on Innovations & Trends In Applied Computing	YCCE	Convener
2011-2012	Prof. A. R. Bhagat Patil	International Conference on Innovations & Trends In Applied Computing	YCCE	Organizing Secretary
2011-2012	Dr. Ujjwala Gawande	International Conference on Innovations & Trends In Applied Computing	YCCE	Publicity Chair

Information Technology:

Academic Year	Name of Faculty Member	Details of Conference	Organized by	Committee
2013-2014	Dr. K.K.Bhoyar	ACM, Compute	VNIT & ACM India	Organizing Committee
2012-2013	Dr. K.K.Bhoyar	ICRTIET	RGCOE	Organizing Committee
2011-2012	Dr. K.K.Bhoyar	ITAC	YCCE	Organizing Committee

3.4.2 Does the College publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database?

YES.

College publishes a journal namely, "International Journal of Research in Engineering and Applied Sciences", ISSN (PRINT): 2249-9210, ISSN (Online): 2348-1862. This is an open access non paid peer-reviewed international forum for academicians and engineers involved in research to publish high quality and refereed papers. Journal has a globally renowned editorial board and peer review policy. Journal is mainly divided under various sections but topics are not limited to the following : Civil Engineering , Computer Science and Information Technology, Electrical Engineering , Electronics and Tele-communication Engineering, Mechanical Engineering and Applied Sciences.

Editorial Board is as follows: Editor in Chief Dr. Sumant G. Kadwane, Professor, Department of Electrical Engineering, he is assisted by a board of Associate Editors representing all departments. There is an Editorial Advisory Board consisting of Dr. Nemi Banthia, UBC, Canada, Dr. Yadgiri Poojari, Ohio State University, Columbus, US, Sanjay Moghe, R.F.I.C. Solution, Canada, Vishal Agrawal, M.C.S, USA, Yogita Poojari, N.W.I., Columbus, USA, Deepshikha Majumder, Yokogawa Australia, Dr. Milind Atrey, I.I.T., Powai, Dr. Abhishek Shrivastava, I. I. T., Indore, Dr. Subojit Ghosh, N.I.T. Raipur, Dr. N.D. Mittal, M.A.N.I.T., Bhopal, Dr. P.R. Thakura, B.I.T, Mesra, Dr. Shridhar Pattanaik, B.I.T., Mesra, Dr. D. M. Kulkarni, B.I.T.S. Pilani, Goa Campus, Dr. M.B. Kokare, S.G.G.S.I.E.T., Nanded, Dr. Uday V. Kulkarni, S.G.G.S.I.E.T., Nanded, Dr. U.P. Waghe, Y.C.C.E., Nagpur, Dr. S.P. Untwale, D.M.I.E.T.R., Wardha, Dr. V.H. Tatwawadi, D.B.A. C.E.R., Nagpur, Dr. A.V. Bapat, RGCER, Nagpur, Dr. A.M. Pande, YCCE

The Journal is indexed in Google Scholar and Scientific World Index.

3.4.3 Give details of publications by the faculty:

* Number of papers published in peer reviewed journals (national / international)

Dept.	Academic Year	No. of faculty presenting papers	National Journals	International Journals
Civil Engg.	2011-12	10	--	27
	2012-13	07	--	12
	2013-14	19	--	21
	2014-15	11	01	14
Mechanical Engineering	2011-12	07	--	11
	2012-13	07	01	07
	2013-14	18	01	30
	2014-15	16	01	34
Electrical Engg.	2011-12	06	02	04
	2012-13	08	01	08
	2013-14	14	02	19
	2014-15	12	01	14
Electronics and Telecommunication Engg.	2011-12	23	--	23
	2012-13	24	--	20
	2013-14	22	--	33
	2014-15	06	--	04
Computer Technology	2011-12	19	--	18
	2012-13	14	--	23
	2013-14	22	--	50
	2014-15	26	--	47
Information Technology	2011-12	06	--	06
	2012-13	01	--	01
	2013-14	--	--	--
	2014-15	10	--	19

- * Monographs – **NIL**
- * Chapters in Books

Applied Mathematics & Humanities:

Name of Author/s	Name of Chapter/s in Book	Publisher, DOI, ISBN, Year, Page Nos.
Prof. A.M.Kulkarni	Applied Mathematics II	ISBN 818917824-5
Dr. M.P.Gandhi	Applied Mathematics II	ISBN 818917824-5
Dr. S.C.Venkateswaralu	Discrete Mathematics & Graph Theory	ISBN 818917883-0
Mrs. Mamta S. Dani	Discrete Mathematics & Graph Theory	ISBN 818917883-0

* Editing Books : **Nil**

* Books with ISBN numbers with details of publisher

Civil Engineering:

Name of Book: Matrix Method of Structural Analysis

Authors : P.N.Godbole, R.S. Sonparate, S.U.Dhote

ISBN No. : ISBN 978-81-203-4984-1

Publisher : PSI learning private limited, New Delhi

Electronics Engineering:

Name of Book: An Intelligent WLAN System Performance Evaluation in
Multipath Fading Environment

Authors : S. Rathkantiwar, Kishor Kulat, Chandrashekhar Dethe

Publisher : Lambert Academic Publishing

ISBN No. : ISBN 978-3-659-15838-4

Applied Physics:

A Text Book of Engineering Physics in 2012-13

Authors: Dr S A Band and S A Fadnavis

A Book on Applied Sciences for B.Sc. (Industrial Sciences) course of
Yeshwantrao Chavan Maharashtra Open University in 2010-11

Author: Dr S V Soni

Applied Chemistry:

1. A Text Book on Engineering Chemistry, Das Ganu Publication, Year 2008

Author: Dr.A.B. Bhake

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Computer Technology: 24

- Dr. M.M. Raghuwanshi-17
- Dr. Mrs. Kavita Singh-05
- Prof. A.R. Patil Bhagat-01
- Dr. Mrs. M.M. Kshirsagar-01

Information Technology: 07

- 03 – Scopus (Dr. U.H. Gawande)
- 04 - EBSCO host (Dr. U.H. Gawande, Dr. K.K. Bhoyar)

*** Citation Index – range / average**

Citation to papers published by faculty members ranges from 1 to maximum 243. Average is around 15.

*** SNIP**

SNIP of selected few papers is found to vary from 1 to maximum 2.73.

*** SJR**

SJR of selected few papers is found to vary from 0.1 to maximum 0.3.

*** Impact factor – range / average**

Maximum Impact Factor of Journals/volumes in which faculty members have published papers is found to be 5.098, average is around 2.82.

*** h-index**

h-index of selected few papers is found to vary from 1 to maximum 8.

3.4.4 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty.

Except Mechanical Engineering other departments became approved centres of Higher Learning and Research after February 2009. Initially very few faculty members of the institution were available as supervisors. Around 150 scholars are pursuing research in the institution, eleven scholars could not complete the research. Details are given below:

Dept.	Name of Guide	Thesis Submitted	Ph.D. Awarded	Scholars	Total	Discontinued
ME	Dr. R.L. Shrivastava	4	7	12	23	2
ME	Dr. A.V. Kale	1	1	2	4	1
ME	Dr. S.S. Chaudhary	0	0	5	5	-
CE	Dr. A.R. Gajbhiye	1	0	3	4	-
CE	Dr. U.P. Waghe	0	2	2	4	1
CE	Dr. A.M.Pande	1	6	3	10	2
CE	Dr. S.R. Khandeshwar	0	0	7	7	-
EL	Dr. R.M. Mohril	0	1	5	6	1
EL	Dr. S.G. Kadwane	0	0	5	5	-
EE	Dr. P. T. Karule	2	1	4	7	-
EE	Dr. P.K. Dakhole	1	0	7	8	-
EE	Dr. S.V. Rathkantiwar	0	0	1	1	-
ET	Dr. P.L. Zade	0	0	8	8	-
ET	Dr. M.M. Mushrif	1	1	6	8	1
CT	Dr. M.M. Kshirsagar	1	0	7	8	-
IT	Dr.K.K.Bhojar	0	0	7	7	-
CHEM	Dr. P.T. Kosankar	3	0	3	6	2
CHEM	Dr. A.B. Bhake	0	0	5	5	2
PHY	Dr. Mrs. S.A. Band	0	0	1	1	-
MATH	Dr. Mrs. M.P. Gandhi	0	0	2	2	-

3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?

The college gives guidelines for conduct of research to all admitted scholars. The departmental research committee thoroughly investigates work carried out by researchers every six months. Researchers are warned about malpractices and especially plagiarism in paper publication. One such case of plagiarism was detected, a committee was constituted to investigate the matter and appropriate action was taken against the scholar.

3.4.6 Does the College promote interdisciplinary research? If yes, how many inter departmental / inter disciplinary research projects have been undertaken and mention the number of departments involved in such an endeavour.

The college promotes inter-disciplinary research. Mostly research is carried out through interdisciplinary UG/PG Projects, the details are also presented in section 3.1.5

Department of Computer Technology

Collaborating Department	Year	Title of Project	Name of Guide from Dept.	Name of Guide/Co-guide from other Dept.
CT & EE	2013-14	Gesture Controlled Robotic Arm	T.R.Ravi	S. R. Nitnaware
		Accident Rescue Operation via SMS	R.S.Khedgaonkar	Yashika Gaydhani
CT, EE & CE.	2012-13	Haptic Robotic Arm Using Voice & Gesture Recognition	Kruti Sharma	P.P. Zode
		Dimension And Deformation Measuring Instruments	R.L.Jain	Dr. A.M. Pande
		Analysis And Presentation Of Earthquake Data	Dr.M.M. Kshirsagar	Dr. A.M. Pande
CT & CE	2011-12	Design of Dimensions And Deformation Measuring Instruments For Terrestrial Structures	R.L.Jain	Dr. A.M. Pande

Department of Electronics

Collaborating Department	Year	Title of Project	Name of Guide from Dept.	Name of Guide/Co-guide from other Dept.
EE & CT	2011-12	Industrial Automation System	S.Y.Ambatkar	T.R. Ravi
EE & CT	2012-13	Industrial Automation cum Security System	A.D.Tijare	T.R. Ravi
EE & EL	2013-14	Pressure Based Energy Generation for Automatic Street Lights	A.A.Parkhi	A.P. Munshi
EE & IT	2013-14	Spy Chopper	Y.A. Suryawanshi	M. Deshkar
EE & CT	2013-14	Gesture Control Robotic Arm	S.R.Nitnaware	T.R. Ravi
EE & ET	2013-14	Automated License Plate Recognition	V.D.Alagdeve	A.S.Khobragade
EE & CT	2013-14	Developing Real Time Testing of Gesture Based Robot Control Using Flex Sensor and Accelerometer	S.M.Kakde	S. D. Kamble
EE & CT	2013-14	RFID Based Attendance Monitoring	A.R.Zade	Prof. T.R. Ravi
EE & EL	2013-14	Maximum Power Demand Controller	Y.A.Deodhe	R.M. Ghimonkar

EE & CT	2013-14	Accident Rescue Operation Via SMS	Y.A.Gaidhani	Roshni Khedgaonkar
EE & ME	2013-14	Automatic Vegetable Cutter	S.A.Dhondse	Mr.Bodkhe
EE & IT	2014-15	Automated Industrial Security System	Poonam Choudhary	G.K.Yenurkar
EE & CT	2014-15	Examination Methodology Using Embedded System	A.R.Zade	Gauri Choudhari

Department of Information Technology

Collaborative Department	Academic Year	Title of Project	Name of Guide from Dept.	Name of Guide/Co-guide from other Dept.
IT & EE	2014-2015	Live Human Detection In Earthquake	S.S.Chavan	Pandey
IT & ET	2014-2015	Industrial Security Monitoring System	G.K.Yenurkar	P.Chudhari

Department of Electronics & Telecommunication

Collaborative Department	Year	Title of Project	Name of Guide from Dept.	Guide/Co-guide from other Dept.
ETC & CT	2013-14	Wireless Fingerprint Based Attendance System Using Zigbee Tech.	C. S. Gode	S.D. Kamble
ETC & ME		Automatic Dual Axis solar tracking system	N. A. Pande	A.P. Edlabadkar
ETC & CT		Text detection in blur Image and Audiobook syncing	Y.K.Dubey	T.R.Ravi
ETC & VIT		Live human Detection ROBOT for Earthquake Rescue Operation	N.A.Pande	--
ETC & EE		FPGA Implementation of Image Compression and De-compression	A.A. Madankar	P.K.Dakhole
ETC & ME		An Autonomus Robot Based on GPS	M.S.Patil	YCCE, Nagpur

Department of Mechanical Engg.

Collaborating Department	Year	Title of Project	Name of Guide from Dept.	Name of Guide/ Co-guide from other Dept.
ME & CE	2011-2012	Study The Effect Of AL Variation In ZnCu Microstructure If Hot Dipped Galcanised Coating	B.D.Deshmukh	Dr.A.M.pande
ME & EE	2013-2014	Compilation Of PC Based Dishwasher Machine Controller Kit	A. P. Edlabadkar	P.M.Palsodkar
ME & EE	2013-2014	Compilation Of PC Base Washing Machine Controller	S.T.Bagde	M.S.Pawar
ME & ETC	2014-2015	Design & Fabrication Of Semi-Automatic Wall Painting Robot	S.S.Akant	D.B.Bhojar

In addition to the inter-disciplinary UG/PG Projects, research projects are also carried out.

Details of some important research projects are:

Dept.	Name of Guide	Topic	Name of Scholar
CE	Dr. U.P. Waghe	Development Of An Environmental Management System For An Indian Chemical Industry	A.P. Singh
	Dr. A.R. Gajbhiye	Development Of Artificial Neural Network (ANN) For Optimal Operation Of Reservoirs And Assessment Of Its Application Potential Over Conventional Method	Shrirang S. Khare
	Dr. P.T. Kosankar (Co-Guide)	Studies On Environmental Aspect, Performance Evaluation And Effectiveness Of Chlorinating Agents In Swimming Pools And Water Parks	Prashant S. Lanjewar

ME	Dr. R.L. Shrivastava	Identification And Evaluation Of Factors Towards Green Manufacturing Framework For Sustainable Development Of Cement Manufacturing Industry	Sanjeev Shrivastava
	Dr. R.L. Shrivastava	Operational Excellence In Indian Health Care Industry Through Six Sigma Methodology Implementation	Sunil Kumar Das
	Dr. R.L. Shrivastava	Implementation Of Six Sigma Process In Indian Life Insurance Sector For Service Quality Improvement	Mahesh Rajaram Shukla
EE	Dr. P.T. Karule	Development Of Computer Aided Diagnosis System Based On Analysis Of Fundus Images	Shilpa Joshi
	Dr. M.M. Mushrif	Feature Extraction For Detection Of Diseases In Rationopathy Images	N.M. Nimbarte
	Dr. M.M. Mushrif	Development Of Algorithms For Quantitative Analysis And Assesment Of Brain Images	Y.K. Dubey
	Dr. M.M. Mushrif	Computer Aided Image Analysis And Evaluationof Pathology Images	A. D. Belsare
	Dr. M.M. Mushrif	Image Analysis Using Compressing Lensing Technique	Sujata Kulkarni
	Dr.Mrs.R.D.Raut	Design & Development Of Intelligent Decision Support System For Thyroid Diseases	Wrushali Mendre
	Dr.Milind Mushrif	Development Of Robust Algorithm For Visual Object Tracking	Nandini Bhandari
IT	Dr.K.K.Bhoyar	Study and Anyalysis of E-Learning System and its Optimization using Data Mining Techniques	Vilas Mahatme

3.4.7 Mention the research awards instituted by the College.

Though specific research awards are not instituted by the institution, however researchers are felicitated for their specific research achievements such as Best Paper award, Charing Technical Sessions, Paper Publication in Reputed Journals etc.

3.4.8 Provide details of

- research awards received by the faculty

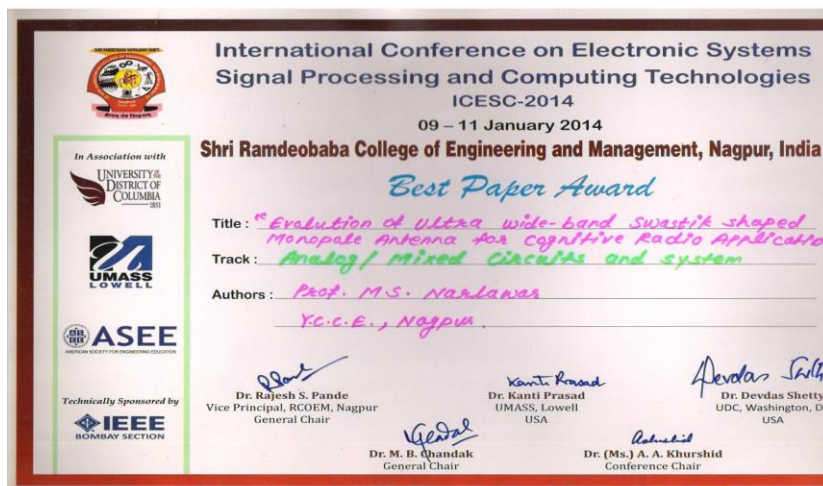
Computer Technology

Dr. Kavita R Singh,

IBM TGMC Mentor Award for support to IBM Academic Initiative

- recognition received by the faculty from reputed professional bodies and agencies

Faculty	Award	Dates	Event
Dr. P. L. Zade	Best Paper and Best Presentation Award	2-3/12/2011	International Conference on Computer and Computational Intelligence, ICCI-2011, at Bangkok, Thailand
Prof. M.S. Narlawar	Best Paper Award	09/11/2014	International Conf.on Electronic Systems,Signal Processing and Computing Technologies [ICESC]-2014
Dhiraj Thote	Best Paper	27/01/2014	National Conference on Advanced Communication & Matlab
Dr. S.V. Soni	Best Paper Award	13-15/04/2012	International Conference on Chemical Engineering and Pharmaceutical Sciences (ICCEPS 12)' held at Pattaya, Thailand
Shraddha Sagnevar	Best Paper Award	20/01/2013	Emerging Intelligent Sustainable Technologies (Eistcon-2013)
Dr. S.V. Soni	Dr. C. V. Raman National Award For Excellence and Contribution to Research	3/03/2013	5 th Mahatma Fule Social Research International Interdisciplinary Conference organized by Smt. Radhikabai Pandav College of Engineering, Nagpur
Dr. S.V. Soni	Best Paper Award	21-22/11/2013	International Conference on Advances in Physics and Engineering Mathematics held at Shanghai, China



Certificate of Best Paper Award in International Conference

3.4.9 State the incentives given to faculty for receiving state, national and international recognitions for research contributions.

Computer Technology

3% of 7 lakhs incentive given to Dr. Kavita R Singh who was principal Investigator of AICTE RPS-A “ A Robust Face Recognition System under Illumination and Pose Variations”.

Electrical Engineering

Year	Name of Faculty	Amount	Particulars
2013-14	Dr. S. G. Kadwane	50000/-	Chief Editor MGI International Journal
	Dr. S. G. Kadwane	24000/-	AICTE-RPS (Principal Investigator)
	S.L.Tiwari	16000/-	AICTE-RPS (Investigator)
2011-12	Dr. R. M. Moharil	16000/-	AICTE MODROB Advance Electrical Drives
	Dr. R. M. Moharil	5000/-	Paper Published in International Journal

3.5 Consultancy

3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

All departments have identified their expertise areas, personal contacts and requirements through III cell result in consultancy services offered to departments. Details of consultancies offered are given below:

Department of Civil Engineering:-

Details about Consultancy	Industry Organisation	Amount	Period of Consultancy
Consultancy of Providing Technical Report For Rain Water Harvesting Pond in Mihanpower Plant (M/S. AMNEPL)	M/s. Abhijeet MADC Nagpur Energy Ltd.	20,000/-	2012-2013
Consultancy of Providing Feasibility Report Regarding Hydraulic Design, Environmental Design & Structural Design Water Supply Units For Tirodi Mines, Dist. Balaghat, M.P.	MOIL-Limited (A Government of India Enterprise)	1,76,782/-	2013-2014
Pandrakwada Reform Project	ADCC Infocad Ltd.	1,25,000/-	2013-2014 2014-2015
Bhadravati Reform Project	ADCC Infocad Ltd.	1,12,000/-	2014-2015
Wardha Reform Project	ADCC Infocad Ltd.	1,25,000/-	2014-2015
Mul Reform Project	ADCC Infocad Ltd.	1,15,000/-	2014-2015
Third Party Technical Audit of construction work of Municipal Council, Katol, Dist. Nagpur	Municipal Council, Katol, Dist. Nagpur	Till date consultancy of 50,000/- is completed. Work is in progress	2014-2015
Third Party Technical Audit of construction work of Municipal Council, Umred, Dist.-Nagpur	Municipal Council, Umred, Dist. Nagpur	Till date consultancy of 50,000/- is completed. Work is in progress	2014-2015

Department of Mechanical Engineering:-

Details about Consultancy	Industry Organisation	Amount	Period of Consultancy
Consultancy in Mechanical Engineering for Design, Development and Delivery of the Course Contents and Material	ADCC Infocad Pvt. Ltd. Nagpur	2,00,000.00	2012-13
Consultancy in Mechanical Engineering for Greeves Cotton Project	Greeves Cotton Project	2,25,000.00	2013-14

Department of Electronics Engineering:-

Details about Consultancy	Industry Organisation	Amount	Period of Consultancy
Line Bottling of a Bottling Plant Using PLC and SCADA	SAP Control Systems & Engg. Pvt. Ltd.	1,20,000/-	August 2010 — March 2013
Design And Development of Data Acquisition System for Monitoring 11KV Substation	Unique Automation	1,20,000/-	Sept 2010- Sept 2012)
Microcontroller Based Temperature Data Logger	Unique Automation	1,10,000/-	Jan 2012- Feb 2014
Industrial Pollution Data Display	Unique Automation	1,10,000/-	Sept 2014 onwards
Industrial Automation and Maintenance of Electronic Instruments	Sharda Poly Colors Pvt. Ltd.	1,00,000/-	Sept 2014 onwards
Automatic Door Control System for Dams	SAP Control Systems & Engg. Pvt. Ltd.	1,28,000/-	July 2014 onward
LED Light Driver for 48V DC	Unique Automation	1,00,000/-	August 2014 onwards

Department of Electrical Engineering:-

Details about Consultancy	Industry Organisation	Amount	Period of Consultancy
Electrical Safety & Energy Audit	Tirupati Urban Co-operative Bank	12,500/-	July 2012-Oct. 2012
Electrical Safety & Energy Audit			
Practical of High Voltage Engg.	GW CoE, Nagpur	20,000/-	July 2013-Nov. 2013
Practical of High Voltage Engg. (26th & 28th Sept. 2013)	Nagarjuna CoE, Nagpur	25,000/-	July 2013-Nov. 2013
Practical of High Voltage Engg.	GW CoE	25,000/-	July 2014- Nov. 2014
Electrical Safety & Energy Audit	School of Scholars, TUCB, ADCC	56,588/-	2013-14

Department of Computer Technology:-

Details about Consultancy	Industry Organisation	Amount	Period of Consultancy
Development of e-Learning Portal	ADCC Infocad Ltd. & CT Department YCCE	Rs. 1.10 Lac.	Oct 2014- May 2015

Department of Information Technology:-

Details about Consultancy	Industry Organisation	Amount	Period of Consultancy
Software Development Service	ADCC Infocad Ltd.	1,10,000/-	2013
Technical Consultant	Chandrapur District Co-operative Bank Ltd.	15,000/-	2012

3.5.2 Does the College have College-industry cell? If yes, what is its scope and range of activities?

The college has IIP Cell, the cell has received a grant of Rs. 12.40 lakh for strengthening Institute-Industry Partnership Activities.

Some of the activities are presented below:

National level Innovative Project Exhibition				
Activity	Resource Person	Topic	Date	Beneficiary
National level Innovative Project Exhibition	Dr. A.P.J. Abdul Kalam, Ex-President, Republic of India as a Chief Guest Shri D.P. Sharma, CEO, NECO Group Dr. Vilas Sapkal, Vice Chancellor, RTM Nagpur University, Nagpur	Strategic Planning for Self Reliant Village, Renewable Sources of Energy, Primary Health Facilities for Indian Village in 2030 Interactive Session Of Students with Dr. A.P.J. Abdul Kalam, Ex-President	19-20/12/2013	Total 35 Innovative Projects were exhibited and about 8500 Visitors Visited the Exhibition
Expert Lectures				
Activity	Resource Person	Topic	Date	Beneficiary
Guest Lecture by department of Information Technology	Mr. Ashwin Balani, CEO, First Impression Technology	Weka Tools, installation, Clustering, Processing, Data Mining Algorithm.	10.02.2014	60 Students of VIII Sem.& M.Tech. II Sem.
Guest Lecture by department of Information Technology	Mrs. Sushama Mahapatra, Corporate Trainer	Personality development	10.03.2014	50 Students 6th Sem. & M. Tech. II Sem.

Guest Lecture by department of Information Technology	Mrs. Sushama Mahapatra, Corporate Trainer	Personality development	11.03.2014	50 Students 6th Sem. & M. Tech. II Sem.
Guest Lecture by department of Computer Technology	Ms. Mansi Radke, Prof. Computer Science & Engg. VNIT, Nagpur.	Advance concepts in object oriented programming	29.03.2014	150 Students of IV Sem.
Personality Development Programme / Workshop / Seminars				
Activity	Resource Person	Topic	Date	Beneficiary
One day workshop on Advances in Concrete Technology, organised by Department of Civil Engineering	Er. L.K. Jain, Er. Deven Matte, Er. M.Waghmare, Er. M. Umathe, Er. K.C. Tayade, Er. V.M. Galande Er. D.P. Mase	Fibre Reinforced Concrete. Demolition buildings & Concrete Structures. Ready Mix Concrete. Advances in Cement Technology. Self Compacting Concrete. Concrete Mechanics. Health Monitoring of Concrete Structures	26/04/2013	80 Students 38 Faculty Members
Interactive One day Workshop on GD & PI, Organised by Department of Civil Engineering	Dr. Suresh Chari, Soft Skill & Personality Development Trainer	Group Discussion & Personal Interview	22/03/2014	60 UG Students of III & IV Year

Industrial Tours & Visits			
Industry Visit	Industry	Date	Student Participation
By Department of Electrical Engg.	HVDC Back to Back Station, Chandrapur	21.09.2013	UG Students = 47 Nos. 4 Faculty Members
By department of Electrical Engg.	Suzlon Wind Power Plant, Motha, Chikaldhara, Distt. Amravati	21/22.12.2013	PG Students = 34 Nos. 3 Faculty Members
By Department of Civil Engg.	Gosikhurd Dam, Pawani, Bhandara	15.02.2014	IV Sem. = 145 Students & 11 Faculty Members
By Department of Electrical Engg.	M.S.E.T.C.L., Butibori, Sub-station, Nagpur	08.03.2014	UG Students = 90 Nos. 4 Faculty Members
By Department of Electronics Engg.	Pench Hydel Power Station, Totladoh	28.03.2014	VIII Sem. UG = 28 Students

National level Innovative Project Exhibition				
Activity	Resource Person	Topic	Date	Beneficiary
Pratikruti-2015 National Level UG Project Exhibiton Competition, Mechanical Department	Dr. U.P. Waghe, Dr. S. Chaudhary, Chief Guest Er. Atul Pande, President Vidharbh Industrial Association	Working Model- Prototype Presentaion Poster Presentation	25/03/ 2015	Total 160 Projects out of 234 were selecteed and Prize mony of Rs. 150000/- was awarded
Expert Lectures				
Activity	Resource Person	Topic	Date	Beneficiary
Guest Lecture by department of Electronics, Department	Flg Offi. Shiwalee Deshpande	Carrer in Indian Armed Forces	19/07 /2014	
Guest Lecture by department of Electrical Department	Mr. Sanjeev Nagpurkar, Exectutive Engineers, CTPS, Chandrapur,	Thermal Power Plant	15/09/ 2014	134 Students of V sem. B.E. Electical Department
Guest Lecture by department of Computer Tech.	Mrs. Sulabha Patil	Computer Networks	27/09/ 2015	120 Students of V sem. B.E. CT, Department
Guest Lecture by department of ETC Department,	Ms. Minakshi Chippa	Basic of Robotics, Electus Robtics	16/10/ 2014	120 students of IV sem. B.E. ETC, Dept.
Personality Development Programme / Workshop / Seminars				
Activity	Resource Person	Topic	Date	Beneficiary
Guest Lecture ETC, Department	Mrs. Veena Marthew, Director Mather's Academy	Personality Development & Communication Skills	22/08/ 2014	130 Students 25 Faculty Members
Guest Lecture on Electrical Dept.	Prof. Sumant Tekade	Shivaji : The Mangement Guru	18/03/ 2015	150 Students 25 Faculty
Industrial Tours & Visits				
Industry Visit	Industry	Date	Student Participation	
YCCE, Nagpur	One Day Visit to Bhabha Atomic Research Centre (BARC), Student from VII Sem. Electronic, Department	01-4/04/2014	UG Students = 120 Faculty Members = 8	
YCCE, Nagpur	One Day Visit to Bhabha Ttomic Research Centre (BARC), Student from VII Sem. Electronic, Department	10/03/2015	UG Students = 98 Faculty Members = 8	

3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

Personal contacts and activeness of faculty members in various organizations such as Institution of Engineers (I) gives wide publicity to the expertise. Civil Engineering, Electronics, Electronics & Telecommunication, Information Technology, Computer Technology, Electrical Engineering and Mechanical Engineering departments are offering consultancies. The list of agencies and departments to whom consultancies were given include,

M/s. Abhijeet MADC Nagpur Energy Pvt. Ltd.
MOIL-LIMITED (A Government of India Enterprise)
ADCC infocad Ltd. Nagpur
Municipal Council, Katol, Dist – Nagpur
Municipal Council, Umred, Dist – Nagpur
Greeves Cotton Project Nagpur
SAP Control Systems & Engg. Pvt. Ltd. Nagpur
Unique Automation Nagpur
Sharda Poly Colors Pvt. Ltd.
Tirupati Urban Co-operative Bank Ltd. Nagpur
Nagarjuna CoE, Nagpur
School of Scholars in Vidarbha
Chandrapur District Co-op bank LTD

3.5.4 How does the College encourage the faculty to utilise the expertise for consultancy services?

All faculty members are required to fill annual workload plan, desirous faculty members explore possibilities of consultancy and work extensively to fulfill the targets.

3.5.5 List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.

Department of Civil Engineering:

Details about Consultancy	Industry Organisation	Amount	Period of Consultancy
Consultancy of Providing Technical Report for Rain Water Harvesting Pond in Mihan Power Plant (M/s. AMNEPL)	M/s. Abhijeet MADC Nagpur Energy Pvt. Ltd.	20,000/-	2012-2013
Consultancy of Providing Feasibility Report Regarding	MOIL Limited	1,76,782/-	2013-2014

Hydraulic Design, Environmental Design and Structural Design Water Supply Units For Tirodi Mines, Dist. Balaghat, M.P.			
Pandrakwada Reform Project	ADCC Infocad Ltd.	1,25,000/-	2013-2014 2014-2015
Bhadravati Reform Project	ADCC Infocad Pvt.	1,12,000/-	2014-2015
Wardha Reform Project	ADCC Infocad Pvt.	1,25,000/-	2014-2015
Mul Reform Project	ADCC Infocad Pvt.	1,15,000/-	2014-2015
Third Party Technical Audit of construction work of Municipal Council, Katol, Dist. Nagpur.	Municipal Council, Katol, Dist. Nagpur	Till date consultancy of 50,000/- is completed. Work is in progress	2014-2015
Third Party Technical Audit of construction work of Municipal Council, Umred, Dist. Nagpur.	Municipal Council, Umred, Dist. Nagpur	Till date consultancy of 50,000/- is completed. Work is in progress	2014-2015

Department of Mechanical Engineering:

Details about Consultancy	Industry Organisation	Amount	Period of Consultancy
Consultancy In Mechanical Engineering For Design, Development and Delivery of the Course Contents and Material	ADCC Infocad Pvt. Ltd. Nagpur	2,00,000	2012-13
Consultancy in Mechanical Engineering for Greeves Cotton Project	Greeves Cotton Project	2,25,000	2013-14

Department of Electronics Engineering:

Details about Consultancy	Industry/ Organisation	Amount	Period of Consultancy
Line Bottling of a Bottling Plant Using PLC & SCADA	SAP Control Systems & Engg. Pvt. Ltd.	1,20,000/-	August 2010— March 2013
Design and Development of Data Acquisition System for Monitoring 11KV Substation	Unique Automation	1,20,000/-	Sept 2010-Sept 2012

Microcontroller based Temperature Data Logger	Unique Automation	1,10,000/-	Jan 2012-Feb2014
Industrial Pollution Data Display	Unique Automation	1,10,000/-	Sept2014 onwards
Industrial Automation and Maintenance of Electronic Instruments	Sharda Poly Colors Pvt.Ltd.	1,00,000/-	Sept2014 onwards
Automatic Door Control System for Dams	SAP Control Systems & Engg. Pvt. Ltd.	1,28,000/-	July2014 onwards
LED Light Driver for 48V DC	Unique Automation	1,00,000/-	August2014 onwards

Department of Electrical Engineering :-

Details about Consultancy	Industry Organisation	Amount	Period of Consultancy
Electrical Safety & Energy Audit	Tirupati Urban Co-operative Bank	12,500/-	July 2012-Oct. 2012
Practical of High Voltage Engg.	GW College of Engg. Nagpur	20,000/-	July 2013-Nov. 2013
Practical of High Voltage Engg. (26th & 28th Sept. 2013)	Nagarjuna CoE, Nagpur	25,000/-	July 2013-Nov. 2013
Practical of High Voltage Engg.	GW College of Engg. Nagpur	25,000/-	July 2014- Nov. 2014
Electrical Safety & Energy Audit	School of Scholars, ADCC Infocad Ltd.Tirupati Bank	56,588/-	2013-14

Department of Computer Technology:-

Details about Consultancy	Industry/ Organisation	Amount	Period of Consultancy
Development of e-Learning Portal	ADCC Infocad Ltd. CT Department YCCE	Rs. 1.10 Lac.	Oct 2014- May 2015

Department of Information Technology:-

Details about Consultancy	Industry/ Organisation	Amount	Period of Consultancy
Software Development Service	ADCC Infocad Ltd.	1,10,000/-	2013
Technical Consultant	Chandrapur District Co-op Bank Ltd.	15,000/-	2012

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience.

The institution organizes many social activities like blood donation camps, antismoking campaigns, I vote for better India campaign, Swachhata abhiyan on campus, Nirmalya (Flower and other Waste from Worship of God) Sankalan on the occasion of Ganapati Visarjan at prominent places in the city, traffic rules awareness programmes for the students in collaboration with RTO, Nagpur and Jan Aakrosh - an NGO and many more. WINGS - a society of students of the institution is formed in 2013 which has given recognition to the initiatives and involvement of students and faculty members in all the above activities organised at college level on social responsibilities. SWAS – a society of students formed in 2014 to help needy farmers in drought hit Marathwada region and promotion of reading habits amongst young students.

3.6.2 How does the College promote College-neighborhood network and student engagement, contributing to holistic development of students and sustained community development?



Many activities like Nirmalya Sankalan, Clothes and other material collection for under privileged people, clothes collection for flood affected people of Kashmir etc. were organised in collaboration with the students organisations of other colleges like VNIT, St. Vincent Pallottii College of Engineering and Technology, in the vicinity.

3.6.3 How does the College promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

Institution does not have an NCC unit. However many students of the institution do participate in NCC and NSS activities in other institutions. They also attend the camps and other social activities organised by their respective NCC/NSS units.

Under NSS, our students have so far conducted many activities like Swachhata Abhiyaan in the slum areas, cleaning of lakes and rivers, Nirmalya Sankalan etc.



3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable sections of society?

To empower the under privileged children in the slum areas, we have undertaken an activity to teach these children daily for one and half month. In this activity, two groups of 25 children each were taught by the students of the institution daily for two hours in the evening.

- **Survey at Mankapur Slum:**

In a survey of the slum area, Raj Nagar, Mankapur, Nagpur, it is found that underprivileged children were very weak in reading and writing. Group of students of the college conducted a free coaching classes at Hanuman Mandir ground, Mankapur for 20-25 children.



- **Visit to Sanjeevani Wrudhashram:**

SANJIVANI an old age home is visited once in every six months by WINGS to spend a day with the residents of the old age home. They enjoy with the students and students make them come out of the sense of loneliness at least for a day. There are around 20-25 senior citizen including working

staff for whom our members prepare lunch and happily enjoy with the residents of the old age home.



3.6.5 Give details of awards / recognition received by the College for extension activities / community development work.

Free computer education activity called "Computer on Wheels" run by the institution for the underprivileged children in the slum areas is getting an overwhelming response by the children in the nearby areas. The activity is very well appreciated and accepted by the people in the vicinity. This activity is basically planned and executed for the poor and needy people in the slum areas where it is being recognised, accepted and appreciated.



Computer on Wheels

3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement students' academic learning experience and specify the values and skills inculcated?

Behind all the community services offered by the college through the students and faculty members, the main objective of the institution is to inculcate the sense of social responsibility and a feeling of a good human being and responsible citizenship of the country in the students.

The interaction of the students with the people in the various social activities not only help them to boost up their confidence but also enhance their communication skills. This helps the students in the campus interviews for selection in good companies.

Also the sense of social responsibility help the students to cultivate good ethical values in them and they flourish with a good moral character and a developed personality.

So to complement the students' academic learning experience, all the values and skills like sense of social responsibility, feeling of a responsible citizenship, good communication skills, boosting of confidence level, development of good moral character etc. help the students to develop as a good and well developed technically fit human being.

3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College which have encouraged community participation in its activities.

Personnel from Jan Aakrosh - An NGO formed by retired people in Nagpur visits the institution every year to deliver a PowerPoint presentation for the students of the college to make them aware of the traffic rules and their importance. These people also conduct an activity with the help of the students in various squares of the city making people aware of these traffic rules.

Nagpur Municipal Corporation's Health department is involved with the students in the activity of Nirmalya collection and Visarjan on the occasion of Ganapati Visarjan at prominent places in the city where the students of the college help the NMC people and traffic control department to make the general public aware of hazards of Nirmalya Visarjan and also regularise the traffic.

3.6.8 Does the College have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?

Yes. Under the title of Extra / co - curricular activities, a credit course is introduced in the Eighth semester of every branch. So to earn these credits, every student has to submit the certificates / reports of all the social activities and other extra and co - curricular activities in which the student has participated during his / her tenure of under graduation. These certificates and reports are then evaluated and consolidated by the respective faculty members so that a consolidated report of each department is ready with the departments.

The students also have to take a prior written permission from the authorities of the college to participate in such many social activities during week days, a copy of this permission letter is submitted by the student to either Dean (Academic Matters) or Incharge, Students' Activities.

3.6.9 Give details on the constructive relationships (if any) with other institutions in the nearby locality in working on various outreach and extension activities.

- **CLEANLINESS DRIVE at Municipal school**

Inspired by the SWACH BHARAT MISSION a group of students cleaned Municipal school.

- **FOOD SERVING at Shashkiya Apang Balvikas Gruha, Pratap Nagar**

25th December, 2014 on the eve of Christmas day students 'Shashkiya Apang Balvikas Gruha'. Students distributed sweets and snacks for the children and spent a hearty time singing and dancing.

- **Independence Day Celebration at Apang Balvikas Gruha:**

The event was organized by WINGS at Sashikya Apang Balvikash Gruha, Pratap Nagar, Nagpur. The main motto was to encourage the children for education. The books were donated to the students. Programs on 15th august were organized like singing, dancing, painting, speech, quiz, etc



Painting Competition at Sashikya Apang Balvikash Gruha



Books Donation

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

Nil

3.7 Collaboration

3.7.1 How has the College's collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the College benefitted academically and financially because of collaborations?

Details of MoUs is presented below:

SN	Name of Industry/Company	Particulars
1	Tata Consultancy Services Ltd. Mumbai	Best Student Award, Best Project Award, Faculty Development Prg. , Workshop for students, Internship, Recruitment
2	Infosys – Campus Connect	Student/Education, Faculty Enablement Programme, Infosys Courseware, Special Lectures for students, Train the Trainer etc.
3.	Shanghvi& Associates, Mumbai	Faculty Dev. Prg., Student Dev. Prg., Design & Research work etc.
4.	Persistent Systems Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
5.	Victrans Engineers, Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
6.	InfoCepts Technologies Pvt. Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
7.	iLabs Research Pvt. Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
8.	Powerdeal Energy System (I) Pvt. Ltd., Nashik	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
9.	Cipher Technologies, Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
10.	Smart Cloud Infotech Pvt. Ltd., Pune	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
11.	SAP Control Systems & Engineers Pvt. Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
12.	Ramkrishna IT Systems, Pune	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment

13.	Central Institute for Research on Cotton Technology, Nagpur	Joint Consultancy projects, Research, STTP, Seminars, Workshops, Conference, Training in relation to ginning
14.	Vidharbha Industries Association, Nagpur	Sharing Resources, Joint Projects, Community Development, Collaborative Consultancy
15.	ADCC Infocad Pvt. Ltd., Nagpur	Community Development, Quality of Education, Training to Students, Live Projects, Internship
16.	NECO Group of Companies, Nagpur	Student Training & Internship, Joint Projects, Exchange of Faculty, Consultancy, Testing & Research
17.	Asian Streck Metals, Nagpur	Student Training & Internship, Joint Projects, Exchange of Faculty, Consultancy, Testing & Research
18.	Shreyas Quality Management Systems, Nagpur	Training, Research & Development, Resources for mutual academic & professional benefits, Project Work,
19.	GlobalLogic India Pvt. Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
20.	Sunil HiTech Engineers Ltd., Nagpur	Guest Lectures for students, Visit for Faculty & Students, Live Projects, Internship, Campus Recruitment
21.	Vidarbha Industries Power Ltd., (Reliance Power), Nagpur	Works for students, Faculty Development / Management Development Programmes, Best Student Award, Best Student Project Awards, Intership etc.
22.	HERE Nokia	Using Nokia Community Map Editor Tool

3.7.2 Mention specific examples of, how these linkages promote

- **Curriculum Development**

Curriculum development is essentially subject matter of respective departments. However directions are given from top while organizing curriculum development workshops. Two cycles of these are conducted in past, first at the beginning of autonomous working and second after four years of autonomous working. Potential persons are invited for their suggestions in curriculum developments and subsequent modifications. In addition to MoUs listed in previous section experts from IITs, BARC, other reputed institutions are invited to guide respective departments for curriculum development. Faculty members from VNIT Nagpur are serving on various Board of Studies, acting as mentors have significantly contributed in curriculum development.

As a major contribution two electives are offered by industries in Computer Technology Department, the contribution include syllabus framing, training the teachers, conducting practical sessions and actual engagement of lectures. The electives are-

1. Business Intelligence and its application by INFOSIS, Pune
2. Mobile Operating Systems by GlobalLogic India Pvt. Ltd., Nagpur

- **Internship, On-the-job Training**

The MoUs Have benefited from internships and training, the details of the companies are given below:

Tata Consultancy Services Ltd. Mumbai, Persistent Systems Ltd., Nagpur, Victrans Engineers, Nagpur, InfoCepts Technologies Pvt. Ltd., Nagpur, iLabs Research Pvt. Ltd., Nagpur, Powerdeal Energy System (I) Pvt. Ltd., Nashik, Cipher Technologies, Nagpur, Smart Cloud Infotech Pvt. Ltd., Pune, SAP Control Systems & Engineers Pvt. Ltd., Nagpur, Ramkrishna IT Systems, Pune, ADCC Infocad Pvt. Ltd., Nagpur, GlobalLogic India Pvt. Ltd., Nagpur, Sunil HiTech Engineers Ltd., Nagpur, Vidarbha Industries Power Ltd., (Reliance Power), Nagpur

Infosys – Campus Connect programme is designed to train the trainers

- **Faculty Exchange and Development**

Faculty members have been greatly benefited by the faculty Development initiatives and faculty visits to following organizations, Tata Consultancy Services Ltd. Mumbai, Infosys – Campus Connect, Shanghvi& Associates, Mumbai, InfoCepts Technologies Pvt. Ltd., Nagpur, iLabs Research Pvt. Ltd., Nagpur, Powerdeal Energy System (I) Pvt. Ltd., Nashik, Cipher Technologies, Nagpur, Smart Cloud Infotech Pvt. Ltd., Pune, SAP Control Systems & Engineers Pvt. Ltd., Nagpur, Ramkrishna IT Systems, Pune, ADCC Infocad Pvt. Ltd., Nagpur, NECO Group of Companies, Nagpur, Asian Streck Metals, Nagpur, GlobalLogic India Pvt. Ltd., Nagpur, Sunil HiTech Engineers Ltd., Nagpur, Vidarbha Industries Power Ltd., (Reliance Power), Nagpur

- **Research, Publication**

Though there is no significant direct relevance of MoUs in Research and publication, the interaction with experts has prompted enhancement of research culture in the Institution. Increase in number of faculty publication is also due to positive impact of the MoUs.

Live projects with following organizations have created positive impact towards research initiative.

Shanghvi& Associates, Mumbai, Persistent Systems Ltd., Nagpur, Victrans Engineers, Nagpur, InfoCepts Technologies Pvt. Ltd., Nagpur, iLabs Research Pvt. Ltd., Nagpur, Powerdeal Energy System (I) Pvt. Ltd., Nashik, Cipher Technologies, Nagpur, Smart Cloud Infotech Pvt. Ltd., Pune, SAP Control Systems & Engineers Pvt. Ltd., Nagpur, Ramkrishna IT Systems, Pune, ADCC Infocad Pvt. Ltd., Nagpur, NECO Group of Companies, Nagpur, Asian Streck Metals, Nagpur, GlobalLogic India Pvt. Ltd., Nagpur, Sunil HiTech Engineers Ltd., Nagpur

- **Consultancy, Extension**

MoU with ADCC Infocad Ltd. Resulted in many consultancy projects undertaken by the Institute. Details are given below:

Dept	Details about Consultancy	Industry Organisation	Period of Consultancy
CE	Pandrakwada Reform Project	ADCC Infocad Pvt. Ltd.	2013- 2015
	Bhadravati Reform Project	ADCC Infocad Pvt. Ltd.	2014-2015
	Wardha Reform Project	ADCC Infocad Pvt. Ltd.	2014-2015
	Mul Reform Project	ADCC Infocad Pvt. Ltd.	2014-2015
ME	Consultancy in Mechanical Engineering For Design, Development & Delivery of the Course Contents And Material	ADCC Infocad Pvt. Ltd. Nagpur	2012-2013
CT	Development Of E-Learning Portal	ADCC Infocad Pvt. Ltd.	2014- 2015
IT	Software Development Service	ADCC Infocad Pvt. Ltd.	2013-2014

- **Student Placement**

TCS has played a major role in campus placements, others like Persistent, InfoCepts have also selected large number of students. All the organizations have given valid inputs for preparing the students to face interviews and their selection. ADCC Infocad has significantly contributed in organizing Campus Recruitment Training, a structured programme for third year students.

- **Any other, please specify**

Many of the organizations help in delivering guest lectures and associating in offering live industrial projects at UG/PG levels.

3.7.3 Does the College have MoUs nationally / internationally and with institutions of national importance/other universities/ industries/corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching-learning, research and development activities of the College?

In addition to MoUs with organizations detailed in section 3.7.1, the college has signed MoUs with following universities / Institutions.

The college has MoU with, SEGi University Malaysia, Purdue University, Northern Illinois University, USA, Michigan State University USA, University of Massachusetts of Lowell USA, Lawrence University, USA, Arizona State University, University of Hartford USA. SVNIT Surat.

Important benefits from the MoUs are listed below:

- Faculty tour and training in Arizona State University (ASU) June 2007.
- Conferences organized jointly:
 - Computer Technology Department-International Conference on Innovations & Trends In Applied Computing, organized in collaboration with Harvard University, USA, 1-3 Feb 2012, Harvard University
 - Civil Engineering Department - International Conference on “Disaster Management”, 13th March and 14th March 2014, SEGi University Malasia
- Ph.D. Degree from SVNIT Surat
 - Dr. Ms. Ujjwala Gawande, Head Department of Information Technology
 - Dr. Mrs. Kavita Singh, Head Department of Computer Technology

3.7.4 Have the College industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

The college has established ‘SIEMENS Center of Excellence for Digital Manufacturing and Robotics’ with grants from AICTE and Siemens India.

S.N.	Details of Procured Equipment / Software	Specifications	No.	Amount (In Rs. Lakh)
1	Siemens software	NX CAM Express, Academic Perpetual License	02	7.16
		Technomax Manufacturing Academic Perpetual License	02	
		Technomatix ROBOCAD Academic Perpetual License	02	
2	CNC Milling Machine	Flexmill CNC Machine, with Siemens 828DSL, Industrial Controller with Tooling Package and Automatic Tooling Changer	01	27.38
3	CNC turning Machine	CNC Turning Machine, with Siemens 828 DSL, Industrial Controller with Tooling Package	01	
4	Dell Workstations	Optiplex, 3020 MT, Core 3/4 GB /500 GB/ 1 GB Graphics		1.66



FLEXMILL



FLEXTURN

The Centre of Excellence conducts programmes for the benefit of all, details are given below:

Trainings conducted at Siemens Centre of Excellence (2014-15)

S. N.	Training	Date	Participants	No. of Participants	Details of the Programme
1	Two days work shop on Digital Manufacturing using NX CAM Basics	09/03/2015-10/03/2015	Final Year Students	17	Assist In Enhancing The Level Of The Placement Of The Trained Manpower
2	Two days work shop on Digital Manufacturing using NX CAM Basics	09/01/2015-10/01/2015	Polytechnic Students	14	Provide Opportunity to the Workforce to Enhance Its Skill Sets Through Design of Specific Courses
3	One Day Workshop Machine Learning and Mathematical Modeling	26/09/2014	Final Year Students	20	Create a Pool of Highly Skilled Resources which can be utilized by the Industry in India as well as Abroad

4	One day workshop Machine learning and mathematical modeling	30/08/2014	PG Students	15	Students can Compete in National Employment Market for Better Remuneration and Growth
5	One Week ISTE approved STTP on Digital Manufacturing and Robotics for Faculties and Industry professionals	23- 27/03/2015	Faculties across Maharashtra	22	Organizing Quality Improvement Programs For Faculty and Industry Professional in and around the Region
6	Short Term Training Program On Advance Computation	11-12/05/ 2015	Faculties across Maharashtra and Chhattisgarh	26	The Created Centre of Excellence will conduct global and National Conference and Training Programs
7	Short Term Training Program On Mathematical Modeling And Simulation	14-15/05/ 2015	Faculties across Maharashtra and Chhattisgarh	24	Organizing Quality Improvement Programs For Faculty and Industry Professional in and around the Region
8	One Week STTP On Modeling, Simulation And Computation Using MATLAB And SIMULINK	24-28/08/ 2015	Faculties across Maharashtra and Chhattisgarh	21	Organizing Quality Improvement Programs For Faculty and Industry Professional in and around the Region.
9	STTP on Modeling and Simulation	11-12/10 2015	UG,PG students of Nagpur university region	31	Create a Pool of Highly Skilled Resources which can be utilized by the Industry in India as well as Abroad

The Centre of Excellence is also used for the benefit of UG/PG projects, details are given below:

S. N.	Title of Project	Category	Domain/Facility required
1	Robot Trajectory And Process Validation Through Offline Programming in Virtual Environment using Robcad	M.Tech. Production	Robcad
2	Design Of Modular Fixture For CNC Turning	M.Tech. CAD/CAM	Flexturn CNC Machine
3	Design Of Modular Fixture For CNC Milling	M.Tech. CAD/CAM	Flexmill CNC Machine
4	Validation And Process Simulation of Nonlinear Cutter Trajectory for Profile Milling Using NX CAM And Flexmill With Siemens 828 D Controller	B.E. Mechanical	NX CAM and Flexmill with Siemens 828 D controller
5	Process Validation And Path Verification of Profile Milling Operation Using NX CAM and Flexmill CNC Machine	B.E. Mechanical	NX CAM and Flexmill CNC
6	Trochoidal Path Validation of Cavity Manufacturing Using NX CAM and Flexturn CNC Machine	B.E. Mechanical	NX CAM and Flexturn CNC machine
7	Performance Evaluation of Robot Trajectory For Irregular Welding Path using Robcad	B.E. Mechanical	Robcad
8	Curve Fitting and Time-Optimal Interpolation on CNC Machines	B.E. Mechanical	NX CAM
9	Optimization And Process Simulation Of Nonlinear Cutter Trajectory of Flexmill CNC	B.E. Mechanical	NX CAM and Flexmill CNC

Currently one faculty member is using the facility created for her research work leading to Doctoral Degree

S. N.	Title of Project	Name of Students	Domain/Facility required
1	Experimental Investigation Of Machining Operation Under Optimal Lubricant Use	Mrs. Shilpa Sahare	Flexmill CNC Machine

Criterion IV: Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 How does the College plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

In the college each programme is provided with separate physical infrastructural facilities. Required number of Classrooms, Tutorial rooms and laboratories are made available to the each department in the college.

Classrooms in the departments are essentially being used to conduct theory classes and Tutorial rooms are used to conduct tutorials, for students of UG programmes from 3rd semester to 8th semester between 9AM to 4 PM. Two departments Electronics & Telecommunication Engineering and Electrical Engineering have been permitted by regulatory authorities to run the UG programmes in two shifts, in such department's theory / tutorial classes for UG programmes are conducted between 11AM to 6 PM. Engineering departments also offers PG Programmes in their respective streams. Separate Classrooms and Laboratories are available for conducting Theory classes and Practical work for these PG Programmes.

For conduction of 1st and 2nd semester classes of all the UG programmes separate academic instructional facilities are created under the control of General Sciences and Humanities Building. The building has sufficient number of class rooms, laboratories required for all the subjects taught.

The details of number of class rooms and area available with each teaching department, area and number of class rooms available for common instructional facilities, number of labs and area available (department wise), are as under:

Campus Infrastructure Details

- 1) Land Area 14.0 acres
- 2) Total Built up Area 37040.72 Sq.m. (Excluding Hostel)

S. N.	Particulars	Area in sq. m
1	Instructional Area	16478.87
2	Institutional Area (Common facilities)	1814.74
3	Amenities Area	6242.38
4	Administrative Area	5027.77
5	Circulation Area	7476.96
6	Hostel Area	825.62
	Total Area	37866.34



YCCE Campus Map



Administrative Building



Computer Center



Civil Block



Mechanical Block



Computer & Electrical Block



Electronics & ETC Block



Science Block



Workshop Block

Common Facilities Infrastructure Details

Sr. No.	Particulars	Number	Area in sq. m.
1	Classrooms	58	4732.28
2	Tutorial Rooms	39	1524.81
3	Laboratory	98	8469.92
4	Computer Center	01	186
5	Workshop	03	396.82
6	Library	01	1417.92
7	Seminar Hall	07	1144.27
8	Departmental Library	06	241.51
	Total Area		18113.53

Departmental Infrastructure Details

S. N.	Department	No. of Class Rooms	No. of Tutorial Rooms	No. of Laboratories	Seminar Hall	Departmental Library
1	First Year	13	05	06	00	00
2	CE	09	06	14	01	01
3	ME	09	07	18	01	01
4	EL	06	04	13	01	01
5	EE	06	06	14	01	01
6	ETC	06	04	11	01	01
7	CT	06	04	11	01	01
8	IT	03	03	11	01	00
	Total	58	39	98	07	06

Wherever, different departments / programmes have to share common facilities it becomes necessary to frame the time table for the programme(s) in such a manner that for every single theory or tutorial class which is being allotted to the respective department classroom or tutorial room should be made available. To achieve this objective proper academic planning of entire teaching schedule and time table for a particular programme is very important.

Dean (Academics Matters) prepares academic calendar for all UG as well as in PG programmes. Accordingly respective departments prepare time table for each of the semesters. For first and second semesters of UG programmes time table is prepared by first year coordinator. Time tables for all the programmes are prepared giving due considerations to availability of class rooms, laboratory and faculty to engage a particular course in the

department. Every department designates one of its faculty members as In-Charge Time Table. He/She has to work in liason with the fellow colleagues from other departments for sharing common academic instructional facilities.

Thus, with proper and advance academic planning, adequate availability of physical infrastructure is ensured which also facilitates its optimum utilization.

4.1.2 Does the College have a policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Whenever new programmes or increase in intake are sanctioned from authorities, it becomes necessary to provide required and adequate infrastructure to run these programmes with good teaching learning environment.

In the year 2012-13 the intake of UG programme in Mechanical Engineering and Civil engineering is increased from 120 to 180. Progressively necessary infrastructure both class rooms as well as laboratories facilities required to meet additional intake is made available.

College has also made available necessary physical infrastructure for various PG programmes started in last five years by various engineering departments.

In the recent past, new building is constructed to accommodate additional intake at First year level. In the same building for Department of Information technology new facilities are created.

Additional floor is constructed to accommodate increase in intake of UG Electrical Engineering Programme. Similarly extension to Civil department is also constructed to accommodate additional intake of Civil Engineering programme

Recently the entire examination cell was restructured as per the specifications given by Controller of Examinations (CoE).

College continuously undertakes renovation work of various department facilities to accommodate the more number of students, Laboratories added due to Autonomous syllabi, faculty rooms, etc as and when required.

4.1.3 Does the College provide all departments with facilities like office room, common room, separate rest rooms for women students and staff?

All teaching departments are provided HoD cabin, office rooms, cabins or cubicles for faculty, seminar rooms, and separate wash rooms for ladies staff members and separate rest rooms for girls.

4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students / staff with disabilities?

The departments take care to arrange the classes for physically handicapped students on ground floor only. Ramps are made available to physically disabled students / staff. Lift facilities is made available in newly constructed Information Technology department, in Civil Engineering department under installation and in other department under consideration. Toilet facilities suited to the requirements of physically handicapped students are under consideration.

4.1.5 How does the College cater to the residential requirements of students? Mention

- Capacity of the hostels and occupancy (to be given separately for men and women)
- Recreational facilities in hostel/s like gymnasium, yoga center, etc.
- Broadband connectivity / wi-fi facility in hostel/s.

Institute has excellent hostel facilities for those students who wish to avail the residential campus facilities.

- College has exclusive boys hostel building with a capacity to accommodate around 220 students. Usually students are provided with double / triple occupancy rooms.
- College has tied up for Girls hostel with Savitribai Fule Mahila Vastigruh exclusively for college students which houses around 100 students as double / triple seated occupancy.
- A dedicated lease line connectivity of 40 Mbps is available with college which is shared with Boys hostel. Wi-fi connectivity is made available at hostel premises and all the rooms in both boys' have net access for 24 hours.
- Both boys' hostels as well as girls' hostel are equipped with mess, canteen and indoor/outdoor recreational facilities which include gymnasium facilities and yoga centre.
- First Aid box are available at each hostel. The emergency medicines as suggested by the Doctor are available and are checked regularly for expiry of Medicines
- Medical practitioners and nursing staff is available on the campus, to take care of all regular check ups and minor ailments. In case of an emergency, Medical facility of Lata Mangeshkar multi specialty hospital which is located within 1 km from college are availed.

- Both hostels is provided with the hostel warden who provides services round as clock caretakers along with other requisite staff.
- Clean, healthy and cheerful atmosphere is maintained in the hostel premises.



Boys Hostel

4.1.6 How does the College cope with the health related support services for its students, faculty and non-teaching staff on the campus and beyond?

- In all departments, administration block, Boys' hostels on every floor, water coolers fitted with purifying (disinfecting) systems (e.g. aqua guards) are provided so that students can get germ free pure drinking water without any difficulties. These water purifiers are periodically cleaned and serviced by the concerned companies. In every building on all the floors, gents and ladies toilets and washrooms are provided for both staff and students. They are cleaned every day by the workers appointed for maintenance of these facilities.
- First Aid box are available at each department. The emergency medicines as suggested by the Doctor are available & are checked regularly for expiry of Medicines. Medical practitioners and nursing staff is available on the campus, to take care of all regular check ups and minor ailments. In case of an emergency, Medical facility of Lata Mangeshkar multi specialty hospital which is located within 2 km from college are availed.
- In order to take care of hospitalization or specialized treatment and medications students are advised to avail of health insurance. The institute has tie-up with a reputed insurance company to provide medical insurance cover to faculty, non-teaching staff and the students enrolled in the college.

- Annual Medical Check-up camp for both teaching and non-teaching staff are organised by the college, wherein team of expert doctors offer their services in this medical camp.

4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?

Besides Students' Representative Council (SRC) all the teaching departments have their respective streams' Students' Associations / Chapters. Every Year SRC on behalf of college, organizes annual social gathering 'YASH' wherein events based on cultural activities, quiz elocution and sports competitions are organised with a main thrust on cultural events and sports. Students get ample of opportunities to show their hidden talents by way of participation in these events.

Besides these, Departmental Student's Associations, too, organize 'cultural events' on the eve of their respective 'foundation day'. Here also students get an opportunity to show their talents.

- College has its own music club through which students get an opportunity to nurture their hobby and hone their musical skills further.
- For recreational purposes college has constructed gymnasium (Area 483.12 sq.ft) in the vicinity of Boys' Hostel wherein all the required facilities and equipments are made available to the students.
- Also College has made available both indoor and outdoor sport facilities for students.
- Department of Physical Education always encourages the students for their active participation in various sport events conducted at college, intercollegiate and at university levels.

In fact, in many of the sport events conducted at University level (Various intercollegiate sport events conducted by RTM Nagpur University Nagpur) students have brought laurels to the college by exhibiting extraordinary performances in particular sport events.

- The college boasts of an ultramodern Sports and Gymnasium facilities for the use of students and staff. College is having outdoor facility to play cricket, football, alongwith athletic events like shot-put, discuss throw etc can be practiced. Volleyball courts in the vicinity of boys hostel is also available. Indoor sport facility for playing Table Tennis is also created. College has also made available gymnasium facilities for boys and girls. Boys' gymnasium is having ultramodern equipments plus multistate machine.

- Play Ground
- Gymkhana
- Indoor sports facilities for Boys
- Indoor sports facilities for Girls
- Auditorium
- Girls Common Rooms
- Cafeteria (Canteen)



Gymkhana



Swimming Pool



Shri. Datta Meghe Auditorium



Canteen

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes. Library has an advisory committee. The Library Committee meeting is conducted once in a semester on the issues of functioning of library, evaluation of library activities, modernization of library, updating the library , library budget & the needs of the library, utilization of fund, improving library services & resources, and suggestions for improvement.

Details of Composition of Library Committee is as under:

Chairman	Dr. U.P.Waghe
Teacher Members Nominated by Principal	Dr. S. V. Ambekar Dr. S. S. Chaudhari Prof. B. Y. Bagade Dr. Kavita Singh Dr. Ujjwala Gawande Dr. S.V. Rathkanthiwar Dr. P. L. Zade
PG Students' Representative	Akshay A. Katolkar Suresh Venkatesan
UG Students' Representative	Aishwarya Deshpande Akshat Marathe
Member Secretary	Smt. S. R. Wankhede, Librarian

Services of Library are planned in such a way that its functioning is always user friendly with more focus on students' convenience and their activities. Library advisory committee gives its suggestions to make the functioning more comprehensive. Some of the salient features of Library are:

- 1) Library automation,
- 2) Bar coding of books,
- 3) Open access for Library books,
- 4) Book recommendation by student and staff,
- 5) Recommendation for subscribing journals by staff,
- 6) College book bank scheme for meritorious students,
- 7) Free book bank facility for intake wise toppers,
- 8) Book bank to SC/ST students through social welfare,
- 9) Subscription of e-journals,

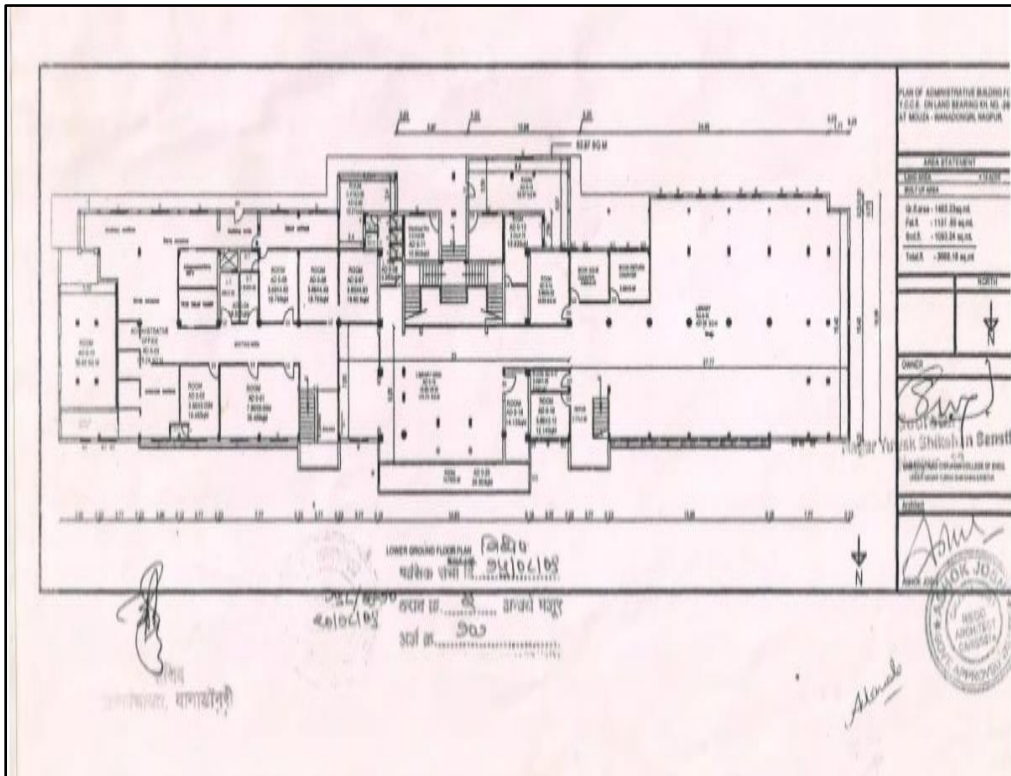
- 10) E-book facility
- 11) Home loan increased from five to seven books,
- 12) Vacation issue facility,
- 13) Implementation of CCTV monitoring system,
- 14) CD mirror server facility,
- 15) Information dissemination through multimedia presentation and notice boards.
- 16) Awareness of library facilities on college website,
- 17) Extension in area of the library stack room, e-resources section, periodical section and book bank section etc.

4.2.2 Provide details of the following:

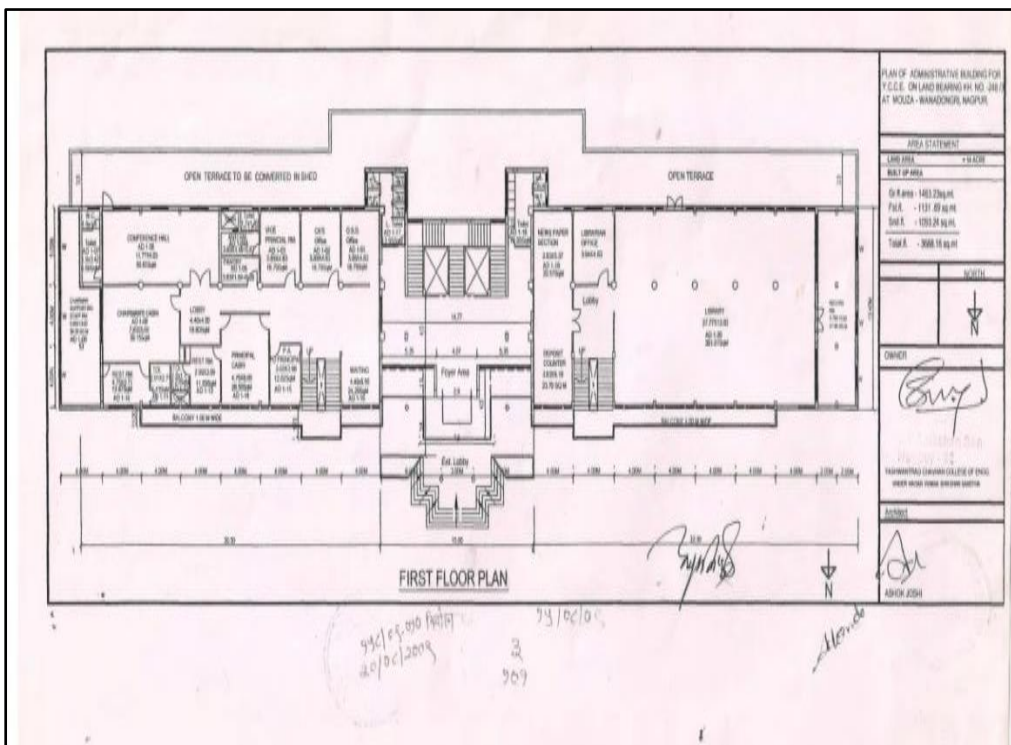
Total area of the library	
Total area of the library (in Sq. Mts.)	1498.78 Sq. m.
Reading area	286.76 Sq. m.
Total Seating Capacity	230
Working hours	
Working hours (Monday to Friday)	8 a.m. to 6 p.m.
Working hours (Saturday)	8 a.m. to 4 p.m.
Working hours (Sunday)	10 a.m. to 5 p.m.
On holidays	Closed
Before examination days	Same as on working days
During examination days	Same as on working days
During vacation	Same as on working days
Layout of the library	Floor plan attached
Individual Reading Carrels	Yes
Lounge area for browsing and relaxed reading	Yes
IT zone for accessing e-resources	Facility provided
Mode of access to collection	Open access

- * Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently abled users and mode of access to collection.

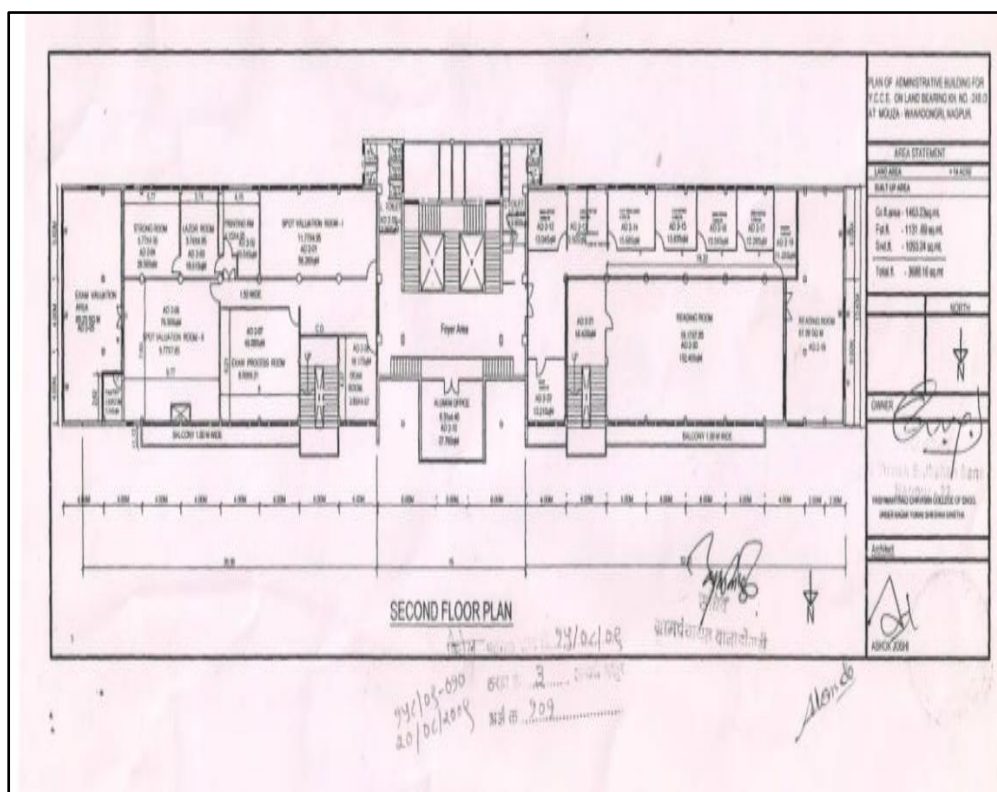
Library Floor Plan (Ground Floor)



Library Floor Plan (First Floor)



Library Floor Plan (Second Floor)



4.2.3 Give details on the library holdings

Details on the library holdings are		Total No.
a) Print	Books (Engineering and other)	87723
	Back volumes	3422
b) Non Print (Microfiche, AV)	VODs', DVDs', VCDs', CDs'	1202
c) Electronic	E-books (Mandatory)	2088
	E-books (Springer and Wiley)	9765
	E-Journals	2952
d) Special collection	Text books (Engineering)	84329
	Reference books & standards	8847
	Patents	Nil

Department wise total No. of Titles & Volumes available in Library

S. N.	Course	Total No. of Titles/ volumes/ Amount (2011-12)	Total No. of Titles/ volumes/ Amount (2012-13)	Total No. of Titles/ volumes/ Amount (2013-14)	Total No. of Titles/ volumes/ Amount (2014-15)
A.	UG Course				
1.	CT	89/781	45/862	61/753	156/838
2.	IT	67/549	51/440	34/227	61/427
3.	EE	84/1092	74/957	80/1013	88/832
4.	ET	56/741	62/1083	38/856	70/799
5.	EL	27/532	21/483	60/948	73/809
6.	CE	30/307	21/650	54/719	155/996
7.	ME	22/279	34/875	94/796	118/765
8.	Applied Sciences	13/288	08/401	17/717	21/382
B.	PG Course				
1.	CSE	16/112	09/25	21/246	41/218
2.	IT	01/05	54/185	30/120	66/111
3.	Electronics	29/92	12/75	14/68	36/103
4.	VLSI	10/70	01/15	20/157	25/77
5.	Com	12/49	14/62	12/51	70/104
6.	IPS	23/77	22/82	34/94	51/90
7.	Structural	51/86	11/62	35/91	58/92
8.	Env	49/155	---	---	66/242
9.	CAD/CAM	19/56	01/03	05/25	25/35
10.	PR	11/53	---	13/48	30/41
	Total A+B	609/5324	440/6260	622/6929	1210/6961
C.	Other				
1.	EAT	61/101	14/44	36/69	132/288
2.	GE	47/59	01/02	05/07	25/31
3.	PD	52/55	---	---	65/73
4.	E-books Mandatory	2088/2088	---	---	---
5.	E-books (Springer)	---	---	---	9703/9703
6.	Bound volumes	---	115/115	223/223	---
	Total A to C	2857/7627	570/6421	886/7228	11135/17056

Total No. of Titles, Books, and Journals with respective amount Up to 31/07/2015

No. of Titles	No. of Volumes	Total Cost In Rs.	No. of National Journals	No. of International/ e- Journals	Total Cost In Rs.
32994	101520	3,33,87,764	179	2952	1,11,92,243

Branch wise position of Books and Journals Up to 31/07/2015

S.N.	Branch	Books		Journals	
A	UG Course	No. of Titles	No. of Volumes	No. of National Journals	No. of International/ e-Journals
1	CT	4587	14164	12	2833
2	IT	1006	3769	07	
3	EE	2350	11617	11	
4	ET	904	5722	15	
5	EL	1736	9658	13	
6	CE	3149	11875	13	35
7	ME	4364	13972	26	28
8	Applied Sciences and humanities	2803	11902	22	
	Total (1 to 8)	20899	82679	119	2896
B	PG Course				
1	CSE	189	948	10	2833
2	IT	162	439	05	
3	Electronics	507	1560	05	
4	VLSI	181	838	10	
5	Communication	178	600	05	
6	IPS	495	1232	05	
7	Structural	669	1441	05	35
8	Environmental Engineering	128	411	05	
9	CAD/CAM	458	1156	05	28
10	Production	573	1350	05	
	Total (1 to 10)	3540	9975	60	
C	Other				
1	EAT	583	1060	---	
2	GE	2149	2605	---	
3	PD	266	299	---	
4	E-books (Mandatory)	2088	2088	---	
5	E-books (Springer)	9703	9703		
6	Bound volumes	3422	3422	---	
	Total (1 to 6)	18211	19177	173	
	Total (A to C)	42650	111831		

Statement showing the availability of number book sets for B.E. I, II, III, IV Year students under College Book Bank Scheme & No. of Sets Issued in last four years.

Book bank for meritorious (Student/ Book Issued)

Year	Branch	Available/Issued			
		2011-12	2012-13	2013-14	2014-15
I Yr	All	66/297	26/73	22/101	7/25
II Yr	CE	3/14	2/3	---	1/7
	ME	3/13	6/22	---	2/25
	EL	2/9	1/2	2/5	9/31
	EE	4/15	4/8	---	2/13
	ET	11/45	---	6/33	4/24
	CT	5/23	6/20	---	3/13
	IT	7/35	---	--	---
III Yr	CE	13/51	2/6	3/8	1/3
	ME	10/40	---	--	1/10
	EL	8/31	5/17	1/4	1/10
	EE	6/23	3/11	3/4	2/13
	ET	19/72	1/1	3/7	5/38
	CT	8/35	15/59	6/25	---
	IT	3/11	2/6	7/9	1/10
IV Yr	CE	1/3	4/6	---	3/8
	ME	3/11	3/12	1/2	2/11
	EL	3/11	4/6	6/29	1/5
	EE	2/9	---	11/48	1/8
	ET	7/24	8/36	15/64	15/35
	CT	---	6/12	4/11	4/18
	IT	1/4	11/35	1/2	2/6
Total		185/776	109/335	91/352	67/313

Statement showing the availability of number book sets for B.E. I, II, III, IV Year students under College Book Bank Scheme & No. of Sets Issued (From 2010-2011 to 2014-2015)

Book bank under Social welfare (Set/Student/Book Issued)

Year	Branch	Available/Issued			
		2011-12	2012-13	2013-14	2014-15
I Yr	All	37/6/43	46/12/38	46/46/119	78/13/58
II Yr	CE	2/3/19	4/4/14	4/7/34	14/6/34
	ME	1/2/14	3/5/18	3/10/46	8/4/31
	EL	1/1/8	3/1/3	3/4/17	10/7/44
	EE	4/2/13	6/4/11	6/7/32	13/11/49
	ET	1/6/27	3/1/4	3/9/38	10/11/57
	CT	2/3/13	4/2/9	4/17/77	9/9/45
	IT	3/5/28	4/3/12	4/--/--	10/7/50
III Yr	CE	4/11/68	7/3/12	7/4/15	14/4/19
	ME	3/3/16	6/1/4	6/5/19	12/7/51
	EL	1/2/14	3/--/--	3/4/17	13/7/44
	EE	2/3/18	4/3/12	4/14/56	10/11/65
	ET	2/7/45	4/4/16	4/19/82	11/11/68
	CT	2/4/36	4/7/30	4/18/83	12/10/60
	IT	2/7/56	3/2/4	3/6/17	8/1/4
IV Yr	CE	--/--/--	--/--/--	--/--/--	8/5/21
	ME	2/4/23	2/4/16	2/8/35	8/2/5
	EL	2/--/--	2/--/--	2/--/--	8/2/8
	EE	5/2/11	5/--/--	5/4/15	9/5/21
	ET	2/--/--	2/4/17	2/3/10	8/11/45
	CT	3/3/21	3/8/30	3/9/30	9/8/35
	IT	--/--/--	--/--/--	--/--/--	3/2/7
Total		81/74/473	118/68/250	118/194/822	285/154/821

Abbreviations

CT – Computer Technology	PH - Physics
IT – Information Technology	CH - Chemistry
EE – Electronics Engineering	MT - Mathematics
ET – Electronics and Telecommunication	LA – Communication Skill
EL – Electrical Engineering	SS – Social Sciences
CE – Civil Engineering	SC – Science books
ME – Mechanical Engineering	EAT – Engineering and Technology
CSE – Computer Science Engineering	GE – General books
ITPG – Information Technology (PG)	PD – Personality development related books
Electronic – Electronics Engineering (PG)	Com – Communication Engineering
IPS – Integrated Power System	Structural – Structural engineering
VLSI – VLSI Technology	Env – Environmental Engineering
CAD/CAM – CAD/CAM PG	PR – Production Engineering

4.2.4 What tools does the library deploy to provide access to the collection?

Particulars	Comments
OPAC (Online Public Access Catalogue)	Yes
Electronic Resource Management Package for e-journals	Yes. a) Global Information System Technology Pvt. Ltd., New Delhi for procurement of IEL; ASME; and ASCE. b) Allied Publishers, Mumbai for Procurement of AICTE ELSEVIER SCIENCE DIRECT
Federated Searching Tools to Search Articles in Multiple Databases	Yes, INFLIBNET
Library Website	The Library Information has been integrated in the website of the college. The library does not have an independent website
In-house/remote access to e-publications	A large collection of digital texts, question paper sets and newspaper clippings have been made available on Intranet with IP Address //172.16.1.4

4.2.5 To what extent is the ICT deployed in the library?

Particulars	Comments
Library Automation	Yes
Total number of Computers for Public Access	44
Total Numbers of Printers for Public Access	01 (Installed in e-resources section)
Internet Band Width Speed	Total of 40 Mbps - 30 Mbps leased line from reliance and 10 Mbps broadband VPN connection under NMEICT project through which we can access e-education contents of premiere institute like IITs, IIMs and Universities etc. Internet is available in reading room through Wi-Fi
Institutional Repository	Yes

Content Management System for e-learning	To focus on collection development in different formats and to organize the collection in ideal way, we use NAS server since 2007 with capacity of 8 TB which contains online videos of IIT, Kharagpur, NPTEL courses and e-books. Students can access NAS sever on intranet as well as internet having intranet capacity of 1600 plus machines which is supported with Set up of 40 machines in e-resource section of library.
Participation in Resource Sharing Networks/Consortia (like INFLIBNET)	DELNET and INFLIBNET (N-List)

4.2.6 Provide details

Particulars	Comments
Average Number of walk-ins	500
Average Number of Books issued/returned	650
Ratio of Library Books to Students Enrolled	22 : 1
Average Number of Books Added During Last Three Years	10200 (30705- including Springer e-books)
Average Number of login to OPAC	75-100
Average Number of login to e-resources	40
Average Number of e-resources Downloaded/Printed	10-15
Number of Information Literacy Trainings Organized	16

4.2.7 Give details of the specialized services provided by the library

Particulars	Comments
Reference	Yes
Reprography	Yes
ILL (Inter Library Loan Service)	Yes
Information Deployment and Notification	Yes
OPAC	Yes
Internet Access	Yes
Downloads	Yes

Printouts	Yes
Reading List/ Bibliography Compilation	Yes
In-house/remote access to e-resources	Yes
User Orientation	Yes
Assistance in Searching Databases	Yes
INFLIBNET/IUC Facilities	Yes

4.2.8 Provide details on the annual library budget and the amount spent for purchasing new books and journals.

Year	Budget Allocated in Lacs	Particulars	Actual expenditure in Lacs	Total in Lacs
2011-12	54.60	31.10 (Books)	27.79	54.90
		23.50 (Journals)	27.11	
2012-13	46.54	28.00 (Books)	27.41	33.79
		18.24 (Journals)	6.38	
2013-14	50.00	33.84 (Books)	34.25	48.29
		15.30 (Journals)	14.04	
2014-15	54.60	31.10 (Books)	35.35	54.70
		23.50 (Journals)	19.35	

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services.

During student representatives meetings, feedback is sought from the students, compiled and presented before library committee for action to be taken. As per the action plan finalized by the library committee, implementation is done to improve quality of library sources and services.

Regular feedback is sought from student at institutional level, wherein library related points are also covered. This feedback is analyzed by the office of Dean (Acad), which is forwarded to Library for any specific action required.

Also in library suggestion Box is installed, which is checked with regular frequency.

4.2.10 List the infrastructural development of the library over the last four years.

Development of library in last four years:

- 1) Increase in number of books as per autonomy syllabi.
- 2) Development of e-resources centre with 40 computers for providing e-learning facility.
- 3) Deployment of CCTV monitoring system for reducing incidents of theft, tearing of pages.
- 4) Deployment of In-house computerized electromagnetic identity card machine.
- 6) Provision of e-book facility.
- 7) Availability of e-resources and question paper sets on IP address [\\172.16.1.4](http://172.16.1.4)
- 8) Facility of book issuing during summer vacation.
- 9) Increase in issuing time period during summer and winter examination.
- 10) Provision of document scanning and print outs.
- 11) Increase in number of books issuing per student.
- 12) Facility of competitive exam book issue for one week.
- 13) Conducting book exhibition.
- 14) Preparation of Institutional Repositories.
- 15) Compact storage of less use collection.

4.2.11 Did the library organize workshop/s for students, teachers, non-teaching staff of the College to facilitate better Library usage?



Book Exhibition

Librarian through presentation elaborates about the working system, resources, services, and rules and regulations to be followed in the library. Awareness program about e-resources and other facilities is also conducted by librarian for Class representatives of all branches of UG courses.

During Orientation program like ‘Know your Library’ organized for first year students, librarian in her address briefs up the students with regards to,

1. General working of library
2. Working hours
3. Check point
4. Circulation counter timings
5. Library membership
6. Period of loan
7. Library sections
8. Shelf arrangement
9. Online Public Access Catalogue
10. Learning material
11. The Reference Desk
12. E-resources
13. Periodicals
14. Library development
15. Institutional Repositories

At the time of Swami Vivekanand Jayanti, Spiritual speech, Live performance, Essay competition has been organized by library for students and non-teaching staff.



e-Resource Section of Library

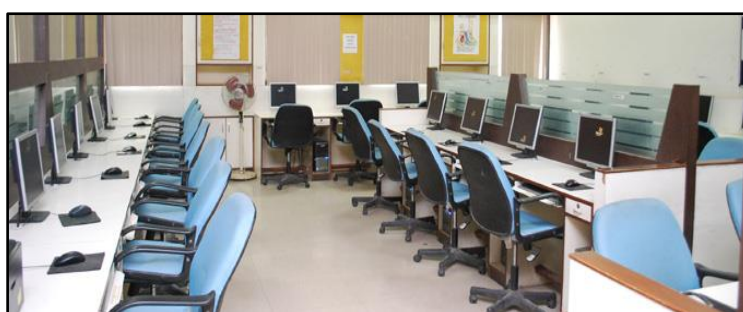
4.3 IT Infrastructure

4.3.1 Does the College have a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management?

- As regards to IT policy of college is concerned college authorities always emphasis on the use standard tools and open source software's or proprietary software provided by various reputed hardware and software companies. Also, institute is having Enterprise level UTM Firewall (DELL SONICWALL E5500) for internet security and risk management and Antivirus corporate edition software (Quick Heal Seqrite end point security business edition) of 230 users for system security in the department.
- All Departments are making maximum possible use of open source software's for development of Teaching /Learning resources and to use these on the web and in classroom presentations.

4.3.2 Give details of the College's computing facilities (hardware and software).

Particulars	Available
Desktops	1833
LAPTOPs	20
Laser Printers	160
Heavy Duty Printers	02
Scanners	24
Internet Connectivity Relience Communication : 30 Mbps BSNL:10 Mbps Under NMEICT	30 Mbps (1:1) 10 Mbps (Shared)
Backbone	Fiber,CAT-5 & CAT-6
Software (Licensed)	OS, Progg. Tools & Databases



Desktop Purchase during last four years

Configuration	Quantity and Price	Purchase Date
Acer Veriton Intel 4th Gen. Dual Core,H81, 4GB DDR3 RAM 500 GB SATA HDD ,DVD Writer, 18.5” WTFT Monitor Keyboard, Mouse. Free DOS	62 24500	10/7/2015
Acer Veriton Intel 4th Gen. core i5-4460,H81, 4GB DDR3 RAM 500 GB SATA HDD ,DVD Writer, 18.5” WTFT Monitor Keyboard, Mouse. Free DOS	20 34500	10/07/2015
Acer Veriton Intel 4th Gen. core i3-4160,H81, 4GB DDR3 RAM 500 GB SATA HDD ,DVD Writer, 18.5” WTFT Monitor Keyboard, Mouse.Free DOS	28 27142	10/07/2015
HP WORKSTATION Z1 INTEL E3 1226 V3.3 QUADE CORE CPU, 16GB RAM,1TB HDD SATA,NVIDIA Quadro k2100M-2 GB ,DVDRW	1 260000	31/03/2015
Acer Veriton Intel 4 TH Gen. core i7,8GB DDR3 RAM 500 GB SATA HDD ,DVD Writer, 18.5” LED Monitor, Free DOS	5 47000	30/8/2014
Acer Veriton Intel 4th Gen. core i5-4440,H81, 4GB DDR3 RAM 500 GB SATA HDD ,DVD Writer, 18.5” WTFT Monitor, Free DOS	40 31000	14/07/2014
Acer Veriton Intel 4th Gen. core i3-4130,H81, 4GB DDR3 RAM 500 GB SATA HDD ,DVD Writer, 18.5” WTFT Monitor Keyboard, Mouse, Free DOS	102 27000	14/07/2014
Acer Veriton Intel 4th Gen. core i3-4130,H81, 4GB DDR3 RAM 500 GB SATA HDD ,DVD Writer, 18.5” WTFT Monitor Keyboard, Mouse, Free DOS	60 22000	10/07/2014
Lenovo M72e Intel Dual Core 3rd Generation G2020 (2.93 GHz) Intel H61 Motherboard, 2GB DDR-3 RAM	40 19429	27/06/2013

(1333Mhz),500GB SATA HDD (7200 rpm), DVD Writer, Lenovo Keyboard, Lenovo Mouse 10/100/1000 MBPS NIC Integrated LAN Card Lenovo 18.5" Backlight LED Monitor Warranty 3 Year Onsite		
Lenovo M72e Intel Dual Core i3 Intel H61 Motherboard, 2GB DDR-3 RAM(1333Mhz),500GB SATA HDD (7200rpm), DVD Writer, Lenovo Keyboard, Lenovo Mouse 10/100/1000MBPS NIC Integrated LAN Card Lenovo 18.5" Backlight LED Monitor Warranty 3 Year Onsite	33 24000	27/06/2013
Acer Verition M200 G-41 Intel Pentium DE 600 @ 3.06GHz / 2 MB Caches Intel G 41Chipset 2GB DDr3 RAM 500 GB SATA HDD DVD Writer 18.5" WTFT Monitor,Free DOS	80 20500	04/01/13
Dell T110 Tower Server	1	11/05/2012
Acer Verition M200, H61 Intel Core I3 -2120 @ 3.30GHz / 2 MB Caches Intel G 41Chipset 2GB DDR3 RAM 500 GB SATA HDD DVD Writer 18.5" WTFT Monitor,Free DOS	100 22,000/-	20/4/2012
Acer Verition M200 ,H61 Intel Pentium G630,Intel H61 Chipset 2GB DDr3 RAM 500 GB SATA HDD DVD Writer 18.5" WTFT Monitor, Free DOS	40 19320	23/06/2012
IBM/LENOVO WORKSTATION E30-7783RW,INTEL E3 1220 3.10 QUADE CORE CPU, 4GB RAM,1TB HDD SATA,NVIDIA Quadro 600-1 GB ,22" Wide TFT Model 2572 HD6	1 110000	1/3/2012

- Computer student ratio : **1:4 (and 1:1 during practical hours)**
- Dedicated computing facility: **Yes, purely dedicated to the respective department.**
- LAN facility : **Yes, All machines in every department are connected through LAN.**
- Propriety software / Open source software's.

A) OPERATING SYSTEMS

1. Microsoft Windows XP Professional
2. Microsoft Windows Server 2003/2008 Edition
3. Microsoft Windows Vista
4. Microsoft Windows 7.0
5. Microsoft Windows XP Home
6. Red Hat Linux
7. Fedora Linux Freeware
8. Microsoft Window 8.1
9. CENT OS 5 open source Linux server
10. WINDOWS 2000

B) SOFTWARE FOR PROGRAMMING

- | | |
|-------------------------------------|-----------------------|
| 1. Turbo C | 14. Turbo C++ |
| 2. Visual Studio 6.0 | 15. Visual C++ |
| 3. ORCAD | 16. MULTISIM |
| 4. SPICE SIMULATION SOFTWARE | 17. MATLAB 6.0 |
| 5. MICROWAVE OFFICE | 18. MAYA 3D TOOL |
| 6. CATIA | 19. AUTODESK |
| 7. LABVIEW | 20. PRO -E |
| 8. AUTOCAD | 21. STADD |
| 9. DIGITAL MEDIA CONVERTER | 22. ANSYS |
| 10. CODE COMPOSER STUDIO | 23. IBM RATIONAL ROSE |
| 11. MS VISUAL STUDIO (.NET) | 24. CRYSTAL REPORT |
| 12. 3D OFFICE MAX 2009 | |
| 13. ISM SOFTWARE WITH HARDWARE LOCK | |

C) DATABASE PROGRAMMING

1. ORACLE 10g AND 11g
2. ORACLE 9i
3. MICROSOFT SQL
4. SQL SERVER
5. FOXPRO
6. MICROSOFT OFFICE

- Number of nodes/computers with internet facility: **100%**
- Any other : Total Internet Bandwidth available is **40 Mbps**

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

College regularly procures branded hardware's and Software in a year. All the machines in the college are protected with Antivirus and security tools. College frequently updates network backbone. Entire campus is Wi-Fi enabled with the help of 25 indoor and 5 outdoor high end controller base CISCO access points.

Central computer center Manages and troubleshoots the campus network with the help of FLUKE Network Ether scope a Network Analyzer.

Department of Information Technology and CCC have purchased a MAC based machine for practice.

Also, many of the departments have updated the machines in their labs so as to have better performance and decided to use course related software's. Electrical Engineering department has decided to use electrical engineering related software i.e. MATLAB.

Library has updated its Library management software LIBSYS 4.0 to LIBSYS 7.00

Better access to internet has enabled faculty members to provide more of real time and challenging assignments to the students. The curriculum for different programmes is updated as per current trends and requirements. In fact, academic autonomy conferred to the college has provided an opportunity to bring out necessary changes/modifications to update the curricula taught.

Many of the faculty members besides adopting conventional teaching learning methodologies also include power point based presentations in their lectures. For this college has provided necessary infrastructure like fully networked campus with fibre-optic backbone, computers, printers, scanners, OHPs, LCD projectors to facilitate the faculty to prepare computer aided teaching-learning materials.

Department of Mechanical Engineering use SP-NXCACAD100 (NX-CAD) TECHOMATRIX ROBCAD TECHNOMATRICES FACTORY CAD software in Nafetic lab. and ANSYS Software in FMS lab.

ALL Departments Head also encourages its departmental faculty to use power point presentations and other audio video inputs to enhance the learning experience of the students.

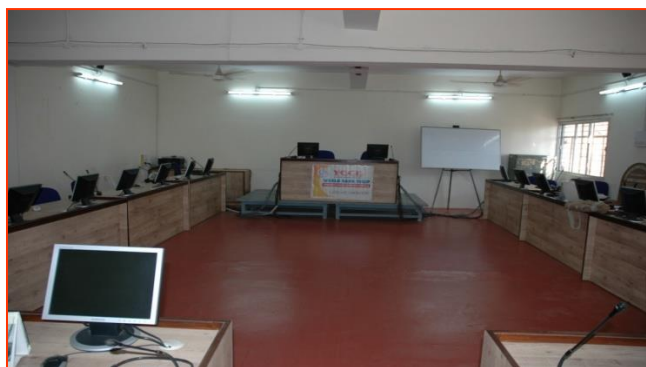
4.3.4 Give details on access to online teaching and learning resources and other knowledge, and information provided to the staff and students for quality teaching, learning and research.

- Most of the faculty members have been provided branded machines on their tables with all genuine software and internet facility.

- College has the IEEE digital library subscription to promote research.
- Students have Wi-Fi network connectivity access in their respective department.
- In fact all the hostel rooms in boys' hostels have net access through Wi-Fi .Faculty members can have access to sites like IEEE and journal like Springer, Wiley, ASCE, ASME, IEL growth plan etc which provide a lot of quality research papers and books. This helps both faculty as well as students to know the advances made in the relevant stream(s) of engineering and technology. Since both faculty and students can avail uninterrupted internet facilities and thus have direct access to learning resources like video lectures from various national and international institutions of repute like NITs, IITs, NPTEL, Berkley etc.

4.3.5 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.

- Wherever applicable ICT component has been introduced in the curricula of different engineering streams. The computer facility with internet connectivity having high bandwidth has been made available to all the faculty members as well as students through CCC. College has fully networked campus with fibre-optic backbone.
- Also, most of the teaching departments have their own computer laboratories/labs which are accessible to students too, at any time, during college hours.
- Faculty members with the help of online learning materials available on different educational sites or e-journals like IEEE, Springer, Wiley, ASCE, ASME, IEL growth plan to prepare the teaching learning material for course(s) they intend to teach.
- All the departments have been provided with laptops, Interactive LCD projectors, LCD projectors as additional teaching learning tools.
- Most of the departments have seminar rooms which are equipped with overhead projectors, LCD projectors computers with internet connectivity.



Language Lab.

4.3.6 How are the faculty facilitated to prepare computer aided teaching-learning materials? What are the facilities available in the College or affiliating University for such initiatives?

- College has been taking sustained efforts to bring out innovations in teaching learning methodologies in vogue so as to shift the focus from conventional teacher centered pedagogy to a learner centered educational module by introducing, where able feasible; projects field trips, internships and industrial trainings etc. The conventional dynamics of the classroom lecture is supplemented with student's participation through interactive sessions, power point presentations, group discussion and seminars. Innovative methods of teaching-learning and dissemination of information have gone beyond the syllabus to encourage healthy curiosity attitude and self study approach.
- Teaching methods are varied as per the demand of the subjects.
- In fact easy accessibility to internet facility, course materials on different subjects, video and web-based learning packages developed by IITs and IISc in different disciplines through National Programme on Technology Enhance learning (NPTEL) have cumulatively facilitated the faculty to prepare teaching-learning materials.
- As a consequence, most of the teaching departments besides adopting conventional teaching methodologies are using modern computer aided tools like power point presentations, video and web-based learning packages, as innovative teaching learning practices. In fact , college has provided necessary infrastructure like fully networked campus with fibre-optic backbone, computers, printers, scanners, OHPs, LCD projectors, e-books, e-journals to facilitate the faculty to prepare computer aided teaching learning materials for students.

4.3.7 How are the computers and their accessories maintained? (AMC, etc.)

- All the machines which are procured by the college are branded ones with reputed brands. The procumbent is with three years onsite warranty. The college performs regular writ-off for old equipments. The necessary AMC is provided for the equipment. College has provided sufficient number of technicians and supervisory staff to look after and maintenance of the machines available in different teaching and non teaching departments.
- The Central Computing Center Incharge regularly maintains DSR (Dead Stock Register) which contains the detail specifications of the computers and accessories, which has been purchased centrally and at the departmental level. The department has a maintenance registers containing details regarding troubleshooting and other maintenances for lab, equipments, staff PCs, laptops and computer related accessories.

4.3.8 Does the College avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?

- At present college avail the facility though 10 Mbps broadband line for online journals, FDP programs of IIT Bombay through A-View.

4.3.9 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College

- Budgetary provision made for i) update ii) deployment iii) maintenance of computer has been cumulatively incorporated .
- Besides this, the budget also includes expenditure incurred towards purchases of computers, its accessories and various software's.

4.4 Maintenance of Campus Facilities

4.4.1 Does the College have an Estate Office / designated officer for overseeing maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

College has established 'Maintenance Department' to look after the maintenance of entire physical infrastructure on the college campus which is headed by Officer on Special Duty (OSD) YCCE Campus; Maintenance department.

College has provided sufficient number of supervisory and other staff to take care of all sorts of maintenance work viz, water supply, plumbing and sanitation maintenance, electrical maintenance, Carpentry, cleaning of the entire college premises etc.

Maintenance department is responsible for Supervision of ongoing construction work, cleaning and maintenance works of entire college campus and also for bringing out improvement in the physical ambience of the college campus.

This department takes appropriate measures to maintain the beauty and hygiene on the campus throughout the year. College has made available services of gardeners for development and maintenance of greenery on the entire campus. In fact, college campus site, which once upon a time, was a balt hilly and rocky area, has been converted into a lush greenbelt due to sustained efforts.

To supervise the entire electrical maintenance of the college Campus College has appointed Electrical Maintenance Engineer. Actual electrical maintenance is being carried out by electrical technicians and helpers.

Under the supervision of Estate Manager, staff appointed for various civil works and electrical maintenance. They carry out entire civil work, electrical work and water work maintenance of all the buildings on the campus inclusive of administrative block, teaching departments, boys' and girls' hostels. Entire housekeeping work of the college campus including sanitary maintenance has been outsourced. The supervisory staff members appointed by the college look after these activities. Housekeeping staff, appointed by the agency to whom contract for house-keeping has been given; daily carry out cleaning, sweeping, dusting of all departmental laboratories, class rooms, library, administrative block. Besides this, they have to do floor cleaning of the building corridors, wash room cleaning, road cleaning etc daily. Apart from the maintenance staff, departmental non teaching staff members also have to keep track record of daily cleaning of their respective departmental laboratories and class rooms and give monthly report to HODs and the maintenance department.

Maintenance activities related to gardening, tree plantation, construction and maintenance of landscapes, creation and maintenance of greenery on the campus, external and physical beautification of the college campus, too, have been outsourced. Gardeners and labors who have been appointed by the agency that has been awarded the contract; daily carry out gardening activities like watering and day to day gardening related work. Maintenance department supervise these activities also. Apart from this, student volunteers from college NSS unit, Student forums undertake plantation work periodically on the campus. Because of the sustained efforts taken by one and all, college campus has been converted into lush green belt.

In order to have uninterrupted electrical supply to college campus two electrical generators have been installed on the campus. Except for major repair work entire maintenance of these generators is being carried out by college electrical maintenance staff.

Maintenance, cleaning, housekeeping, sanitary maintenance and cleaning of all the hostel buildings, too, have been outsourced. Substaff appointed in the hostels supervise these activities. Housekeeping and maintenance of cleanliness in the hostel mess and college canteen are the responsibilities of the respective contractors appointed in mess and or canteen.

Round the clock security on the college campus is done by the external agency appointed for security purpose and also by some of the college staff.

Decentralization of maintenance works on the college campus and outsourcing of all housekeeping related activities and maintenance of greenery on campus have enabled substantially to improve physical ambience on the college campus.

4.4.2 Does the College appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained? Give details.

- Entire maintenance of the college campus which includes, civil work maintenance, water works maintenance, electrical work maintenance and other miscellaneous maintenance work is monitored by the Maintenance Department. This important functional wing of the college is presently headed by Estate Manager. He is assisted by junior engineers (civil works and electrical works).
- College has appointed sufficient number of supervisory staff, technical and non-technical staff for civil maintenance, electrical maintenance, general maintenance, housekeeping and campus cleaning, gardening and maintenance of greenery on the campus. College has outsourced entire housekeeping work, campus cleaning work and sanitation work.

- Round the clock security is provided for entire college campus by availing the services of security guards. These services, too, are partially outsourced.
- Supervisory and nonsupervisory staffs are working in the construction and maintenance department.

This team of supervisory and non supervisory staff alongwith junior engineer (civil) and junior engineer (electrical) helps the Estate manager in the day to day maintenance work on the campus. Besides these, senior faculty from Electrical Engineering department advise, guide and monitor electrical maintenance on the campus.

- As regards to all civil maintenance work on the college campus is concerned it is carried out by giving contract to the external agency which works under the supervision of college civil maintenance staff.
- Entire electrical maintenance work on the college campus comprising of college buildings, laboratories, class rooms, staff rooms, generators, hostels, mess and canteen is being look after by electrical supervisor and helpers appointed by the college who carry out these works under the supervision Junior engineer, Electrical Maintenance.
- All activities related to creation and maintenance of greenery, construction of landscapes, plantation, and gardening are outsourced.
- Round the clock security on the college campus is being looked after by both college appointed staff and the external security agency to which the contract of security has been awarded.



Fire Safety Mockdrill for Support Staff

Criterion V: Student Support and Progression

5.1 Student Mentoring and Support

5.1.1 Does the College have an independent system for student support and mentoring? If yes, what are its structural and functional characteristics?

YES.

There is a Class Teacher system in place at first year level for student support. The faculty advisor system is operative from second year to final year at the respective departments.

In this system, a group of students 8-10 are allotted to faculty advisor. At first year level faculty looks after the complete class of around 70 students.

The Faculty Advisor has to keep a track of academic performance including class room attendance of these students. Faculty advisor guides and helps the students of his/her group in case of any personal problems. He also provides guidance to these students regarding their career advancements, professional upliftments and academic improvement.

The departments monitor the progression of the students' from the date of their admissions till the successful completion of the entire programme.

For redressal of their grievances, students have to approach the respective grievance redressal committees/cells.

5.1.2 What provisions exist for academic mentoring apart from class room work?

The academically brilliant students are mentored through a scheme called "Achievers' Club". A student is connected to the alumni of his choice of one year. The relationship could be extended further by mutual consent. The departmental committee also participates in the program.

The students are motivated to explore the engineering knowledge which is beyond the regular curriculum and their own discipline to produce technical papers, fabrication of models etc. They are motivated to participate in the technical workshops; competitions etc. organized by internationally reputed educational institutions.

The experience of external alumni mentor helps the student to understand the corporate culture and etiquettes. The mentor also helps in aligning the ideas of the students in right directions so that a paper, a model or a product can be a possible result.

There is a special budgetary provision for the activities of "Achievers Club".

The weak students are identified on the basis of their score in continuous evaluation. Similarly, the courses which are difficult to understand are also identified. The extra classes are conducted beyond the regular working hours.

5.1.3 Does the College provide personal enhancement and development schemes for students? If yes, describe techniques employed e.g., career counseling, soft skill development, etc.

For personal enhancement and development of the students college provides ample opportunities for the students for showcasing their technical, cultural and sports talents through the events like YCCE Fest, Pratikruti, Spandan, Compufest, ICON, Electrica, IT-Roots, Blood Donation Camps etc.

For capturing literally talents of students every department publishes magazine.

There are students clubs like Photograpy Club, etc to explore hidden talents among students.

Training and Placement Department organizes number of events for students on career counseling, enhancement of communication as well as interview skills. A series of aptitude tests is also conducted to excel in companies aptitude tests.

The teaching departments also conduct workshops, seminars to enhance the soft skills of the students. A Language Lab facility is offered by Humanities

Department to all the students.

In each semester, courses which are found difficult to students are identified. The faculty is assigned to these courses for engaging extra lectures after the conclusion of the regular teaching.

The freshly admitted students to I Year BE are inducted through a programme called 'GENNEXT' which is a 20 hour course. The Communication & Interpersonal Skills, personality, behavior and attitude are the contents of the course.

The students who are admitted laterally (Directly to Second Year BE after Diploma in Engineering) are taught in special classes after regular college teaching hours to strengthen their foundations and also the academic loss due to late admissions through Centralized Admission Process of State Government of Maharashtra.

To improve the language proficiency the students are offered a special course called Talk in English at III Sem. BE Level. This is a forty hours course.

To enhance the employment opportunities a special summer course entitled Campus Recruitment Training is offered after VI Sem. BE. This course runs for 80 to 120 hours during summer term.

Apart from the above programmes, each department conducts several Value Added Courses in Programme Specific Domains to bridge the gaps in academics & industries practices.

5.1.4 Does the College publish its updated prospectus and handbook annually? If yes, what are the activities / information included / provided to students through these documents? Is there a provision for online access?

The Academic Regulations, The Scheme of Examinations, The syllabi and other important documents related with the students are available on the college websites and can be downloaded whenever required. Apart from this online access, the college publishes the handbook for First Year students.



Induction Program of First Year Students

5.1.5 Specify the type and number of scholarships / freeships given to students (UG/PG/M.Phil/Ph.D./Diploma/others in tabular form) by the College Management during the last four years. Indicate whether the financial aid was available on time.

The management of the institution is very generous enough to provide scholarships/free ships to the merit and economically backward students. Based on the economic condition of the students, tuition fee waiver or concession in fees is permitted.

The amount of scholarship / financial assistance provided to students :
(Amt. in Lakhs)

Fee Concession to Students

Year	Amount (Rs. Lacs)	No. of Beneficiaries
2013-14	26.46	47
2012-13	19.05	46
2011-12	14.10	44

Tuition Fee Waiver Scheme

Year	Amount (Rs. Lacs)	Beneficiaries
2013-14	111.45	123
2012-13	101.65	119
2011-12	87.75	119

5.1.6 What percentage of students receives financial assistance from state government, central government and other national agencies? (e.g., Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)

NIL

5.1.7 Does the College have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?

The International Relations Office exists in the Institution to cater to international exposure of the Indian students and of foreign students. The office also looks after the relations between YCCE and other international universities. However, the institution does not have the mandate to admit foreign students.

5.1.8 What types of support services are available for

1. For Overseas Students:

The International Relations Office exists in the Institution to cater to international exposure of the Indian students and of foreign students. The office also looks after the relations between YCCE and other international universities.

2. For Physically Handicapped Students:

The college intends to take measures so as to enhance their comfort level. Departments in which physically challenged students are enrolled arrange theory classes, examinations on the ground floor as far as possible.

3. For students from SC/ST, OBC and economically weaker sections:

- A book bank facility is provided to SC/ST students in the college library.
- Admission seats are reserved for students from socially backward community.
- Assistance is provided to eligible SC/ST/OBC/EBC students to avail scholarship/freeship of government.

- College offers ‘Tuition Fee Waiver Scheme’ to the students of economically weaker section of society.

4. Students to participate in various competitions/conferences in India and abroad:

The college encourages students to participate in various National/International Technical events such as Students’ seminars and workshops, conferences organized at different reputed organizations like IIT’S, NIT’S etc. College gives attendance consideration for classes for the period of participation in these events.

5. Health Centre and Health Insurance:

A dispensary is available on the college campus. The doctor takes care of all regular check-ups or minor ailments. In case of an emergency, a patient is admitted to a specialized hospital with which memorandum of understanding is signed like Lata Mangeshkar Hospital

The college has tie-up with reputed insurance company to provide medical insurance to the students and staff (Teaching and Non Teaching staff).

Every student enrolled in the college has been insured under insurance scheme of National Insurance Co. Ltd. The policy is renewed every year.

Academic Year	No. of students	Amount paid (Rs.)	Name of Insurance Co.
2015-16	1601	911670/-	National Insurance Co. Ltd.
2014-15	1585	882307/-	National Insurance Co. Ltd.
2013-14	1351	706253/-	National Insurance Co. Ltd.
2012-13	3400	6610/-	New India Assurance Co. Ltd.

6. Skill Development (Spoken English, Computer Literacy, etc.)

The college has a well equipped Language Lab. which caters spoken language requirements of students. College has introduced GENNEXT (Personality Development), TiE (Talk in English) courses for first and second year students of all UG programmes. These courses are essentially designed to develop proficiency in communication skills and inter personal relationships among the students.

Every department under Student forums organizes various events such as SPANDAN, Pratikruti, guest lectures, workshops, paper writing and presentation events to enhance technical knowledge and computer literacy amongst the students.

7. Performance enhancement for slow learners / students who are at risk of failure and dropouts:

The weaker students or slow learners are identified from the performance of students in Mid Sessional Examinations. A student securing less than 40% marks in Mid Sessional examination is considered to be academically weak. They are asked to submit assignments in some departments and in some departments arrange extra classes for these slow learners to enhance their academic performance in the course.

Summer Term Classes are also conducted during summer vacation for such students.

8. Exposure of students to other institutions of higher learning/ corporates/business houses, etc.

Every department periodically organizes guest lectures, seminars by eminent academicians, researchers, industry personnel's and technocrats from reputed academic institutes of national repute, research establishments /organizations, industries. The objective of organizing these events is to make the students aware of the recent developments in the fields of Engineering and Technology, thrust areas of research in the various engineering disciplines etc.

Departments also arrange Industrial tours and visits to the industries. Departments also encourage students to join beyond syllabus 'Summer/Winter Training' organized in collaboration with industry.

9. Publication of Students' Magazines:

Every engineering department publishes an annual magazine. Students as well as faculty members contribute to it in the form of articles, poems and other literacy items. Many departments bring out either newsletters of their own department. Computer Technology Department publishes newsletter 'Technosavy' focusing on the recent technologies and research areas related to Computer Engineering field.

Department	Magazine	News Letter
Mechanical Engineering	INTIGRA	--
Civil Engineering	SKYLINE	--
Electrical Engineering	GNISTA	--
Electronics Engineering	Aadyam	ElectoNewsLine
Electronics & Telecom. Engineering	Esprit	--
Computer Technology	DHYASS	Technosavy
Information Technology	ZEAL	IT NEWS TRACK

5.1.9 Does the College provide guidance / coaching classes for Civil Services, Defense Services, NET/SLET and any other competitive examinations? If yes, what is the outcome?

The college has department-wise GATE Forums, which are headed by a Faculty In-charge. The GATE Forum motivates the students to go for the examination, arranges counseling sessions, expert lectures and mock tests.

The number of students qualified in various competitive examinations is shown below :-

Year	Number of Students Cleared Examinations						
	GATE	GRE/GMAT	CAT	Defense Services	Civil Services	CSIR_ NET	Any Other
2014-15	101	11	7	-	-	-	-
2013-14	75	16	5	-	-	-	1
2012-13	60	16	5	1	-	-	2
2011-12	34	13	5	1	-	-	1

5.1.10 Mention the policies of the College for enhancing student participation in sports and extracurricular activities through strategies such as Additional Academic Support, flexibility in examinations:

In order to enhance sport participations of the students in University/State/National level sports competitions, institute has extended the facilities, grant of attendance to the participating students, re-sit examinations etc.

For motivating the students to participate in sports activities and encourage them to enhance their performance in different tournaments, institute awards certificates, medals, and mementoes to the winners in different sports.

The weightage against a two credit course called extra-curricular activities is given on the basis of participation by the students in the various extra & co-curricular activities during his tenure in the college.

Special dietary requirements, sports uniform and materials:

- To meet the special dietary requirements of sport persons, college provides DA to each and every participant who participates in any intercollegiate sport competitions organized at university or state or national level.
- Sports uniforms, track suits are made available to all those sportspersons who have represented the college at either university level or at interuniversity level tournaments.

- Sports materials are provided to all sports activities like intercollegiate events, intra college level tournaments or any other tournaments organized at different levels.
- Full time Faculty of Physical Education to look after sports activities.
- Qualified trainer in Gymnasium
- Organization of Sports Meet during YCCEFEST every year
- Students participation in Inter-Collegiate tournaments organized by RTM Nagpur University for different sports.
- University color holders
- The college has won many team and individual events at State & National level inter-university events

Facility Available	Usage
Well Secured Sports Ground	Practice for various sports, Matches are also organized during Sports Meet during YCCEFEST
Basketball Court	Practice for basketball tournaments organized by college and university
Swimming Pool	Preparation for participation in Swimming Competitions organized by University, organizing swimming competitions
Well-equipped Gymnasium	Students perform exercise for fitness and well-being
Volleyball Court	Practice for Volleyball tournaments organized by college and university

5.1.11 Does the College have an institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

Career Guidance - As there are a very diverse career options available for the students today, it becomes very important that each student chooses the option most suitable for him/her. There is also a need of formal and informal career guidance by way of interaction with the experts, faculty members, alumni as also through books and magazines.

A lot of career guidance is provided informally by the faculty members/ guides/ teacher guardians to the students. Guest Lectures, Seminars and Workshops are regularly organized on the various topics for the career guidance to the students both at the departmental level and the college level through the T & P Department. Eminent speakers from the industry and

academia are invited to deliver the same. Sometimes the alumni working in the various industries are invited to interact with the students.

The T & P Department also provides one to one counseling to the students on a regular basis. The department also writes articles related to career issues in the departmental magazines of the college. Career guidance magazines like Career 360, Competition Success Review are subscribed in the library for the benefit of the students.

The list of the events organized by the T & P Department is as under:

S N	Date	Activity	Resource Person
1	16/07/2011	Guest Lecture on Opportunities in Logistics Industry for Mechanical Engineers	Mr. Muthukumar, Sr Faculty and Counselor Confederation of Indian Industry (CII), Chennai
2	29/08/2011	Guest Lecture on Facing the HR Interview	Mr. Swapnil Shukla, Manager HR, Wipro Technologies, Pune
3	10/09/ 2011	Seminar on Overseas Education & Preparation for GRE	Mr. Vinayak Kamat, Technical Director GEEBEE, Pune
4	14 /09/2011	Guest Lecture on Career in IT Industry	Mr. PremApte GM HR, Zensar Pune
5	14/10/ 2011	Interaction on Preparing for the Industry	Mr. James Maslamani, Head Academic Interface Programme, Mumbai
6	11/04/2012	Mahindra Igniters Day	Mr. Amol Deshpande Mahindra & Mahindra Ltd.
7	26/06/2012	Guest Lecture on Expectations of Industry	Ms. Rinku Raychaudury Manager TCS
8	10/09/2012	Guest Lecture on Cyber Security	Mr. Rakshit Tandon Cyber Security Consultant, Moradabad
9	12/03/2013	Mahindra Igniters Day	Mr. Shoiab Sadiq Ms. Jaspreet Mehta Mahindra & Mahindra Ltd.
10	10/09/2013	Expectations & Preparation for Campus Interview	Mr. James Maslamani Tata Consultancy Services
11	30./11/2013	Mahindra Auto Quotient Quiz – West Zone Round	Mr. Nirav Panchal, Mahindra & Mahindra Ltd.
12	15/12/2013	Career in Marine Services	Mr. Vivek Ratan, Angloeastern Shipping, Mumbai

13	28/02/2014	How to Face Interview, Orientation Session	Mr. Saurav Roy - Manager, Infocetps Technologies Pvt. Ltd. Nagpur
14	08/03/2014	Faculty Development Programme	Mr. Dipeshkumar Singh Mr. Haider Hussam TCS
15	14/03/2014	CRT Validation Programme	HR Managers from various Industries
16	26-27/03/2014	Mahindra Advance Driving Skills	Mr. Nirav Panchal Mahindra & Mahindra Ltd.
17	08/05/2014	Mahindra Igniters Day	Ms. Arzoo Dala Mahindra & Mahindra Ltd.
18	2-30/6/2014	Campus Recruitment Training	ADCC Infocad, Nagpur
19	14/08/2014	Orientation Session - How to Prepare for Campus Interview	Mr. Prashant Karandikar,
20	17/12/ 2014	Student Dev. Workshop - Role of Trainees in project/customer growth	Mr. Girish Dandige Senior Consultant, Tata Consultancy Services Ltd.
21	17/12/ 2014	Faculty Dev. Workshop - ERP Overview and Project Management	Mr. Girish Dandige Senior Consultant, Tata Consultancy Services Ltd.
22	26/02/2015	Seminar – Indian Air Force on – Joining Indian Air Force & Armed Forces	Group Captain G J Rao Command Education officer and PRO
23	09/04/2015	Orientation Session - How to Prepare for Campus Interview for 2015-16 batch	Mr. Prashant Karandikar Head – Campus Recruitment and Campus Connect, L&T Infotech
24	18/06/2015	Expectations from Mechanical Students in Automobile Industry – Seminar	Mr. Amol Deshpande Manager HR, Mahindra & Mahindra Ltd.

Higher Studies – A good number of the students are interested in pursuing higher studies like M Tech, MBA, MS etc. The college also feels that the bright and studious students should go for higher education especially to the institutes of high repute in India like IITs, IIMs and NITs etc. and top universities abroad.

Separate clubs are formed by the name GATE Club, CAT Club, and GRE Club for providing guidance and support to the students interested in pursuing higher education like M Tech, MBA,MS etc. A large no of the students have enrolled for the same.

The experts in the various areas of higher education and counselors are invited to guide the students. Mock Tests are also conducted in the college to give the practice of the tests to the students.

Books on the related topics are available in the library eg Gate Question Bank, Barron's GRE etc.

Training and Placement - The training and placement is considered as an important central facility and the college has a full-fledged Training & Placement Department with well qualified and experienced, Director – Training & In-charge IIPC, Director Placement, T & P Officer and the required supporting staff. Adequate infrastructure as below is also created for the smooth conduction of the various activities. Required infrastructure for T&P activities such as Independent Office, Interview Rooms, GD Rooms, Facility for the conduction of the online tests and Facility for conducting the interviews in the video conferencing mode etc are available at the institute.

Internship and Industrial Training - Internship and the industrial training during the summer and winter vacations is an important part of the engineering education. The students go for training at large Public Sector Organizations as well as Private Sector Organizations. All the students are encouraged to take training in the industries relevant to their disciplines. Also an opportunity to the entire student about Campus Recruitment Training (CRT) is provided at the institute.

Industry Institute Interaction - Interaction with the Industry is most vital for aligning the engineering education with the needs of the industry. It is that which ensures that the education and training provided to the students is relevant and appropriate for the industry.

Considerable efforts are made to maintain a high degree of Industry institute Interaction. The college is closely associated with professional industrial bodies like Confederation of Indian Industry (CII), Vidarbha Industries Association (VIA), MIDC Industries Association (MIA) etc. Industry persons are invited for guest lectures and workshops organized by the various departments and are also nominated on the board of studies of the college.

The college had invited a delegation from CII for its assessment under the scheme of the Assessment of Technical Institutes for Industry Institute Partnership and college has been accorded accreditation.

Entrepreneurship Cell-

The college has already started an Entrepreneurship Development Cell (EDC) and is organizing Entrepreneurship Awareness Camp (EAC) and many other programmes to promote the spirit of entrepreneurship among the students, in association with organizations like MSME, MITCON, MCED, TIE etc.



Entrepreneurship Awareness Programme

S N	Activity	In collaboration with	Date	Beneficiaries
2014 – 15				
1	Guest lecture on Entrepreneurship as a Career	TiE, Nagpur	16/09/2014	130
2	Entrepreneurship Awareness Drive (EAD) – 2014, a one day workshop	E – Cell, IIT, Kharagpur	26/09/2014	800
3	Guest Lecture on Entrepreneurship: Opportunities and Challenges By Mr. Ashok Kale	Department of Electronics Engineering	24/02/2015	100
4	Guest Lecture on SHIVAJI : THE MANAGEMENT GURU (Managerial Skills of Chhatrapati Shivaji Maharaj) by Prof. Sumant Tekade	Department of Electrical Engineering	18/03/2015	150
2013 – 14				
5	Two days Industrial visit to Suzlon Wind Power Plant, Motha, Chikhaldara, Distt Amravati	Suzlon wind farms Ltd., Pune	21-22/12/2013	35
6	Two Days workshop on Entrepreneurship Awareness	Kherwadi Social Welfare Association, Mumbai	28-29/12/2013	150
7	Motivational Guest Lecture on Entrepreneurship as a career option	TiE, Nagpur	29/10/2013	100

2012 – 13				
8	One day Industrial Motivation Campaign on Entrepreneurship Development	Ministry of Micro, Small and Medium Enterprise Development Institute, Nagpur	11/01/2012	100
2011 – 12				
9	One day Industrial Motivation Campaign on Entrepreneurship Development	Ministry of Micro, Small and Medium Enterprise Development Institute, Nagpur	11/02/2011	150

5.1.12 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus annually for the last four years).

The placement of the students into reputed companies is an indicator of the quality of the education and reputation and relationship of the institute with the industry.

The T & P department maintains regular correspondence and interaction with the industry for the purpose of Training and Placement. Reputed companies have regularly selected our students through Campus Interview.

The details of the placements are provided as under:

Campus Placement (2014-2015)			Campus Placement (2013-2014)		
S N	Name of the Company	Total	S N	Name of the Company	Total
1	Mu Sigma	4	1	Mahindra & Mahindra Ltd.	2
2	Tata Consultancy Services	81	2	Mu Sigma	4
3	Persistent Systems Ltd.	21	3	Infocepts	5
4	Infocepts	4	4	Tata Consultancy Services	75
5	Capgemini (I) Pvt. Ltd.	66	5	Cybage Software Pvt. Ltd.	20
6	L&T Infotech Ltd.	64	6	Capgemini	48
7	Cybage Software Pvt. Ltd.	22	7	Persistent Systems Ltd.	10
8	Fluor Daniel (I) Pvt. Ltd.	7	8	nVIDIA	0
9	HSBC Software - GLT	5	9	L&T Infotech	14
10	Paramatrix Software	3	10	Zensar	13
11	Nice Software	3	11	SmartData Enterprises (I) Pvt. Ltd.	5
12	Xoriant Solutions Pvt. Ltd.	5	12	Alacrity E Commerce Solutions	3
13	Zensar Technologies Ltd.	3	13	Fluor Daniel (I) Pvt. Ltd.	9

14	Ligman Lighting (I) Pvt. Ltd.	8	14	KEC International	5
15	iNautix Technologies Ltd.	62	15	Paramatrix Technologies	1
16	Cryptex Technologies Pvt. Ltd.	3	16	Xpointers Consultancy	1
17	IBM (I) Pvt. Ltd.	2	17	Angloeastern Shipping	8
18	KPIT Technologies Ltd.	10	18	Sunflag Steels Ltd.	3
19	Bristlecone (I) Pvt. Ltd.	1	19	Beha Technologies Ltd.	1
20	Mahindra & Mahindra Ltd.	3	20	Triveni Turbine Ltd.	2
21	Sterlite Technologies Pvt. Ltd.	6	21	Tech Mahindra Ltd.	60
22	Mphasis	2	22	Webonise Lab Pvt. Ltd.	1
23	Hasan Juma Backer, Oman	6	23	GMR Airport Development Ltd.	2
24	Sunflag Iron & Steel Co. Ltd.	2	24	HSBC Global Technology	9
25	Wind World India Pvt. Ltd.	1	25	Esense IT Solutions Pvt. Ltd.	4
26	Yodlee Infotech Pvt. Ltd.	4	26	AMDOCS	12
27	AMDOCS	13	27	Calsoft Labs India Ltd.	2
28	Indian Air Force	1	28	Nice Software Solutions	1
29	Tata Consultancy Services	9	29	Jindal Steel & Power Ltd.	2
30	Esense IT Solutions Pvt. Ltd.	2	30	Kewill Ltd.	1
31	Polaris Financial Technologies	1	31	ZS Associates	1
32	Diffusion Engineers Ltd.	1	32	3DPLM Software Ltd.	1
33	Indus Towers	4	33	Excellon Software	1
34	Saint Gobain	3	34	Syntel (I) Ltd.	6
35	Socotronics	1	35	Infosys	48
36	XL Dynamics (I) Pvt. Ltd.	9	36	TAL Manufacturing Solutions	1
37	Bosch India Ltd.	1	37	Diffusion Engineers Ltd.	1
38	Saama Technologies Pvt. Ltd.	3	38	Mother Sonsumi Infotech & Designs	2
39	Torrent Power Ltd.	1	39	Pristine Switchgear (I) Ltd.	5
40	Tech Mahindra Ltd. (BGS)	14	40	Orange City Water Supply	4
41	HCL Technologies Ltd.	17	41	TVS Motors Ltd., Hossur	3
42	Perrinial Systems	2	42	iNautix Technologies I Pvt. Ltd.	10
43	Mecgale Penumatics Pvt. Ltd.	2	(2013-2014) TOTAL		406
44	Simpleworks	2			
45	iNautix Technologies, Ltd.	35			
46	Morarjee Textiles Ltd.	2			
47	Fujitsu Consulting (India)	7			
(2014-15) TOTAL		528			

Campus Placement (2012-13)			Campus Placement (2011-12)		
S N	Name of the Company	Total	S N	Name of the Company	Total
1	Mahindra & Mahindra , Mumbai	6	1	Mahindra & Mahindra, Mumbai	8
2	Infocepts Tech. Nagpur	5	2	NVIDIA Ltd., Pune	6
3	Wipro Technologies Ltd. Pune	123	3	TCS Ltd., Mumbai	150
4	Mu Sigma	2	4	Wipro Technologies Ltd., Pune	51
5	Persistent Systems Ltd.	9	5	Persistent Systems ,Nagpur	6
6	Capgemini	24	6	Infocepts Technologies Nagpur	4
7	Cybage Software Pvt. Ltd.	10	7	Tech Mahindra Ltd., Pune	21
8	SmartData Enterprises (I) Ltd.	1	8	Zensar Technologies, Pune	2
9	Nice Software Solutions	1	9	Cybage Software, Pune	7
10	KEC International Ltd.	3	10	L&T Infotech Ltd., Mumbai	6
11	Techint India Ltd.	1	11	KPIT Cummins Infosystems Ltd., Pune	1
12	Fluor Daniel (I) Pvt. Ltd.	5	12	Capgemini (I) Ltd., Pune	7
13	GS Laboratories Pvt. Ltd.	2	13	Zep Infratech Ltd., Noida	18
14	Ramkrishna IT Systems	2	14	Hilti (I) Pvt. Ltd., Mumbai	2
15	Angloeastern Shipping (I) Ltd.	4	15	Mahindra Two Wheelers, Pune	3
16	Rank Junction	2	16	L&T Ltd. (ECC), Mumbai	9
17	Idea Cellular Ltd.	1	17	L & T (IES) Ltd., Mumbai	8
18	Bosch India Ltd.	3	18	Lanco Vidharbha Power Co. Wardha	2
19	Mu Sigma (Off campus)	4	19	TVS Motors Ltd., Hossur	4
20	Adani Wilmar Ltd.	4	20	GMR Hyderabad International Airport Ltd.	4
21	Piaggio Vehicles Pvt. Ltd.	4	21	ADP Ltd., Pune	1
22	Bhea Knowledge Technologies	3	22	Bosch Ltd., Nagpur	4
23	Alacrity E-Commerce Solutions	4	23	Fluor Daniel Ltd., Gurgaon	4

24	SVP Mining Tech. Pvt. Ltd.	7	24	Kirloskar Group, Nagpur	2
25	HCL Technologies	1	25	iGate Patni Ltd., Pune	11
26	NTT Data	1	26	Jhonsen Controls (I) Pvt. Ltd.,	3
27	IndiaMart	2	27	Syntel Ltd., Pune	2
28	Marvell Technologies Ltd.	1	28	Wipro Technologies Ltd., Pune	4
29	Artefact	2	29	Diffusion Engineers, Nagpur	1
30	AMDOCS	2	30	Soma Enterprises, Hyderabad	3
31	TechUnion	13	31	Angloeastern Shipping Mgt.td.	5
32	Tech Mahindra Ltd.	14	32	Ambuja Cements, Mumbai	4
(2012-13) TOTAL		266	33	Sunflag Steel Co. Ltd.	1
		34	Uttam Galva Steel, Khopoli	21	
		35	Officebox Software , Nagpur	1	
		36	Godbole Gates Ltd., Nagpur	3	
		37	Cipher Technologies , Nagpur	1	
		38	eZest Solutions Ltd., Pune	5	
		39	Abhijeet Group, Nagpur	9	
		40	Alacriy Ecommerce Solutions Pvt. Ltd., Nagpur	8	
		41	Tal Manufacturing Solutions Ltd., Nagpur	5	
		42	Zuti Engg. Solutions,Hyderabad	2	
		43	AMDOCS, Pune	1	
		44	Excellon Software, Nagpur	4	
		45	Prestine Switchgear, Pune	7	
		46	Jaro Education, Mumbai	1	
		47	Indorama Synthetics Ltd.	2	
		48	AMCL, Butibori, Nagpur	1	
		49	Kratin Software, Nagpur	1	
		50	Capgemini (I) Ltd., Pune	1	
		51	Marvell (I) Pvt. Ltd., Pune	1	
		(2011-12) TOTAL		438	



5.1.13 Does the College have a registered Alumni association? If yes, what are its activities and contributions to the development of the College?

YES. The college has a registered Alumni Association chaired by a senior faculty. He along with members of association coordinates various activities.

To meet and part is the way of the life, but to meet again and again is the hope of the life. As the students complete their education and leave the college to live their career and life, it appears that their relationship with the college is suddenly over. Fortunately it's not meant to be so and it does not need to be so. Actually it's just walking into another beautiful relationship with the college in the capacity of its alumni. Though the first relationship has to end the second one is eternal.

So as to nurture and enjoy this relationship and to continue the tradition of organizing Alumni Meets, we have organized an alumni meet in Nagpur, Pune, Bangalore, Delhi, US, Dubai.

YCCE as an Autonomous college has celebrated Silver Jubilee Year in 2013. A Silver Jubilee Alumni Meet of the 1988 batch "Reunion -1988", the first batch of Yeshwantrao Chavan College of Engineering, Nagpur (YCCE) was organized in the college on 16th March 2013 in association with the Alumni of that batch and YCCE alumni Association. Silver Jubilee Meet will be a regular event hereafter. Other than alumni meet activities like Guest Lectures by renowned alumni, arranging industry visit or training for the students and staff of YCCE are arranged..

Alumni are called in campus in their respective departments to participate in curriculum development workshops, some of the alumni are also the members of Board of Studies.

They play an important role in industry institute interactions and bridging the gap between industry and institute.

The alumni also extend support to the existing students as Mentors under Achievers Club.



Alumni Meet



Alumni Meet

Department Wise List of Distinguished Alumni:

Civil Engineering:			
SN	Name of Alumni	Designation	Employer / Entrepreneur
1	Arghaya Palit	Senior Manager	Oracle ,USA
2	Rajban Ghoshal	Assist. Vice President	Polaris Financial Tech., USA
3	Ajay Joshi	Technical Director	NIC, Delhi
4	D.P. Mase	Managing Director	PT Mase and Associates, Nagpur.
5	Mahesh Dande	Managing Director	JD Infra, Nagpur
6	Sanjay Joshi	Managing Director	JD Infra, Nagpur
7	Anil Sancheti	Managing Director	SMS Infra, Ltd
8	Manish Gajbe	Consulting Director	India at RIB Software AG, Mumbai,
9	Rajkumar Singh	Regional Head	BL Kashyap Construction Ltd, Delhi
10	Nitin Deshmukh	Executive Engineer	PWD, Maharashtra State
Mechanical Engineering			
1	Arun Dhir	Director	Arun Enterprises, Delhi
2	Hemant Adgaonkar	MD	Conjoin Ltd., Nagpur
3	Sushant Sinha	Plant Head	Veena Ind. Pithampur, Indore
4	Ajay Dhawanagle	Managing Director	Star Bus, Nagpur
5	Bhupendra Singh	CEO	Century Cements, Raipur
6	Mahesh Mujumdar	DGM Mechanical	Birla Copper, Dahej, Gujrat
7	Ranjan Pimprikar	Plant Head	Indian Oil Corporation, Mumbai
8	Chinta Srinivasan	Sr. Project Manager	SpecTec Asia Pacific, Singapore
9	Jagdish Lanjewar	Director	Sun Environment Ltd, Nagpur
10	Sandeep Bhadade	Manager	M&M Ltd, Nagpur

Electrical Engineering:			
1	Dr. Hitesh Mathur	Asso. Prof.	BITS, Pilani
2	Kunal Waghmare	Delivery & Practice Mgmt	Bristlecone, San Francisco
3	Mayank Mishra	Manager	ABB, Bhopal
4	Rohit Tikku	Manager	Reliance Industry Ltd.
5	Vivekanand Paney	Manager	Reliance Infrastructure
6	Abha Deshpande	Program Manager	Software LCG Inc.
7	Dipashree Banrjee	Senior Sys.Engineer	IBM
8	Rajan Kinkhede	Pursuing Ph. D.	Covntry University, UK
9	Pravin Palkar	Owner	Palkar Industries
10	Utkarsha Kachare	Executive Engineer	Tata Power Company Ltd
Electronics Engineering:			
1	Kundan Choudhary	Manager	Ashok Leyland
2	Md Imran Khan	Project Engineer	Asian Contractors, UAE
3	Shreyas Mainde	Assistant Manager	Reliance Infrastructure
4	Parag Divekar	Manager - Materials	Larsen & Toubro Ltd.
5	Anshuman Anand	Consultant	Synopsys (I) EDA Software
6	Madhav Junghare	Project Manager PMP	TCS
7	Ajay Kumar Singh	Col	Indian Army
8	Ashish Dixit	Registrar	NMIMS University, Bangalore
9	Sandeep Gulyani	CEO	Wire2Air Ltd.
10	Urmeet Juneja	Vice President	GTL Ltd.
Electronics and Telecommunication Engineering:			
1	Aditya Dhattrak	Software Engineer	Tata Consultancy Services
2	Ajinkya Joshi	Student (MS)	Long Beach California University
3	Kartik Chivakula	Research Scholar	VNIT, Nagpur
4	Vikas Gupta	Research Scholar	IIT Gandhinagar
5	Deepak Singh	Student (M.Tech)	IIT Kharagpur
6	Amogh Deshmukh	Engineer	Air Force, India
7	Aniket Mishra	Software Developer	Mu Sigma
8	Akhil Borkar	Student (MS)	Clemsom university
9	Nitin Satpute	Student (M.Tech)	Bits, Pilani
10	Swati Pendum	Student (MBA)	MBA, Pumba, Pune
Computer Technology:			
1	Y. SudhaRao	General Manager	IBM ,Banglore
2	Saurabh Rungta	Owner	Rungta Group of Institutions, MP
3	Shahir Ahmed	CEO	Location Guru, India
4	Sammer Karwade	Supply Chain Manager	Raymond INC, Grenoble, France

5	Amar Amte	Project Manager	Yahoo
6	Vikram Agrawal	Sr. Engineer	Google
7	Sumit Goswami	Business Advisor	Wipro, Bangalore
8	Nitin Pande	Project Lead	PSL, Nagpur
9	Sumit Basak	Sr. Developer	CISCO Systems
10	Ajay Nayak	Senior Developer	Real Page, Hyderabad
Information Technology:			
1	Atul Nimje	Sr. Software Engg.	Dell, San Fransisco, California.
2	Shyam Rokde	Sr. Software Engg.	Visa, California
3	Shashank Mankar	Manager	Tata Tele Services, Pune
4	Gopal Chandak	Consultant	Principle Globle Services, Pune
5	Puneet Garud	Sr. Software Engg.	TCS, Mumbai
6	Sandeep Pattalwar	Sr. Software Engg.	TCS, Mumbai
7	Vishal Agrawal	Sr. Software Engg.	Wipro Technologies, Singapore
8	Divya Sharma	Sr. Software Developer	Newgen Software Technology Ltd.
9	Hitesh Thakkar	Sr. Software Engg.	Dell Global Analytics
10	Rohit Akhairamka	Business Tech Analyst	Deloitte Consulting
11	Sagar Lonkar	Software Developer	Persistent System Pvt. Ltd
12	Nandita Singhaniya	Team Lead	Hexaware Technology

5.1.14 Does the College have a student grievance redressal cell? Give details of the nature of grievances reported and how they were redressed.

Grievance Committee for Students (Non Academic Matters)		
Name	Category	Designation
Dr. U.P. Waghe	Principal	Chairman
Dr. P.K. Dakhole	Registrar	Member-Secretary
Prof. S.D. Bhole	Dean (Acad. Matters)	Member
Dr. Manish Chawhan	Asso. Professor in ET	Member
Prof. P.M. Meshram	Asso. Professor in Electrical Engg.	Member
Dr. S.G. Mahakalkar	Professor in Mechanical Engg.	Member
Dr. Mrs. R.A. Patil	Professor in Chemistry	Member
Dr. P.B. Bahatkar	Professor in Mathematics	Member

As and when the grievances are registered the committee takes the cognizance and proposes the amicable solution.

5.1.15 Does the College have a cell and mechanism to resolve issues of sexual harassment?

The college has a committee for addressing the issues related to Sexual harassment. The aggrieved party can approach the Head of Institution and file the complaints in writing. The Principal forwards the complaint to Sexual Harassment Redressal Committee. The Committee invites both the aggrieved person as well the accused to the hearing to know and establish the facts. The report of the committee is then submitted to Principal for further action. The Principal initiates the action in consultation with the Legal Advisor.

5.1.16 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

YES.

Anti Ragging Committee is in place which continuously monitors throughout the campus for incidences of ragging. The information including phone numbers of the committee members are displayed at prominent places throughout the campus. There is a senior student representation in Anti Ragging Committee.

During last 4 years no Ragging cases are reported in the campus and hostel to Anti Ragging Committee.

Anti-Ragging Committee		
SN	Name	Designation
1	Dr. Uday P.Waghe, Principal	Principal
2	Dr. R.M. Moharil, Professor	Sr. Professors (Male/ Female)
3	Dr. P.K. Dakhole, Professor	
4	Dr. Mrs. S,V.Rathkantiwar, Professor	
5	Prof. S.D. Bhole, Asso. Professor	
6	Mr. D.M. More	Representatives of the Parents
7	Mr. A.B. Chikale	
8	Mr. Sandeep Meghe	
9	Mr. R.V. Lohe	
10	Ms. Sampada Joshi (VII Sem-ET)	Representatives from Senior batches (Male and Female)
11	Mr. Nilesh Lalwani (VII Sem -EE)	
12	Ms. S.S. Sawant	Representatives from fresh batches (Male and Female)
13	Mr. M.G. Chimurkar	
14	Shri V.J. Bhoye	Station Officer of Local Police Station - MIDC
14	Shri Rakesh Chilkapure	Media Representative
16	Shri. Vivek Naik	NGO Representative

5.1.17 How does the College elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co - curricular activities, research, community orientation, etc. ?

It is always endeavor of the college to solicit cooperation from all stakeholders to ensure overall development of the students with regards to their participation and contribution in curricular activities, co-curricular activities, research activities and extra-curricular activities. Various stakeholders are participating in Statutory & Non-statutory committee of the institute. There is significant involvement of Industry Personal, Alumni, Faculty, and Employers in curriculum development through Board of studies. Regular interaction is made to parent through e-communication and regular Parent – teacher Meet. In view of eliciting the cooperation and support of all stakeholders college and departments organizes various activities like workshops, seminars, expert lectures etc. through student forums.

5.1.18 What special schemes/mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc?

Various activities are organized regularly under University Recognized NSS unit and

“Jagruk” -Social activities committee of the institution

- Blood donation camps
- Nirmalya collection during Ganesh immersion to prevent pollution
- Participation in Kranti Din rally to spread awareness of ill effects of Tobacco on 9th August
- Participation in Samvidhan Day on 26th November.
- Participation in Marathon for peace organized on 30th January.
- Awareness programme on Anti-Ragging and Right-to Education Acts
- UNESCO’s Financial Child Adoption Campaign – Drop-a-Coin
- Eye Donation Awareness Campaign
- Joy-of-Giving week to donate clothes, medicine, stationary to orphans and underprivileged strata of the society
- Awareness programme regarding AIDS
- Program on Women’s Health and well being for Girl Students of the college

Cinephille – Films on Campus Club at YCCE - Besides regular screening of exceptional, non-commercial movies, the club organizes screening of short films and documentaries created by students

KALAA – The Music and Arts Society of YCCE -Through KALAA the students are encouraged towards various art forms.

Student Societies of various Engineering Departments – SOFEE, CTSC, ACES, EESA, MATRIX, SPIRIT and student chapters of professional societies ACM, CSI, IEEE, IE(I), SAE-India

Mega events such as COMPUFEST, ICON, ANTAHEEN, ITECHROOTS, ELECTRICA etc. are organized by these societies

SPANDAN – A National Level Technical Paper Presentation Competition for UG and PG students is organized every year



National Conference Spandan-2014

YCCEFEST – One Week Techno-Cultural Extravaganza - Several technical and cultural activities are organized during this one week festival with a huge participation from the institutions in the central part of India

YCCE became autonomous from the Academic Year 2010-11. To inculcate and nurture technical and soft skills among the students, a weightage of 02 credits has been offered in the autonomy syllabus.

5.1.19 How does the College ensure participation of women in ‘intra’ and ‘inter’ institutional sports competitions and cultural activities? Provides details of sports and cultural activities in which such efforts were made?

As a part annual social gathering ‘YCCEFEST’, the student activity in-charge in association with Department of Physical Education has been organizing sports events in which girl students are every year participating in large numbers. There are almost eight different sport events in which girls students from all the branches can participate. College girl students have been regularly participating in intercollegiate athletics, basketball, badminton, chess, swimming, table tennis, and volleyball tournaments conducted by R.T.M. Nagpur University, Nagpur.

Many a times girls' teams have brought laurels to the college by securing either winners' trophy or runner up trophy in the intercollegiate tournaments in different sports streams organised by R.T.M. Nagpur University Nagpur.

SN	Student Name	Achievement	Organized by
1	Neha Kirti Bodele	1 st runner up, Inter collegiate swimming competition	RTM Nagpur University
2	Yashoda Dapurkar	Oratory speech competition,	Nagpur Institute of Technology
3	Samidha Pathak	First Prize In Inter College Debate Competition	Rotary Club of Nagpur West
4	Samidha Pathak	First Prize In Elocution	Technostorm-14, Govindrao Wanjari College of Engineering, Nagpur
5	Samidha Pathak	Second Prize Debate Competition	Horizon-14, Priyadarshini College of Engineering, Nagpur
6	Samidha Pathak	Winner In Communication Skill For Practical Purpose	Ascent-2014, Umrer College of Engineering
7	Ketaki Hardas	The longest Heena Marathon	Guinness World Record



Purva Tekam Participated in Parade

5.2 Student Progression

5.2.1 Provide details of programme-wise success rate of the College for the last four years. How does the College compare itself with the performance of other autonomous Colleges / universities (if available)

Examination results (Past Four year's branch wise only for Final Year)

S. N.	UG Program	Year	Appeared	Passed	% Passed	First Div.
1	B. E. Electronics Engineering	2014-15	160	157	98.13	122
		2013-14	153	146	95.42	132
		2012-13	145	125	86.20	101
		2011-12	136	125	91.91	101
2	B. E. Civil Engineering	2014-15	155	141	90.97	120
		2013-14	141	129	91.49	104
		2012-13	70	67	95.71	56
		2011-12	73	69	94.52	57
3	B. E. Electronics & Telecom. Engineering	2014-15	158	147	93.04	118
		2013-14	154	143	92.86	121
		2012-13	146	139	95.20	111
		2011-12	137	129	94.16	107
4	B. E. Computer Technology	2014-15	157	143	91.08	117
		2013-14	171	156	91.23	123
		2012-13	145	132	91.03	88
		2011-12	144	132	91.67	114
5	B. E. Information Technology	2014-15	82	75	91.46	58
		2013-14	80	75	93.75	59
		2012-13	74	72	97.29	58
		2011-12	63	57	90.47	41
6	B. E. Mechanical Engineering	2014-15	144	140	97.22	114
		2013-14	160	154	96.25	130
		2012-13	152	140	92.10	120
		2011-12	136	125	91.91	87
7	B. E. Electrical Engineering	2014-15	143	130	90.91	109
		2013-14	121	115	95.04	92
		2012-13	76	69	90.78	49
		2011-12	75	63	84.00	44

S. N.	PG Program	Year	Appeared	Passed	% Passed	First Div.
1	CAD/CAM	2014-15	15	15	100.00	15
		2013-14	20	20	100.00	20
		2012-13	23	23	100.00	22
		2011-12	22	12	54.55	10
2	EE	2014-15	23	23	100.00	23
		2013-14	29	29	100.00	29
		2012-13	30	28	93.33	28
		2011-12	34	31	91.18	31
3	IPS	2014-15	16	14	87.50	14
		2013-14	18	18	100.00	18
		2012-13	21	20	95.24	16
		2011-12	21	12	57.14	12
4	PROD ENGG	2014-15	21	20	95.24	20
		2013-14	17	17	100.00	17
		2012-13	41	34	82.93	34
		2011-12	20	9	45.00	9
5	STRUC ENGG	2014-15	24	24	100.00	24
		2013-14	29	27	93.10	27
		2012-13	26	23	88.46	23
		2011-12	28	26	92.86	25
6	COMM ENGG	2014-15	22	22	100.00	21
		2013-14	20	20	100.00	19
		2012-13	20	18	90.00	17
		2011-12	17	14	82.35	14
7	CSE	2014-15	44	42	95.45	40
		2013-14	14	14	100.00	13
		2012-13	20	20	100.00	19
		2011-12	17	13	76.47	13
8	VLSI	2014-15	42	41	97.62	40
		2013-14	19	19	100.00	19
		2012-13	19	19	100.00	18
		2011-12	18	15	83.33	15
9	ENV	2014-15	7	7	100.00	7
		2013-14	1	1	100.00	1
		2012-13	5	5	100.00	5
10	IT	2014-15	20	20	100.00	20
		2013-14	16	16	100.00	16

Final Year Examination Results–Last 4 Years (UG & PG Programme)

S. N.	Year	Appeared	Passed	% Passed	First Div.	Second Div
1.	2014-15	999	933	93.39	758	175
2.	2013-14	980	918	93.67	761	157
3.	2012-13	808	744	92.07	583	161
4.	2011-12	764	700	91.62	551	149

S. N.	Year	Appeared	Passed	% Passed	First Div.	Second Div
1.	2014-15	234	228	97.44	224	4
2.	2013-14	183	181	98.91	179	2
3.	2012-13	205	190	92.68	182	8
4.	2011-12	177	132	74.58	129	3

5.2.2 Providing the percentage of students progressing to higher education or employment highlight the observed trends.

Civil Engineering				
Student Progression	Percentage against Enrolled			
	2011-12	2012-13	2013-14	2014-15
UG to PG	16.44	28.16	33.8	27.81
PG to Ph.D.	-	-	-	-
Ph.D. to Post-Doctoral	-	-	-	-
Employed	24.66	14.08	16.19	13.90
• Campus Selection				
• Off Campus Selection	30.14	42.25	28.87	35.76
Entrepreneurs/Self Employment	-	-	-	-
Electrical Engineering				
UG to PG	11.84	16.04	7.61	2
PG to Ph.D.	-	-	-	5.55
Ph.D. to Post-Doctoral	-	-	-	-
Employed	46.05	14.81	27.61	32.68
• Campus Selection				
• Off Campus Selection	9.21	23.45	36.19	5.23
Entrepreneurs/Self Employment	-	1.23	-	0.65
Mechanical Engineering				
UG to PG	6.89	10.19	11.24	14.56
PG to Ph.D.	-	-	-	-
Ph.D. to Post-Doctoral	-	-	-	-

Employed				
• Campus Selection	42.1	36.8	41.9	44.7
• Off Campus Selection	-	8.33	5.2	5.2
Entrepreneurs/Self Employment	-	1.4	-	-
Electronics Engineering				
UG to PG	--	--	9.58	0.684
PG to Ph.D.	4.65	4.65	--	--
Ph.D. to Post-Doctoral	--	--	--	--
Employed				
• Campus Selection	55.8	30.57	54.79	65.13
• Off Campus Selection	111.03	14.64	10.95	5.26
Entrepreneurs/Self Employment	--	--	--	--
Electronics & Telecommunication Engineering				
UG to PG	23	7.17	2.63	2.68
PG to Ph.D.	5.55	5.55	-	-
Ph.D. to Post-Doctoral	-	-	-	-
Employed				
• Campus selection	60.26	37.33	44.07	58.38
• Off Campus selection	-	2	0.65	5.36
Entrepreneurs/Self Employment	-	-	-	-
Computer Technology				
UG to PG	2.58	3.33	2.01	4.17
PG to Ph.D.	11.11	-	-	-
Ph.D. to Post-Doctoral	-	-	-	-
Employed				
• Campus Selection	76	36	55	69
• Off Campus Selection	-	-	-	4.17
Entrepreneurs/Self Employment	0.65	0.66	1.38	0.69
Information Technology				
UG to PG	4.41	-	1.25	1.29
PG to Ph.D.	-	-	-	-
Ph.D. to Post-Doctoral	-	-	-	-
Employed				
• Campus Selection	39.70	18.91	47.5	57.14
• Off Campus Selection	17.64	14.86	7.5	-
Entrepreneurs/Self Employment	-	-	-	1.29

5.2.3 What is the Programme-wise completion rate/dropout rate within the time span as stipulated by the College/University?

Name of Program (UG)	Completion Rate (%)			
	11-12	12-13	13-14	14-15
B.E. Civil Engineering	90.35	88.28	86	74.18
B.E. Mechanical Engineering	71.45	70.62	79.15	77.54
B.E. Electrical Engineering	55.17	60.5	92.5	80.39
B.E. Electronics Engineering	78.84	80.91	89.46	85.65
B.E. Electronics & Telecomm. Engineering	87.62	83.31	87.47	90.44
B.E. Computer Technology	73.63	66.44	81.06	85.61
B.E. Information Technology	71.88	71.96	80.81	82.75

Name of Program (PG)	Completion Rate (%)			
	11-12	12-13	13-14	14-15
M. Tech. Structural Engineering	100	100	100	100
M. Tech. Environmental Engineering	----	83.33	----	100
M. Tech. Production Engineering	52.35	100	88.4	100
M. Tech. CAD/CAM	100	96.15	96.75	100
M. Tech. Integrated Power Systems	67.85	58.33	93.85	77.78
M. Tech. Electronics Engineering	65.80	95.83	96.42	94.1
M. Tech. VLSI Design-I	94.44	95.45	100	100
M. Tech. VLSI Design-II	--	--	--	95.95
M. Tech. Communication Engineering	83.33	95	100	95
M. Tech. Computer Science Engineering	72.22	82.30	83.33	85.84
M. Tech. Information Technology	-----	-----	90	100

5.2.4 What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.

Year	Number of Students Cleared Examinations						
	GATE	GRE/ GMAT	CAT	Defense Services	Civil Services	CSIR_ NET	Any Other
2014-15	101	11	7	-	-	-	-
2013-14	75	16	5	-	-		1
2012-13	60	16	5	1	-	-	2
2011-12	34	13	5	1	-	-	1

5.2.5 Provide details regarding the number of Ph.D/D.Sc./D.Litt. theses submitted, accepted, resubmitted and rejected in the last four years.

Year	Degree Awarded	Theses Submitted	Theses Resubmitted	Theses Rejected
2014-15	18	12	Nil	Nil
2013-14	03	20	Nil	Nil
2012-13	05	06	02	Nil
2011-12	Nil	06	Nil	Nil

5.3 Student Participation and Activities

5.3.1 List the range of sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.

LIST OF EVENTS (2014-15)

S N	Name of the event	Dates	No. of participants	Remarks
1	Blood Donation	12/7/14	27	With Medical University Sawagi Meghe
2	Movie show – Last benchers	12/7/14	250	
3	Blood Donation	17/7/14	26	With Ayush Blood bank
4	Transforming India through Science and Technology	29/7/14	4 Faculty + 50 students	Dr. APJ Abdul Kalam's programme
5	Fresh Face – Talent Hunt Show	1/8/14	200 +	Times of India
7	Interaction with Management	22/8/14	200 +	
8	TEDx YCCE	23/8/14	50	TEDx US
9	RTI (Right to Information)	9-10/9/14	600	IIT Bombay
10	Seminar on the Key to a Successful Higher Education in US	25/09/14	100	Jess Walter – Vice Council (US Counsellate) Himanshu Dev – Education Advisor (US India education foundation) Michelle Morezello – US Counsellate
11	Rehabilitated Kashmir	20-16/10/2014	534 clothes	Flood victims of Jammu and Kashmir
12	Swatchata Abhiyan at SoS Ground	12/11/2014		YCCE Staff
13	Workshop on Forest Networking	9-10/01/2015	205	IT Networks
14	Tyro Kick	10/1/2015	50 teams	Sports Team
15	YASH 15	15–22/02/15	1000	Techno Cultural Sports Fest
16	Model United Nations – An International Conf.	30–31/05/2015	500 Delegates	An educational simulation and academic competition

LIST OF EVENTS (2013-14)

S N	Name of Events	Dates	Number of participants	Details
1	Talent Hunt	14/08/2013	149	Organized by YCCE & Times of India, Runner up–Jeenefore Nikulang and first prize – Rutuja
2	Anti Smoking Campaign	29 -30/08/2013		SMOKE – Support the Movement to Kill Cancer, by IIT Bombay & YCCE Guest Lecture by – Dr. Smita Gupte
3	Kaala Inauguration and workshops	7-, 8 , 14- – 15/09/2013		Dance :-Priyanshu Thakur (India’s Got Talent, Dance Maharashtra Dance Fame) Music:-Varad and Rohan (Music producers)/Neil Ingale (Indian Idol fame) Art n craft:-Sameer Hejib Acting:-Sameer Hejib Photography:-Sanjib Ganguly/ Rupnarayan Verma
5	I vote for better India Campaign	20/09/2013	1800 registration for voter ID	The initiative being led by volunteer for a better India – a pan-india social initiative.
6	WWorkshop on EthicalHacking by Ankit Fadia	25/10/2013.		to explore and exhibit the skills of the students in computer networks and ethical hacking.
7	CM Meet	15/12/2013	12 students + 5 faculties	Hon. CM interacted with youth at SFS College, Seminary Hills
8	Blood Donation Camp	20/12/2013	132	Organized in association with Ayush Blood Bank
9	Flash Mob	29/12/2013	300	At Futala Lake, Nagpur
10	WWorkshop on Sixth sense robotics	4-5/01/2014		to introduce students to sixth sense botz and vision controlled motion
11	YASH - 14	29/01/ to 01/02/2014	1000	Techno Cultural Sports Fest

YCCE Fest YASH-15 Program Calendar

Schedule		Cultural	Technical	Sports
15/2/15	Sunday	Traditional day		Futsal
16/2/15	Monday	Doty	Internet Quest	Chess
		T-shirt painting	Layout Planning	Carrom
17/2/15	Tuesday	Dramatica	Model Marvels	Futsal
		Razzmatazz	T-tycoon	
		Quiz Contest	Lathe Backon	
		Click-o-Flix		
18/2/15	Wednesday	Symphonica	Junkyard Wars	Box cricket
		Beat Street	C-casino	
		Debate		
		Auto Cad		
		Raga Rockers	Fifa Manager	Badminton
		Roadies		
		Click-o-Flix		
19/2/15	Thursday	Freshers	Assembly Tycoon	Tyrokick
		War of DJ	Code Master	
			Dalal Street	
			Smack Down	
20/2/15	Friday	Razzmatazz final	Trusted	Basketball
		War of dj final round	Counter Strike	
		Quiz Contest	NFS	Table Tennis
		Friends for Ever	Contraption	
21/2/15	Saturday	Fashionista	Robo-Race	
			Robo-War	
22/2/15	Sunday	Cultural Day		

YCCE Fest YASH-14 Program Calendar

Date	Time	Cultural Events	Technical Events	Sports Events
18/01/2014				Futsal
25/01/2014	9:00 AM	Opening of Yash	Model Marvels + Internet Quest	Volley Ball
	10:00AM	Doty (Cultural)	Junkyard Wars + Dalal Street	Table Tennis
26/01/2014	9:00 AM	Flag Hoisting		
	10:00 AM	Traditional day		
27/01/2014	9:00 AM	Roadies	T-Tycoon	Box Cricket
	10:00 AM	Rhythm Rockers	Assembly Tycoon	Carrom
	12:00 PM	Friend's Forever	Code Masters	
	2:00 PM	Dramatica		
	6:00 PM	Special Performance		
28/01/2014	10:00 AM	Symphonica	Truss Ted	Tyro Kick
	12:00 PM	Razzmatazz	Lathe Beckon	Chess
	12:00 AM	Roadies (Task)	Paint Ball	Badminton
	12:00 AM	T-shirt Painting		
	2:00 PM	Face Painting	C-Casino	
29/01/2014	10:00 AM	Freshers' Day		
	1:00 PM	War of Dj's		
	4:00 PM	Fresher's Day		
30/01/2014	10:00 AM	Fashion	Robowars	
	4:00 PM	Beat Streets	Roborace	
			NFS	
			Counterstrike	
31/01/2014	10:00 AM	Finals	Contraption + Dalal (final)	
	5:00 PM	Farewell + Cultural Night+ War of Dj's	Layout-Planning	
			Fifa Manager	
			Smack Down	
01/01/2014	5:00 PM	Mega Event		
25/12/2013				Cricket



YCCE FEST YASH-15

5.3.2 Provide details of the previous four years regarding the achievements of students in co-curricular, extracurricular activities and cultural activities at different levels: University / State / Zonal / National / International, etc.



TCS Best Project Award

Civil Engineering			
2014-15			
SN	Name of Student	Award/Recognition Details	Awarding Organization
1	Amit Tambe Rutuja Dharkar Suchana Telrandhe Harshal Parbat	Second Prize In Model Competition	Pratikruti-15 Organized By Y.C.C.E
2	Vishal Sangani Vijesh Agrawal Sagar Jasuja	First Prize In Poster Competition	PRATIKRUTI-15 ,A National Level Project Competition Organized By Y.C.C.E
3	Samidha Pathak	First Prize In Inter College Debate Competition	Rotary Club Of Nagpur West
4	Samidha Pathak	First Prize In Power Point Presentation Competition	Techwaves -14 ,Rajiv Gandhi College of Engineering
5	Samidha Pathak	Best Speaker In Inter College Debate Competition	Rotary Club Of Nagpur West
6	Samidha Pathak	First Prize In Techvillage	Unnati-15, A National Conference Of Students On Explorations In Engineering And Technology
7	Samidha Pathak	First Prize In Elocution	Technostorm-14, Govindrao Wanjarin College Of Engineering

8	Samidha Pathak	First Rank	Pace, Y.C.C.E
9	Samidha Pathak	Winner In Communication Skill For Practical Purpose	Ascent-2014, Umrer College Of Engineering
10	Samidha Pathak	Second Prize Debate Competition	Horizon-14, Priyadarshini College Of Engineering, Nagpur
11	Tulshidas Jibhakate Aashay patil Amit tiwari Praful bhoge	Best Paper Award	SPANDAN-15 ,A National Conference On Advances In Engineering, Technology And Applied Sciences” Organized By Y.C.C.E
12	Shubham Akhatkar Akshay Kale Nishtha Kapse	Best Paper Award	SPANDA-15
2013-14			
1	Gunjan Kirpal Apeksha Yenprediwar Ashwini Dahate Trushali Puri Pankaj dhawale	Best Paper Award	SPANDAN-14 , A National Conference on Advances in Engineering, Technology and Applied Sciences” organized by Y.C.C.E
2	Abhijit K. Khandalkar Mukesh H. Kokarde Abhijeet A. Shende Ahart J. Pazare Dipak S. Nardelwar Swapnil P. Pathe	Best Paper Award	SPANDAN-14, A National Conference on Advances in Engineering, Technology and Applied Sciences” organized by Y.C.C.E
2012-13			
1	Sanjiv Harinkhede	Best Paper Award	SPANDAN-13, A National Conference on Advances in Engg, Technology and Applied Sciences, YCCE
Electrical Engineering			
2014-15			
1	Ms. Sayali Pagrut & Team, etc	TCS Best Project Award	TCS
2	Mrunali Kalbut	TCS Best Student Award	TCS

2013-14			
1	Mr. Amit Agrawal	TCS Best Student Award	TCS
2012-13			
1	Ms. Aditi Choudhari	TCS Best Student Award	TCS
2011-12			
1	Mr. Amit Chopade, Aditya Wadode, Vipinkumar Meshram	1 st Prize for Best Paper Award	YCCE, Nagpur
2	Mohd. Mushtaque, Ravi Ranjan Kumar, Mukesh Tiwari	1 st Prize for Best Paper Award	SOFEE & Dept. of Electrical Engineering, YCCE
3	Bablu Kumar, Rasikraj Mude, Ravi Singh, Sumit Kumar Singh, Tushar Lilhare	1 st Prize for Best Paper Award	SOFEE & Dept. of Electrical Engineering, YCCE
Electronics Engineering			
2014-15			
1	Rohit Gawali Yash Bongirwar Pratik Dhoble Anshuman Satpathy Nishikant Das	1 st Prize , National Level Paper Presentation	YCCE
2013-14			
1	Bodele Neha Kirti	1 st Runner up, Inter Collegiate Swimming Competition	RTMNU, Nagpur
2	Khandre Pooja	Paper presentation, National level Techfest	Anjuman College of Engineering
3	Sowmya Singh Srishti Chaturvedi Meshram Utkarsha	1 st Prize, National level Paper Presentation	YCCE
4	DapurkarYashoda	Oratory Speech Competition,	NIT, Nagpur
5	DapurkarYashoda	1st Prize ,Paper Presentation, National level Techfest	Anjuman College, Nagpur
6	KasbekarAkshay	1st Prize ,Paper Presentation	J.K. Shankar National level Conference, Mumbai
7	Dalal Palash Mankar Rohit LandgeTushar Bawane Pranav	1st Prize, IEEE Paper Presentation, Pursuit-14	IEEE

8	Paresh Kriplani	1st Prize, Paper Presentation, SPANDAN 2014,	YCCE
2012-13			
1	Aniket Kalode	1st Prize Group Discussion and Personal Interview (Techno Campus)	YCCE, 'ICON-13.0'
2	Ram Karade	1st Prize, Lan Gaming	YCCE, 'ICON-13.0'
3	Yashoda Dapurkar	2 nd Prize, Paper Presentation	National Conference by Swami Vivekanand Seva Samiti
4	Pooja Pawar Pooja Kohad Dhanashree Nikhare Dhanashree Deo Rucha Thombre	1st Prize, Paper Presentation	YCCE (SPANDAN-13)
2011-12			
1	Aman Agrwal	3 rd Prize Electrox Paper Presentation	GWCOET, Nagpur
2	Roham Benodekar	3 rd Prize CON 12.0 Invenio	YCCE
3	Mansi Raje	2 nd Prize , Student Awareness Contest	VIT, Pune
4	Spana Thote Sayali Bhisare	1st Prize Spandan-2012 Paper Presentation	YCCE
Electronics and Telecommunication Engineering			
11-12	1	Radhika Lambe Rupali Pawar Ashish Bodhale	Best Paper Award Spandan – 2012 organized by YCCE
	2	Mohammed Sadique Khaja Sheikh	Best Paper Award BLITZKRIEG-2012, DMIETR, Wardha
	3	Pankaj Bhope Akanksha Parad Ashitmuni Wakade Madhura Patil	Best Paper Award Spandan – 2012 YCCE
12-13	1	Kalpit Bhawalkar Anuja Paliwal Ashwini Dongre Prajakta Kadu Jaspreet Kukreja	Best Paper Award Spandan – 2013 YCCE
	2	Gulsaba Khan Neha Nirwan Shruti Paranjpe	Best Paper Award Spandan – 2013 YCCE

	3	Chetan Tekade Gaurav Narnaware Nitin Kolte Sameer Chakole	Best Poster Award	Spandan – 2013 YCCE
	4	Harshal Tayade Jayendra Kailaskar Parag Yelore Parikshit Deshmukh	Best Paper Award	SPARSH-2013 DMIETR Wardha
	5	Nupur Tupkar Sakshi Hiwanj Nikhil Kadam Siddhesh Gaiki	Best Project Award	National Level Techfest Wheel Spin-13 Bapurao Deshmukh College of Engg, Wardha
	6	Apeksha Kulkarni Ashwini Yewale Shruti Jaiswal Nupur Tupkar	Best Project Award	National Level Tech fest XPLORE 4.0 RGCCER Nagpur
	7	Nupur Tupkar Sakshi Hiwanj Nikhil Kadam	Best Project Award	PRATIKRUTI YCCE, Nagpur
13-14	1	Parate Anjali Parad Apurva Untawale Jasmin Shinde Anurag	Best Paper Award	Spandan – 2014 YCCE
	2	Parate Anjali Parad Apurva Untawale Jasmin Shinde Anurag	Best Paper Award	TECHNICO ENTREVISTA-2K14 St. Vincent Palotti College of Engg, Nagpur
	3	Gunnale Rujuta Meshram Samiksha Waghmare Snehal Hinge Snehal	Best Paper Award	Spandan – 2014 YCCE
	4	Chakate Anup Khandare Darshan Badole Sandesh Lutade Swapnil	Best Paper Award	Spandan – 2014 YCCE
	5	Gunnale Rujuta Meshram Samiksha Waghmare Snehal Hinge Snehal	Best Project Award 2 nd prize	PRATIKRUTI, YCCE, Nagpur
	6	V. Kunnawar Gale Rajkiran Joshi Suraj Ambhorkar Utkarsha	Best Project Award 3 rd prize	PRATIKRUTI, YCCE, Nagpur

Computer Technology				
14 -15	1	Neha Deshpande	Pratikruti (National Level Project Competition)	YCCE, Nagpur
	2	Pooja Malviya		
	3	Rashmi Fusate		
	4	S. Dyavartiwar		
	1	Ragini Fulzele	Pratikruti (Project Competition)	YCCE, Nagpur,
13-14	1	Mohit Tare	Project Competition	TCS
	2	Jayant Sable		
	3	Devendra Paratwar		
	4	Indrajit Gohokar		
	1	Ashwini Bhake	Pratikruti -14 National level Project Competition	YCCE, Nagpur
	2	Mayuri Joshi		
	3	Revati Deshmukh		
	4	Kalashree Hemke		
12-13	1	Pranjal S. Dani	Inovaco-13.0	YCCE, Nagpur
	2	Mansi S. Dipani		
	3	Mandeep Singh		
	4	Rachana Deolikar		
	1	Chetan R. Chopade	International Conference ICCSIT – 2012	
	2	Ritesh J. Chetwani		
	3	Gaurav Timkhede		
	4	Dhananjay S Sathe		
	1	R. Shambhuwani	SPANDAN 2K13, Paper Presentation	YCCE, Nagpur
	2	Abhisehk Gaurav		
	3	S. Bhattacharyya		
	4	Rahul Trivedy		
	1	Ketaki Hardas	The Longest Heena Marathon	Guinness World Record
	1	Kriti Bansod	Projectivity, Project Competition	YCCE, Nagpur
	2	Harshil Bhatnagar		
	3	Yashi P. Verma		
4	Divya R. Naidu			
	1	Piyushkumar Hire	TECHNOWAVE 2012	G.H. R. C.E, Nagpur
	2	Aditya Gajbhiye		

11-12	1	Kaushik Talukdar	SPANDAN	Y.C.C.E., Nagpur
	2	D. Choudhury		
	3	Abhinav Borgohain		
	4	R. Rajkhowa		
	1	Akshay A. Gore	COMPUFEST 2012 SOFEE 2012	Y.C.C.E., Nagpur
	2	Nikhil Barote		
	3	Deepak D. Jadhav		
	4	Aditya S. Nahata		
	5	Ankit S. Purohit		
	1	Prateeksingh Bais	COMPUFEST 2012 SPANDAN	Y.C.C.E., Nagpur
	2	Tanikanti Aditya		
	3	Pankaj Meshram		
4	K. Choudhury			

Information Technology				
14-15	1	Ms Afreen Shaikh	Best Proj. Award	YCCE, Nagpur
	2	Mr.Mayur Khante	Best Paper Award (PG)	Anjuman College of Engineering, Nagpur
	3	Ms.Dolly Jeswani	Best Paper Award (PG)	Institute of Research and Journal, Pune
	4	Rucha Wankhade	Best Proj. Prize	PCOE, Nagpur
13-14	1	Mr.Pranjal Patil	Best Paper Award	Spandan-2014, YCCE
	2	Aswini Bhivgade	Code frenzy & Guess Me Face Me(1 st & 2 nd prize)	PRAJWALAN-25-26/2/2014 Govt. College of Engg. Amravati
12-13	1	Mr. Suraj Porte	Best Paper Award	Spandan-2013
	2	Ms.Swati Shelar	Best Paper Award	JIT, Yavatmal
	3	Ms.Kumari Monu	Best Paper Award	National Conference, on Recent Trends in IT, JIT, Yavatmal
	4	Ms. Aswini Bhivgade	Code frenzy C/C++", 1 st prize	Govt College of Engg. Amravati 15-16 Feb 2013
	5	Ms. Leena Kharche	Best Paper Award	ICON-13, YCCE
11-12	1	Rohal Chava	Basketball, Athletica, NASSIF, 1 st Runner up	YCCE, RTMNU

5.3.3 How often does the College collect feedback from students for improving the support services? How is the feedback used?

The college has established feedback system of collecting feedback from all the students. The online feedback is collected from the students twice in a semester.

Students Feedback:

Students' feedback in the standard formats for teachers, departments and central facilities is collected twice in a semester by the Dean (Academic Matters) office.

Broadly the assessment parameters are i) Adequacy of laboratory facilities (space, number of setups etc), ii) Availability of computing and internet facilities, iii) Infrastructure (furniture, black board, illumination, ceiling fans, flooring etc) iv) hygienic atmosphere (cleanliness in class room/ sanitation/ surroundings) v) mechanism and approach to deal with students'/ parents grievances vi) students guidance and mentoring facilities, vii) Use of modern instruments/facilities to provide hands on experience.

To keep a track of functioning of central facilities- library, central computer centre, maintenance department, administrative sections, admission cell, examinations cell etc a feedback is sought from students on the basis of various parameters.

1. Central Library: Adequacy of titles and volumes, e- learning resources, Ease in issuing of books, Suitability of library timing
2. Approach towards promoting co-curricular and extra co-curricular activities
3. College Canteen Facility: Food quality
4. Centralized Computer Center: Qualitative and quantitative adequacy
5. Language lab
6. Administrative office: Ease of Approachability

The analysis of these feedbacks is done essentially to know strengths, weaknesses as well as functioning of support services and central facilities. The possible corrective measures are taken either at the departmental level or at Institute level to overcome weaknesses. The follow up actions are monitored to make out improvements in the functioning of these support services.

A compliance report regarding the same is submitted to Principal by Dean (Academic Matters)

Students' Exit Feedback: Students' exit feedback is sought from final year students in the standard format.

5.3.4 Does the College have a mechanism to seek and use data and feedback from its graduates and employers, to improve the growth and development of the College?

YES.

The college has well-established mechanism for seeking periodic feedback from the employers as well as graduates.

The feedback from employers is to get industry expectations which will help the institute to plan necessary training on current trends for regular the students so that they can develop their professional skills. This feedback also helps to update our curriculum to fill up the gaps.

Feedback from alumni and parents of the students is collected during Alumni meet and during parent teachers' meet. The objective of these meets is to make teachers; regular students interact with the alumni and get in-site of requirements for further improvement of the department/institute.

Every department organizes Parent –Teacher meets once in a semester.

5.3.5 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the major publications/ materials brought out by the students during the previous academic session.

The college provide financial assistance for publication of magazines. All the engineering departments publish magazine with the active involvement of students and faculty.

List of Magazines published by departments is:

Department	Magazine	Wall Magazine	News Letter
ME	INTIGRA		
CE	SKYLINE		
EL	GNISTA		
EE	Aadyam	Drishti	Electronewsline
ETC	Esprit		
CT	DHYASS		Technosavvy
IT	ZEAL	DISHA	IT NEWS TRACK
College/Sanstha	Meghwani		

5.3.6 Does the College have a Student Council or any similar body? Give details on its constitution, major activities and funding.

All the engineering departments are having student forums as well as Professional Society Chapters. The constitution and major activities are as indicated. These forums organize various technical, social activities using funds collected through sponsorships and financial support provided by the institution.

Dept.	Name of Forum	Constitution	Major Activities	Funding
CE	Association of Civil Technocrats (ACT)	Faculty In-charge	Compufest, Electrica, ITRoots, Antheen, Techfest Magazine, Newsletter Code Design Quizzes, Debates Blood Donation Model Making Guest Lecturer Social activity Industrial Site Visit	Sponsorship and College contribution
ME	MATRIX	President		
EL	Society of Future Electrical Engineers (SOFEE)	Vice President		
EE	Electronics Engineering Students Association	Secretary		
CT	Computer Technology Student Council (CTSC)	Joint-Secretary		
ETC	Association of Communication Engg. Students (ACES)	Treasurer		
IT	SPIRIT			

5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.

The statutory academic bodies, Board of studies and academic council are constituted as per the guidelines in XIth plan of UGC for autonomous colleges and Maharashtra University Act 1994.

Non academic statutory bodies are Board of Management and Finance Committee. There is no provision in the statute for representation of students on either statutory academic bodies or statutory non academic bodies

However, students do have representations on some of the non statutory administrative bodies.

Library Committee	
Chairman	Dr. U.P.Waghe
Teacher Members Nominated by Principal	Dr. S. V. Ambekar Dr. S. S. Chaudhari Prof. B. Y. Bagade Dr. Kavita Singh Dr. Ujjwala Gawande Dr. S.V. Rathkantiwar Dr. P. L. Zade
PG Students' Representative	Akshay A. Katolkar, Suresh Venkatesan
UG Students' Representative	Aishwarya Deshpande, Akshat Marathe
Member Secretary	Smt. S. R. Wankhede, Librarian

Library Committee: Students from UG and PG are the members of 'Library Committee'. The Committee members offer their suggestions related to improvement of functionality of library, requirements related to books, journal, e-resources etc.

Anti Ragging Committee		
SN	Name	Designation
1	Dr. Uday P.Waghe, Principal	Principal
2	Dr. R.M. Moharil, Professor	Sr. Professors (Male/ Female)
3	Dr. P.K. Dakhole, Professor	
4	Dr. Mrs. S,V.Rathkantiwar, Professor	
5	Prof. S.D. Bhole, Asso. Professor	
6	Mr. D.M. More	Representatives of the Parents
7	Mr. A.B. Chikale	
8	Mr. Sandeep Meghe	
9	Mr. R.V. Lohe	
10	Ms. Sampada Joshi (VII Sem-ET)	Representatives from Senior batches (Male and Female)
11	Mr. Nilesh Lalwani (VII Sem -EE)	
12	Ms. S.S. Sawant	Representatives from fresh batches (Male and Female)
13	Mr. M.G. Chimurkar	
14	Shri V.J. Bhoje	Station Officer of Local Police Station - MIDC
15	Shri Rakesh Chilkapure	Media Representative -Tarun Bharat Daily
16	Shri. Vivek Naik	NGO Representative

Criterion VI: Governance, Leadership and Management

6.1 Institutional Vision and Leadership

Yeshwantrao Chavan College of Engineering (YCCE) is established in 1984 by Nagar Yuwak Shikshan Sanstha, Nagpur. It is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. YCCE is renowned for engineering education and research. For over 31 years, it has successfully nurtured young engineering professionals, becoming a sought after destination for students aspiring to higher technical education and placement in the competitive software and core industry.

The college is guided by Academic Advisory Board consisting of eminent academicians from prestigious technical institutes in India and USA. The college is having well qualified and experienced senior faculty members. YCCE has become the first private engineering college to acquire "Autonomous Status" in Central India. The institute is implementing autonomy in progressive manner from academic session 2010-11. The students admitted to B.E. and M.Tech. Courses from academic session 2010-11 are under autonomy.

We aim to make our students to become engineers, possessing outstanding quality to become leaders in their profession.

6.1.1 State the vision and mission of the College.

College Vision

“To become benchmark technical institution where learning is a joy, education is for the tomorrow, research & development is pace setting and everyone is committed to delivering competent human resource for prosperity and well-being of industry, profession and society”.

College Mission

"To prepare competent need based human resource and responsible citizens for engineering profession through dissemination of knowledge and development of technical skills and create an environment that fosters the involvement and commitment of all stakeholders for continuous improvement in performance and quality".

6.1.2 Does the mission statement define the College's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, College's traditions and value orientations, vision for the future, etc.?

The college has been started by Nagar Yuwak Shikshan Sanstha, Atray Layout, Near Pratap Nagar, Nagpur-440022 in the year 1984. The Chairman of the Nagar Yuwak Shikshan Sanstha Hon'ble Shri. Dattaji R. Meghe has a

burning desire to spread the fragrance of education amongst people belonging to all strata of community, particularly amongst the rural poor. The Trust is involved in community services for over four decades. College has earned the reputation of being one of the most sought after colleges in Central India for the quality technical education it imparts to the students for producing excellent Technical and (managerial) administrative manpower with sense of belongingness to the society in which they live. These are the distinctive characteristics/features of the college run by Nagar Yuwak Shikshan Sanstha with regards to the students to whom it intends to groom.

Collective efforts taken by the entire concerned enable the college to address the needs of the society, college's traditions, value orientation and its vision for future. In fact, in the mission statements specified earlier these objectives are reflected to a larger extent.

For providing quality education to the students, college seeks continuous guidance and inputs from academic peers from IITs, NITs and research organizations in the field of Engineering and Technology and industry experts from various industrial establishments. This type of interaction could be possible as experts from these organization are co-opted on college's academic bodies (under autonomous status) viz 'Board of Studies and Academic Council'.

In view of the current education scenario Nationally / Globally, and Govt. Policies, for Quantitative and Qualitative expansion of Higher Technical Education in the Country, the college is keen to play a significant role on providing excellence in education by adhering to the international benchmark and become a role model for other for institutions, Hence, an National Academic Advisory Board is constituted, to guide the college towards excellence in education.

National Academic Advisory Board	International Academic Advisory Board
Members	Members
Prof. R. Natarajan	Dr. Vijay K. Dhir
Prof. D.P. Agrawal	Prof. V. Balakrishnan
Shri. Suresh Mhatre	Dr. Raghu Raghavendra
Prof. N.R.Shetty	Ms. Barbara Masi
Dr. N.V. Vasani	Dr. Promod Vora
Dr. S.C. Sahasrabudhe	Prof. Kanti Prasad
Prof. K.B. Reddy	Dr. Devdas Shetty
Dr. M.P. Ravindra	Mr. Jeffery Goss
Dr. Sadanand Gokhale	Dr. Avichal Kapur
Dr. Avichal Kapur	

National Academic Advisory Board



PROF. R. NATARAJAN
Former Chairman,
AICTE, New Delhi. Former
Director, IIT, Madras



PROF. D.P. AGRAWAL
Chairman,
UPSC, Associate Dean of
Engineering for Research,
New Delhi



SHRI SURESH MHATRE
Vice President ,TCS Ltd.
Mumbai,



PROF. N.R. SHETTY
Vice President IFEES



DR. N.V. VASANI
Director General, Nirma
University of Science & Tech.
Ahmedabad



DR. S.C. SAHASRABUDHE
Director,
DAIICT, Gandhinagar



PROF. K.B. REDDY
Former Vice Chancellor,
VTU, Belgaum



DR. M.P. RAVINDRA
Former Advisor,
Education and Research,
Infosys & VC, Manipal IU,
Malaysia



DR. SADANAND GOKHALE
Ex-Director,
VNIT, Nagpur. Ex-Professor, IIT, Madras



DR. AVICHAL KAPUR
Member Secretary

In order to expand horizon and to bring global perspective, for Institutions under Nagar Yuwak Shikshan Sanstha, we have constituted an International Academic Advisory Board consisting of renowned Educationists from top class US Universities / Institutions to advice and guide NYSS in achieving excellence in our Engineering institutions in particular and other institutions in general.

Interactive participation with eminent Academician & Industrialist enables the faculty to keep abreast with the latest technological developments and industrial trends which facilitates to update the curricula by making necessary modifications as per the suggestions received. Also it helps in developing, well equipped laboratories with advanced technology set-ups, in the field of engineering and technology.

Interactions are the motivations & gives direction for submitting Research proposals to various sponsoring / funding agencies. As an outcome YCCE has established sponsored projects from industries ‘SIEMENS center of excellence’. It enables fruitful Industry institute interaction and frequent visits to various institutes, industrial visit which foster the relationship between the institute and the industry.

Professional values are inculcated among the students by installation of different departmental students’ societies or chapters and organizing various programmes, technical events under the banner of these students’ chapters. (IEEE, CSI, ASME etc)

International Academic Advisory Board



DR. VIJAY K. DHIR
Dean
University of California, Los Angeles

PROF. V. BALAKRISHNAN
Associate Dean of Engineering for Research,
Purdue University

DR. RAGHU RAGHAVENDRA
Senior Associate Dean for Strategic Initiatives,
University of South California (USC)

MS. BARBARA MASI
Director of Education Innovation and Assessment,
Massachusetts Institute of Technology (MIT)



DR. PROMOD VORA
Dean
Northern Illinois University, Illinois

PROF. KANTI PRASAD
Professor, Director Microelectronics / VLSI,
UMASS, LOWELL, Lowell, Massachusetts

DR. DEVDAS SHETTY
Dean of Research University of Hartford

JEFFERY GOSS
Asst. Dean, Global Outreach & Extended Ed
Arizona State University



DR. AVICHAL KAPUR
Member Secretary

6.1.3 How is the leadership involved in

- ensuring the organization's management system development, implementation and continuous improvement
- interaction with stakeholders
- reinforcing culture of excellence
- identifying needs and championing organizational development (OD)?

A. Ensuring the organizations management system development, implementation and continuous improvement

In view of achieving proper and effective coordination with various day to day academic activities, administrative function, planning and development and to disseminate decision making powers, college authorities have created different Functional Head Post's namely:

- Registrar
- Controller of Examinations
- Dean Academics Matters
- Dean Planning & Development
- Director R and D
- Director Training
- Director Placements
- Training & Placement Officer
- Coordinator First Year
- In-charge Students Activities
- In-charge Alumni Cell

Principal alongwith all HoD's and these Functional Heads sphere-head day-to-day academic administration and related functions.

- Also, under autonomous status, college has constituted statutory academic bodies like 'Board of Studies' and 'Academic Council' to formulate and subsequently implement academic policies of the college throughout the year. Along with faculty members, these academic bodies have representations from academic peers and industry personnel / experts.
- All the admissions in various UG and PG Programmes offered by the college are done through admission cell headed by Chairman, Admissions. Also he supervises and coordinates NRI admissions to

different UG courses offered by the college. He also imparts proper counseling and guidance to the admitted students.

- All the academic activities on the campus are coordinated and steered by academic cell headed by Dean Academics Matters.
- Entire examination related activities under autonomous status are planned, coordinated and executed by examination cell and headed by Controller of Examinations (CoE) and assisted by Deputy Controller of Examinations.
- In order to coordinate various ongoing research activities in various departments, Research and Development Cell has been constituted which is headed by Director, (R&D).
- ‘Training and Placement Department’ enjoys paramount importance being instrumental in planning and executing students’ campus placements process. It is headed by Director, Training and Director, Placement. They are assisted by Training & Placement officer.
- Professor In-Charge Industry Institute Interaction Cell fosters Institute’s relationship with industries by organizing various activities involving industry personnel.
- Professor In-Charge Alumni Cell acts as liaison officer between institute and the alumni association / alumni and coordinates various alumni activities.
- All the maintenance activities on the college campus with regards to Civil and Electrical maintenance of the infrastructure and the campus including Hostels, are planned, monitored and executed by Maintenance Department.
- Heads of the Departments of all teaching Departments, Registrar, Administrative officer, Accounts Officer, Hostel Wardens help Principal in their routine administration work.
- Local Management Committee comprising of management trustees, teaching and non teaching staff members’ representative and Principal is responsible for planning and implementing various academic and administrative policies of the college. Principal is member secretary of Local Management Committee.

This is how various academic and administrative set-up functions in perfect co-ordination to and disseminate power to different levels.

B. Interaction with Stakeholders

Leadership is involved in following ways to interact with the stakeholders of the institute:

- **With students' fraternity:** As per the guidelines of affiliating University, every academic institute is required to constitute Students' Representative Council (SRC). The SRC is responsible for organizing and conducting various students' activities, like co-curricular and extra-curricular activities on the campus.

SRC is expected to constantly interact with the authorities with regards to finalization of budget for these activities. SRC forms various committees with students' co-ordinators to organize various programmes throughout the year. The students' coordinators of different committees work under the guidance of Professor-In-Charge, Student Activities.

- **Parents:** Parents interact with college authorities through parents-teachers meets to give suggestions and to put up their problems, including the problems faced by their wards. These meets are normally conducted once in a semester. Even otherwise, parents can directly meet the authorities for appropriate redressal of their problems or grievances.
- **Alumni:** College authorities interact with alumni of the college through alumni meets. These are conducted at two levels i) at departmental level and ii) at college level. Both these meets are conducted once in a year. In fact, interaction of college authorities with alumni is one of the best possible instruments available to get the feedback from alumni with regards to i) expectations from industry with regards to course curricula taught, ii) additional training to be imparted to widen the scope of learning, iii) industry expectations from the students of the college, and other additional inputs.

Cumulative effect of all these facilitates to enhance the employability of the students.

Alumni are involved in various academic activities like i) Framing/updating of curriculum through BOS ii) Guest lectures by Alumni iii) Providing industry training to students etc. Also there is a facility for interaction of students with outstanding Alumni in person as and when alumni visit the institute.

- **Faculty:** College authorities have a continuous interaction with faculty either directly or indirectly through various academic platforms viz: (i) HOD's meetings, (ii) Board of Studies meetings, (iii) Academic Council meetings, etc. Faculty can also interact and

represent through the teachers' representatives on Local Management Committee (LMC) for the redressal of their grievances, if any. Most of the activities in all the departments right from curriculum updation to purchase of lab equipments etc are based on participative management involving faculty members from concerned departments.

- **Non Teaching Staff:** Non Teaching staff also interact directly with the authorities for varied purposes.
- **Academic Peers:** Every year on the college campus, conferences, seminars, workshops, various technical events are organized periodically both at departmental level as well as at college level.

Academic Peers from different academic institutes of national and international repute are invited as (i) guest of honor, (ii) key note speakers, (iii) to deliver guest lectures, and (iv) above all to seek their guidance through proactive participation. Thus, college authorities get an opportunity to have close interactions with them. The vital academic inputs and valuable suggestions received from these luminaries help the faculty to restructure and modify the course curricula to make these more comprehensive. This exercise facilitates not only enrichment of knowledge domain of both faculty as well as the students but will also enhance the employability of our students.

- **Industry:** Industry-Institute Interaction Cell organizes various programmes involving and inviting industry personnel to seek their guidance with regards to (i) to know recent industry trends, (ii) latest innovations / modifications implemented in various industry trades, (iii) technical manpower requirements, (iv) specific technical trainings to be imparted to students, (v) and most importantly, the expectations of industry from both college faculty as well as students. Organizing these events make it possible for both college authorities as well as industry personnel to come together and exchange their views inclusive of above mentioned points.

Such type of interactions of authorities with different stakeholders leads to establish a very sound academic system in the college and enhance the very spirit of academic autonomy conferred.

C. Reinforcing culture of Excellence

- The Autonomous status granted by UGC, NBA accreditations of the programmes, innovative practices in teaching learning, Research and Development attitude amongst staff as well as students, excellent track record of students' placement, award of patents, number of books written by faculty members, establishment of SIEMENS Center of Excellence.

- All the admissions in UG and PG programmes are made only on the basis of merit list of state government through centralized admission process. Thus, only academically deserving students can get admissions in this college.
- College has been taking sustained efforts in providing best infrastructural facilities, highly qualified, competent faculty and hence best education alongwith excellent teaching-learning environment to the students on the campus. College also tries hard to imbibe in them social, ethical, cultural values of highest order to make them socially responsible, competent engineers, technocrats and managers.
- College authorities take all possible efforts to strengthen faculty base by continued motivation and encouragement to enrich their academic attainments and to achieve all round development. Faculty members are continuously encouraged to I) take up research projects, II) approach various funding agencies like AICTE, UGC, DST, to receive grants for projects, III) publish their research work in the reputed journals, conferences, IV) Participate and organize Training programs, FDPs, STTPs and workshops, V) to patent their research findings, etc. College also extends financial support to sustain these activities.
- College always encourages the students for their active participation in various co-curricular and extra-curricular activities like seminars, workshops, conferences, technical events, etc. and sports competitions so as to have their all-round development. To enhance students' participation in these events college, waives off or condones their classroom, 'tutorial and practical classes' attendance during period of participation in these events as per the academic policy of the college. Participating students are entitled for incentive marks and grades for such type of participations as per the existing norms of affiliating university. These incentive marks or grades add up to and thus enhance CGPA of participating students by excelling in the fields other than academics. Academic toppers in examinations, sports-persons, and those who have excelled in various cultural events are not only felicitated but duly rewarded by college authorities by giving them incentive cash awards and certificates of appreciation.
- College also tries to provide some of the best recruiters in the fields of Engineering and Technology for campus recruitment of the students.

Cumulative effect of implementation of all these measures by college more than speaks of its quest for excellence.

D. Identifying needs and Championing Organizational Development (OD)

- In any academic organization progress and development can only be achieved if its four pillars, namely, management, faculty, non teaching staff and students offer their constructive contributions which are complementary to each other.
- College has already identified its needs, sets its goal, vision and mission which lead to organizational development.
- All HoD's in consultation with faculty members regularly identify the needs for department's development in particular and overall college development in general. Functional Heads also continuously make efforts for improvement in specific areas assigned to them. All the suggestions for development are put up before the Governing Body which takes the appropriate decision on organizational development. Organizational development at YCCE is a continuous process. As a result of which college has reached top position in technical education in this region.
- With a modest beginning with an intake of 180 in three branches in 1984 has steadily progressed and established its credentials in these 31 years as one of the top ranking and most sought after technical institutes in Maharashtra as well as in central and western India. Today, college offers UG programmes in seven disciplines, PG programmes in ten different engineering streams, with more than 5000 students on the college campus, separate blocks for each of the teaching departments, separate administrative block, fully equipped laboratories with state of art facilities, hostels, very spacious rich library itself speaks of the development carried out and progress achieved by the institute. Such type of development achieved both quantitatively as well as qualitatively by a self financed institute, sustaining only on tuition fees collected, progress made and noteworthy success achieved in the academics and in placements has set a benchmark for other institutes in this region.

6.1.4 Were any of the senior leadership positions of the College vacant for more than a year? If so, indicate the reasons.

None of the senior leadership position of college remained vacant for more than a year.

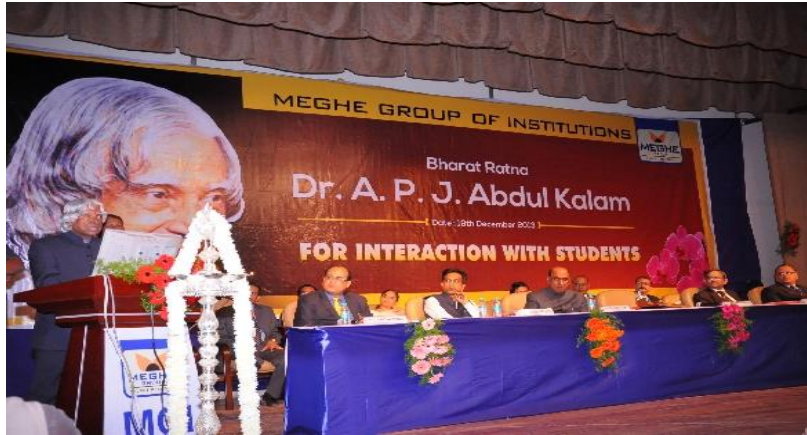
6.1.5 Does the College ensure that all positions in its various statutory bodies are filled and conduct of meetings at the stipulated intervals?

YES, college strives hard and ensures that all positions in its various statutory bodies are filled in accordance with the ordinances framed. College also ensures the Periodic and Timely meeting of these statutory bodies as per the calendar prepared.

6.1.6 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.

College authorities always encourage for participative management in the functioning of the college. As per the guidelines of UGC for autonomous Colleges given in XI Plan guidelines of UGC and Maharashtra University Act, 1994, College has constituted various statutory bodies like Board of Management, Academic Council, Board of Studies and Finance Committee. Non statutory bodies which were constituted are Staff Selection Committee, Purchase Committee, Building Committee, Examination Committee, Grievances Redressal Committee, Redressal Cell for the grievances received under sexual harassments of Girls students and ladies staff on the campus etc. In addition to these committees many sub committees are formed to strengthen the administrative and Academic work. Committees are also formed for special tasks as and when required.

Some of these statutory and non statutory bodies have representations from Management, Faculty, Non Teaching Staff, Alumni, Students, Industry persons, academic peers from reputed academic and research organizations, researchers, Government organizations as per the existing norms of regulatory authorities. Meeting of all these bodies are held as per the norms prescribed all through the year. The agenda of these meeting is / are circulated through the notification issued well in advance so as to make it convenient for the concerned members to attend the said meeting and come prepared on each agenda and contribute for better decision making on each agenda. Their esteemed opinions and suggestions are sought with regards to various points mentioned in the agenda to be discussed in the meeting. Minutes of the meeting(s) are prepared and circulated to concerned members.



Interaction Session with Dr. A. P.J. Abdul Kalam



Treasurer MLA Shri. Sameer Meghe Addressing Staff



Members of Management Present during Meghotsava

Board of Management	
Recommended Composition of BOM	BOM Members
Chairman	Shri. Dattaji Meghe, Chairman Chairman-Nagar Yuvak Shikshan Sanstha
Members nominated by the registered society / trust	Shri. Sagarji Meghe, (Secretary, Nagar Yuvak Shikshan Sanstha) Shri. Sameerji Meghe, (Treasurer, Nagar Yuvak Shikshan Sanstha) Dr. Avichal Kapur Prof. N.J. Rao, IISc. Bangalore Dr. I.K. Bhat, Director, MNIT, Jaipur Shri. H. O. Thakare, Executive Director (Tech.), NYSS
Nominee of UGC	Dr. Mrs. Anula Maurya, Principal, Kalindi College, New Delhi.
Technical expert nominated by Management for Autonomous working	Dr. S. C. Sahasrabudhe, Director, Dhirubhai Ambai ICT, Gandhi Nagar, Gujarat
Nominee of the AICTE	Nomination awaited (Ex-officio)
Industrialist / technologist / Educationist from the region nominated by concerned regional committee as nominee of the AICTE	Nomination awaited
Nominee of the affiliating university	Dr. Satish R. Wate, Director, NEERI, Wardha Road, Nagpur.
Nominee of the state government	Shri G.R. Thakare, Joint Director, Technical Education, Regional Office, Nagpur (Ex-officio)
Industrialist / technologist / Educationist from the region nominated by the state government	Nomination awaited
Principal of the institute (Ex-Officio)	Dr. Uday P. Waghe, Member Secretary
Two faculty members nominated from regular staff of the institute. (1 Prof. +1 Asso. Prof.)	Dr. A.V. Patil, Professor, Department of Civil Engg. Dr. R.A. Patil, Professor, Department of Chemistry

Academics Council

Academics Council	
Category	Members
The Principal as Chairman	Dr. U.P. Waghe, Principal
Nominee of VC	Dr. Ravi Kshirsagar, Dean, Faculty of Engg and Tech., RTM Nagpur University
Nominee of VC	Dr. M.S. Kadu, Professor and Head, Civil Engg, RCOEM, Ramdeo Tekdi, Katol Rd, Nagpur
Nominee of VC	Dr. S.D. Dawande, Professor, Laxminarayan Institute of Technology, Nagpur
4 outside experts from Industry, Commerce Law, Education, Medicine, Engg. etc, to be nominated by the Governing Body	Prof. Dr. N.C. Siva Prakash, Professor, IISc, Bangalore Mr. Prashant Karandikar, Head - Strategic Resourcing Group L&T Infotech Ltd., Mumbai Mr. Sameer Bendre, Chief People Officer Persistent Systems Ltd., Nagpur Mr. Ashish Khole, TAL Manufacturing Solutions MIHAN SEZ, Nagpur
All HoDs	Dr. Sudhir V. Ambekar Dr. Sharad S. Chaudhary Prof. Bhushan Y. Bagde Dr. Mrs. S. V. Rathkantiwar Dr. Prasanna L. Zade Dr. Mrs. Kavita R. Singh Dr. Ms. Ujwalla H. Gawande Dr. Mrs. Manjusha P. Gandhi Dr. Mrs. S. A. Fadnavis Dr. Mrs. Jyoti V. Miskin
4 teachers of the college representing different categories of teaching staff by rotation on the basis of seniority of service in the college.	Dr. P.K. Dakhole Dr. P.T. Karule Dr. J.R. Ghulghule Dr. A.V. Patil
Sp. Invitee	Prof. Aniket P. Munshi
1 faculty member nominated by the Principal (Member Secretary)	Prof. S.D. Bhole, Dean (Academic Matters)

Board of studies for respective departments

Board of Studied in Civil Engineering		
Name of Member	Category	Designation
Dr.S.V. Ambekar	Head of the Department	Chairman
Dr. A.L. Dandge	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Er. R.A.Sahu	Representative from industry/corporate sector/allied area relating to placement.	Member
Dr. H.S.Patil Professor , SVNIT, Surat	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. O.R.Jaiswal Associate Professor, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. A D Ghare	Expert nominated by the vice-chancellor	Member
Ms Veena Ganvir	Postgraduate meritorious alumnus nominated by the Principal	Member

Board of Studied in Mechanical Engineering		
Name of Member	Category	Designation
Dr. S.S. Chaudhari	Head of the Department	Chairman
Mr. A.P. Edlabadkar	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Mr. D.D. Deshmukh	Representative from industry/corporate sector/allied area relating to placement.	Member
Dr. D.V. Bhope RGCOE, Chandrapur	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. P.M. Padole VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. V. H. Tatvawadi, Principal, DBACER	Expert nominated by the vice-chancellor	Member
Dr. Sheetal Chiddarwar	Postgraduate meritorious alumnus nominated by the Principal	Member

Board of Studied in Electrical Engineering		
Name of Member	Category	Designation
Mr. B. Y. Bagde	Head of the Department	Chairman
Dr. S. G. Kadwane	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Mr. J. K. Wadhavan (Industry)	Representative from industry/corporate sector/allied area relating to placement.	Member
Dr. B.S.Umre VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. M. A. Chaudhari VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. V.T. Barhate RCOEM, Nagpur	Expert nominated by the vice-chancellor	Member
Mr. Altaf Badar	Postgraduate meritorious alumnus nominated by the Principal	Member

Board of Studied in Electronics Engineering		
Name of Member	Category	Designation
Dr. Mrs. S.V. Rathkantiwar	Head of the Department	Chairman
Ms. P.P. Zode	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Dr. A. G. Keskar, Professor, VNIT	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. S.B. Dhok Professor, VNIT	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. S S. Limaye	Expert nominated by the vice-chancellor	Member
Mr. Amar Akre, CEO, CEO, SAP Control Systems,	Representative from industry/corporate sector/allied area relating to placement.	Member
Ms. Abhilasha Tiwari	Postgraduate meritorious alumnus nominated by the Principal	Member

Board of Studies in Electronics and Telecommunication		
Name of Member	Category	Designation
Dr. P. L. Zade	Head of the Department	Chairman
Prof. A.D. Belsare	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Dr. K. D. Kulat, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. A. S. Gandhi, VNIT, Nagpr	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. R. S.Pande, Principal, RCOEM	Expert nominated by the vice-chancellor	Member
Mr. Unmesh Oke, MD, Automation Pvt. Ltd., Nagpur	Representative from industry/ corporate sector/allied area relating to placement.	Member
Mr. Rahul Batra	Post Graduate Alumni	Member

Board of Studies in Computer Technology		
Name of Member	Category	Designation
Dr. Kavita R Singh	Head of the Department	Chairman
Dr. Mueksh M Raghuwanshi	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Dr. N.V. Thakur, Prof. Dept. of CSE, Shri. Ram Meghe College of Enginnering and Management Badnera, Amravati	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. P.S. Deshpande, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. U. A. Deshpande, VNIT, Nagpur	Expert nominated by the vice-chancellor	Member
Mr. James Maslamani TCS, Mumbai	Representative from industry/ corporate sector/allied area relating to placement	Member
Prof. Monal Torney HOD, Dept. of CT Govt. Polytechnic, Bramhapuri, Dist. Chandrapur	Postgraduate meritorious alumnus nominated by the Principal	Member
Prof. Sagar Badhiye		Member

Board of Studies in Information Technology		
Name of Member	Category	Designation
Dr. U. H. Gawande	Head of the department	Chairman
Mr. S. W. Shende	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Dr. O.G. Kakde Professor, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. S. R. Sathe Professor, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. Anjali Mahajan	Expert nominated by the vice-chancellor	Member
Mr. Avinash Moharil CEO Techior Solutions Pvt. Ltd., Nagpur	Representative from industry/ corporate sector/ allied area relating to placement	Member

Finance Committee

Finance Committee		
Name	Category	Designation
Dr. U.P.Waghe Principal	Principal	Chairman
Mrs. Padmaja Ballam, CA	One person to be nominated by The Governing Body of the college for a period of two years	Member
Dr. Anant M. Pande, Director (R&D)	One senior teacher of the college to be nominated in rotation by the principal for two years	Member

Non Statutory Boards are:

Examination Committee

Examination Committee		
Name	Category	Designation
Dr. U.P.Waghe	Principal	Chairman
Dr. P.T.Karule	Controller of Examination	Member Secretary
Dr. P. K.Dakhole.	Registrar	Member
Prof. S. D. Bhole	Dean (Acad. Matters) & Evaluation expert nominated by the principal	Member
Dr. J.R. Ghulghule	Ten year teaching experience, nominated by rotation according to seniority	Member
Dr. R.M. Moharil	Ten year teaching experience, nominated by rotation according to seniority	Member
Dr. K.K. Bhoyar	Ten year teaching experience, nominated by rotation according to seniority	Member

Students' grievances redressal committee

Grievances Redressal Committee		
Name	Department	Designation
Dr. K.K. Bhoyar	Information Technology	Chairman
Prof. A.V. Gokhale	Electronics Engg	Member
Mrs. G.M. Dhopavkar	Computer Technology	Member

Committee to discuss unfair means cares etc.

Unfair Means Investigation Committee / Disciplinary Action		
Name	Department	Designation
Dr. R.M. Moharil	Electrical Engg.	Chairman
Mrs. R.A. Fadnavis	Information Technology	Member
Dr. S.D. Kshirsagar	Mechanical Engg.	Member

6.1.7 Give details of the academic and administrative leadership provided by the University to the College?

The RTM Nagpur University has nominated members on the statutory bodies like BoM, AC and BoS. The nominees in various bodies in their meetings give the inputs as per the norms which help the institution in strengthening various processes and bringing out reforms.

Affiliating University plays a vital role in providing both academic and administrative leadership to any college affiliated to it, right from appointment of Principal of the college and faculty members.

1. Affiliating University constitutes a panel of experts to select and supervise the selection process and subsequently approves the appointment of Principal.
2. Selection panel constituted by the college for the selection of regular faculty members in various streams comprises of experts nominated by the affiliating university.
3. After receiving the approval for increase in intake, starting new programmes etc. from both AICTE and DTE Govt. of Maharashtra, affiliated college has to seek the permission from affiliating University to implement it.
4. Even though college has been conferred with 'Academic Autonomy' still institute has to follow the rules and regulations and guidelines framed by affiliating university from time to time.
5. Academic Council of the college frames the directions, rules and regulations in such a manner that these would not violate existing University rules and regulations.
6. The format of the Grade card to be issued to the students is approved by Controller of Examinations of affiliating University.
7. College has to seek the permission from Board of College University & Development for approved place of research to register the students for PhD and carry out doctoral research in the department for obtaining PhD degree. This permission enables the researchers to pursue their 'Doctoral Research' in the approved department of college.

6.1.8 How does the College groom the leadership at various levels?

In order to disseminate academic and administrative functioning powers, besides Heads of the Departments, posts of Functional Heads-Deans have been created to look after the various functional cells.

The Head of the Department, Deans and other Functional Heads have given full autonomy to explore and monitor the various activities under their jurisdiction. They have been given specific authorities which are coupled with

relative responsibilities and sense of accountability. The responsibility matrix is prepared for each Functional Heads. The Principal reviews targets given to various Functional Heads, guides and motivates them to groom their leaderships.

Besides these, to organize as well as to supervise various technical and non-technical events on the college campus from time to time, Faculty members have been assigned the responsibilities as In-charges for the smooth conduction of these events. Dissemination of academic and administration functioning powers facilitates to groom the leadership among the faculty members.

Also, apart from the existence of Students' Representatives Council (SRC), every department constitutes its own students' chapter to conduct and monitor various co-curricular and extra-curricular activities in the department. Organization and smooth conduction of these events at departmental as well as college level provides an opportunity to the students' fraternity to groom themselves as future leaders to lead the society.

Every department nominates one of the faculty members as Departmental Placement Coordinator to co-ordinate placement related activities of his/her department with 'Training and Placement Department' of college at central level. This Departmental Placement coordinator is assisted by a team of students mostly from third year from that particular department. This team at time provides vital inputs with regards to the companies to be invited for placement drive to the central Training and Placement Department.

One basic principle followed by the Management Council and Principal is to delegate authority to HoD, Registrar, Finance Officer, Functional Heads, and Students' Council etc with clearly defined objectives and results to be achieved. This delegation of authority has resulted in development of leadership at all levels.

6.1.9 Has the College evolved any strategy for knowledge management? If yes, give details.

Knowledge management comprises of a range of strategies and practices used in an organization to identify, create, represent, distribute and enable adoption of insights and experiences. Knowledge management efforts typically focus on achieving organizational objectives such as improved performance, competitive advantage, innovation, the sharing of lessons learned, integration and continuous improvement of organization with increased use of computer, specific adaptations of technologies such as knowledge bases, expert systems, knowledge repositories, group decision support systems, intranets and computer supported co-operative work have become part and parcel of knowledge management efforts.

Competent faculty inherited with very good work culture and environment is most critical resources for successful knowledge creation, dissemination and application. Cognitive, social and organizational learning processes are essential to the success of knowledge management strategy. Also, measurement benchmarking and incentives are essential to accelerate the learning process and to drive cultural change.

For a technical institute like ours it is perceived that knowledge management system should be techno-centric with a focus on technology. Ideally this will enhance knowledge sharing and creation.

It is the endeavour of the college to establish a proper knowledge management strategy:

It involves actively managing knowledge wherein individuals strive to explicitly encode their knowledge into a shared knowledge repository such as database as well as retrieving knowledge they need that other individual have provided to repository

Other management knowledge strategies are i) to maintain expert directories ii) best practice transfer iii) competence management (systemic evaluation and planning of competences of individual organization members) iv) knowledge repositories (database, handbooks in library, technical and scientific magazines etc v) Inter project knowledge transfer vi) knowledge mapping (a map of knowledge repositories within the college accessible to all stakeholders)

1) To built up knowledge management system (Moodle based departmental websites)

In pursuit of these, college and its constituent departments have started taking quite a few efforts to build up knowledge management system and its assets which are as under:

Moodle based departmental website for knowledge sharing through e-resources like, presentations, study material and online submissions of assignments, practical etc. The website addresses are as given below:

<http://www.ee.ycce.in>, <http://www.et.ycce.in>, <http://www.ce.ycce.in>,
<http://www.me.ycce.in>, <http://www.el.ycce.in>, <http://www.it.ycce.in>,
<http://www.ct.ycce.in>,

2) Development of Knowledge Bank (Data Bank) at centralized level:

One of the assessment parameters for placements during placement drive by various recruiters is the performance in the aptitude test. Various Departments / Training and Placement Department every year conducts mock aptitude tests for the students which has been proved to be immensely beneficial for students to score good number of marks in the aptitude tests conducted by various recruiting companies. These tests are so designed that

every year students get different set of questions of identical difficulty level from the inbuilt large question data bank.

3) Arrangement of Virtual lectures and study material:

Faculty members and students can have direct access to study materials from NPTEL, DTEL, IEEE and you tube videos of lectures delivered by IIT Professors, technical lectures etc. College has IEEE digital library subscription to promote research.

College has made available the facilities of online access to e-journals like Springer, ASCE, and McGraw Hills Elsevier etc.

Currently a course on Signals and Systems is conducted through NMEICT under MHRD project through IIT, Mumbai.

4) Details of Holdings in the library which are part of knowledge Management System are as under:

Details on the library holdings are		Total No.
a) Print	Books (Engineering and other)	87723
	Back volumes	3422
b) Non Print (Microfiche, AV)	VODs', DVDs', VCDs', CDs'	1202
c) Electronic	E-books (Mandatory)	2088
	E-books (Springer and Wiley)	9765
	E-Journals	2952
d) Special collection	Text books (Engineering)	84329
	Reference books & standards	8847
	Patents	Nil

5) Management Information System (MIS):

In the recent past state of the art Management Information System (MIS) is installed in the college and is being commissioned progressively. MIS is an important tool that caters the requirements of different independent administrative as well as academic processes within the college, creation, storage, and retrieval of data related to the students enrolled in the college and entire examination system. Thus, MIS facilitates enrichment of the existing knowledge management system further.

Different Modules available under MIS are Administration, Academic, Examination, Admission, Payroll, Establishment, Event Management, Fees Collection, Scholarship etc.

6.1.10 How are the following values reflected in various functions of the College?

- Contributing to national development
- Fostering global competencies among students
- Inculcating a value system among students
- Promoting use of technology
- Quest for excellence

This college owes to produce skilled and competent engineering graduates having an understanding of social and ethical values with a pure dream of national development and making India global leader in knowledge domain.

Contributing to national development:

In line with the vision statement of the college:

1. The college runs demand driven curriculum to produce graduates to accept National challenges.
2. Research activities of AICTE, DST, etc., are carried out in the thrust areas of national interest.
3. Conduct of workshops/FDP under NMEICT for teachers in the region.
4. Consultancy and testing in various departments serve the purpose of providing Department expertise for national development.
5. Participation and organization of national level activities such as conferences, Seminars, workshops as deemed appropriate of national thrust are organized.

Fostering global competencies among students.

Every year, students succeed with good ranks in competitive exams of GRE, TOEFL. Alumni of the college help the present students to provide needful inputs to improve on global competencies. College has entered in an agreement with many overseas universities for academic tie-up for exchange and training programmes to both faculty as well as students. In this context college has signed MOUs with quite a few foreign universities.

The college organizes international conferences in collaboration with Foreign Universities wherein resource person from these Universities delivers key note speeches and also interact with the students which gives opportunities to the students to know the latest development in the respective fields. In addition to this, a Visiting Professor Scheme substantiates the exposure of development of technology to the students through visits of these experts to the institution for interaction with students and faculty. Also every

department organizes Guest Lectures / Workshops for the students to prepare them for competitive examinations like GRE, TOEFL, GMAT etc..

As a special drive to expose the students to overseas technological advancement tour of students to Singapore was conducted.

College authorities always encourage the students to participate in such academic training programme which facilitates them to have global exposure while learning.

Many of our alumni have carved out their nitch in different fields outside India. Some of them are pursuing their higher studies in the reputed overseas academic institutes, some of them are having overseas assignments whereas quite a few of them have acquired citizenship of overseas nations as they have permanent overseas work assignments. In view of utilizing their expertise and seeking their guidance for our students, college has established alumni chapter.

Presence of large number of alumni across the globe more than proves college credentials in fostering global competencies among its students.

Some of the below listed distinguished alumni of the college from its very first batch to recently passed out batches will certainly substantiate the efforts taken by the institute to inculcate the spirit of i) contribution to national development and ii) quest for excellence so as to make them competent not only nationally but globally as well to face successfully steep career challenges.

S. N	Name	Batch	Branch	Designation & Organization
1	Sumit Shandilya	2010	ME	Dy Manager/Sub Section Head – Supplier Up gradation, Quality Assurance
2	Ajay Chava	1994	ME	Associate Vice President – Oracle Practice at HCL America
3	Vaibhav Gomkale	1993	ME	VP – SAP Practice Head at L&T Infotech
4	Nandan Warnekar	2001	EE	Managing Director at Enable IT Solutions Pvt. Ltd
5	Rajiv Sehgal	1997	EE	Head of Regional Operations CSSC – APAC and Japan Nokia Siemens Networks, Gurgaon
6	Rohit Naik	2010	CE	Head – Delivery Solutions at Apple Chemie India Pvt. Ltd. Mumbai,
7	Saneer Bendre	1990	EE	Chief People Officer at Persistent Systems Ltd.
8	Sarang Kulkarni	1993	EE	Automation Design Manager at Tetra Pak Global Projects Pune Area, India

9	Pawan Kinger	2002	CT	Director, Vulnerability Research at Trend Micro / CISSP Ottawa, Canada Area
10	Rajiban Ghoshal	1999	CE	Assistant Vice President at Polaris Financial Technology Ltd.
11	Manish Agarwal	1993	CT	VP, Business Head (Power Transmission Products & Solutions) Sterlite Technologies Ltd.
12	Prasenjit Pal	1988	EE	Addl. General Manager NTPC Ltd.
13	Shweta Yadav	1988	ETC	Project Engineer at SILVERTECH ME FZCO United Arab Emirates
14	Shweta Kulkarni – Tabeck	2004	CT	Head Of Consumer Research for India, Indonesia, Thailand for R&D at L’Oreal India Mumbai, Maharashtra, India
15	Gaurav Kumar Kakkar	1995	CT	Vice President- Senior Technical Manager in Mobile Technology Barclays
16	Atul Kulkarni	1992	EE	Sr. Vice President – Sales and Business Development at Tenova Multiform
17	Sudha Rao			Vice President and Head, Delivery Excellence & Quality at Mphasis
18	Hitesh Thakkar	2009	IT	Business Analysis Sr. Advisor at Dell Global Analytics
19	Raj Jodhpurkar			Center Head - Persistent Systems Ltd.
20	Puja Pandey	2000	IT	Senior Software Engineering Manager San Francisco Bay Area Microsoft
21	Boban Chacko	1996	EL	Group Head – Electrical at Maithon Power Ltd. (JV of Tata Power & DVC)
22	Sameer Gangakhedkar		EE	Wing Commander, Indian Air Force
23	Chaitnya Chakradeo		ME	Major ,Indian Army
24	Ishan Kinkhede		ME	Indian Air Force
25	Swarnim Agrahari	2011	ETC	Indian Air Force
26	Abhishek Sehgal	2010	EE	Indian Air Force
27	Amruta Gandhi	2009	IT	BI - Micro Strategy Professional, Infocepts
28	Aditya Gupta	2009	EL	Project Manager Tata Consultancy Services
29	Ajay Joshi	1991	CE	Technical Director at National Informatics Centre, New Delhi
30	Dnyanesh Pathak	1991	EE	Department Head, LG Electronics, India software Lab Bengaluru Area, India

31	Manish Grover	1991	ME	Managing Director at Synergy Global Resources Pvt. Ltd. Singapore
32	Nidhi (Nidhi Rai) Maheshwari	2006	EE	Senior Director – Markets, Grand Thornton, Mumbai
33	Rohit Bhute	2012	ME	CAE lead Engineer at General Motors Greater Detroit Area
34	Amol Borkar	2012	ME	Body in White Engineer – Lower Structures General Motors
35	Vikram Agarwal	2003	CT	Software Engineer at Google, Hyderabad
36	Vishesh Joshi	2010	CT	Engineering Associate at Yahoo San Jose, California
37	Rohit Akhairamka	2009	IT	Consultant at Deloitte U.S. India Offices Bengaluru, Karnataka, India
38	Tushar Gawali	2013	CE	JE (QS&C) at Military Engineering Services Pathankot Area, India
39	Piyush Sagdeo	2009	ETC	Engineer, Staff II – IC Design at Broadcom San Jose, California
40	Mayuresh Paradkar	2006	CE	Structural Engineer at ABS Consulting Houston, Texas
41	Nidhi Kamdar	2009	ETC	OSD (Officer on Special Duty) at Chief Minister’s Office, Mumbai, Maharashtra, India
42	Anjali Chahal	2010	IT	Consultant at Capgemini, Mumbai, Maharashtra, India

Inculcating a value system among students:

By organizing various programmes from time to time which uplift the social virtues and serve the cause of society of which we are part of, facilitates to build up value system.



Blood Donation Camp

Ethical values are inculcated by arranging discourses of eminent personalities devoted to spiritualism and social upliftment of society. Ethical values are inculcated by practising complete transparency in the entire college functioning from admissions to overall day to day administration.

Promoting use of Technology:

College takes all possible measures to make students conversant with the latest technologies in various engineering streams by way of arranging expert lectures, technical events, sending students abroad under training exchange programmes to foreign universities, undertaking students projects at final year level in collaboration with industry, encouraging the students to handle various modern instruments available in different labs on the campus.

With a view to bring out some modifications and updation in teaching methodologies continuously Pedagogy workshops, Faculty Development Programme, Wipro ‘Mission 10-X’ programs are organized for faculty.

Curricula of all programmes have significant involvement of IT applications in the form of theory and practical. Teachers and staff make use of computers/laptops in teaching learning process. The whole campus is wi-fi enabled. Even the routine administrative and academic affairs are e-governed using “MIS” for including Student attendance, examination related working etc.

Quest for Excellence:

College authorities leave no stone unturned to impart best education, facilities, infrastructure to the students by way of providing most competent faculty, excellent teaching-learning environment and some of the best recruiters in the field of engineering and technology

The Autonomous status granted by UGC, NBA accreditations and re-accreditations of the programmes, innovative practices in teaching learning, Research & Development attitude amongst staff as well as students, excellent track record of placement of students, award of patents, filling of patent applications, number of books written by faculty members, establishment of YCCE-SIEMENS Center of Excellence and many more achievements are the indicators of college’s thrust for excellence.

College authorities often take all possible measures to strengthen the faculty base and enhance their academic output. Faculty members are encouraged to take up research projects – MODROB, RPS, DST, DIT and other funded projects and publish their research work in the reputed national and international journals with good impact factors. College also encourages to go for patenting their research findings and to support this college bears the patent filing fees.

Details of Grant Received to the College during last 4 Years:

S. N.	Funding Agency	Scheme	Dept.	Name of Faculty	Title of Project	Amount (Lacs)	Date of Approval
1	AICTE	MODROBS	Electronics Engg.	Dr. P.K. Dakhole	Modernization of VLSI Digital System Design Laboratory	9.82	30/03/2011
2	AICTE	RPS	Computer Technology	Mrs. Kavita Singh	A Robust Face Recognition System Under Varying Pose and Illumination Conditions.	7.00	31/03/2011
3	AICTE	MODROBS	Electrical Engg.	Dr. R.M. Moharil	Modernization of Advanced Drives Laboratory	8.10	07/03/2012
4	AICTE	MODROBS	Information Technology	Dr. K.K. Bhoyar	Modernization of Advanced Computing Laboratory	10.00	07/03/2012
5	AICTE	NAFETIC	Mechanical Engg.	Dr. S.P. Untawale, Dr. A.V. Kale, Dr. J.P. Giri	Siemens Centre of Excellence For Digital Manufacturing And Robotics	40.00	31/07/2013
6	AICTE	RPS	Electrical Engineering	Dr. S.G. Kadwane	Analysis Of Z Source Converter For Photo Voltaic Application	12.40	11/03/2013
7	AICTE	RPS	Mechanical Engg.	Dr. R.L. Shrivastava	Design, Fabrication, Performance Analysis and Optimization of Optically Concentrated Solar Water Heater using TRNSYS based Model Simulation	4.55	11/03/2013

8	DST	FIST	YCCE	Principal and College Team	College as a whole	15.00	Sept 2014
9	UGC	Minor	Maths	Dr. Mrs. M.P. Gandhi	Fixed Point Theory	2.54	Sept 2014
10	AICTE	RPS	ET	Dr. M.M. Mushrif and Mrs. Y.K. Dubey	Design of Embedded System for Quantitative Analysis and Assessment of Brain Images	4.67	18/03/2015
11	AICTE	RPS	Mechanical Engg.	Dr. A.V. Kale	Performance Evaluation of Automated Rotary Compression Pipe Bending Mechanism	16.47	16/03/2015
					Total Amount	130.55	

College financially supports and encourages the faculty as well as students to participate in the national and international seminars, conferences to present their research work.

College also encourages for publishing research work in the nationally and internationally reputed research journals. College offers incentives in the form of cash awards to these researchers for publication of their research work.

Students are also encouraged to participate in technical events organized by institutes of national repute like IITs, NITs, etc. They are duly compensated and rewarded for such participations.

Year after year YCCE students have excelled in almost all university / Autonomous examinations in the faculty of engineering & technology.

All the above measures taken up by college more than substantiates the fact that college pursuit of excellence in every sphere of activities on the college campus.

Civil Engineering			
2014-15			
SN	Name of Student	Award/Recognition Details	Awarding Organization
1	Amit Tambe Rutuja Dharkar Suchana Telrandhe Harshal Parbat	Second Prize In Model Competition	PRATIKRUTI-15 , A National Level Projcet Competition, YCCE Nagpur
2	Vishal Sangani Vijesh Agrawal Sagar Jasuja	First Prize In Poster Competition	PRATIKRUTI'15 ,A National Level Projcet Competition YCCE, Nagpur
3	Samidha Pathak	First Prize In Inter College Debate Competition	Rotary Club of Nagpur West
4	Samidha Pathak	First Prize In Power Point Presentation Competition	Techwaves -14, Rajiv Gandhi College of Engineering, Nagpur
5	Samidha Pathak	Best Speaker In Inter College Debate Competition	Rotary Club of Nagpur West
6	Samidha Pathak	First Prize In Techvillage	Unnati-15, A National Conference of Students on Explorations In Engineering and Technology
7	Samidha Pathak	First Prize In Elocution	Technostorm-14,Govindrao Wanjarin College of Engineering, Nagpur
8	Samidha Pathak	First Rank	Pace, YCCE Nagpur
9	Samidha Pathak	Winner In Communication Skill For Practical Purpose	Ascent-2014,Umrer College of Engineering
10	Samidha Pathak	Second Prize Debate Competition	Horizon-14, Priyadarshini College of Engineerig, Nagpur
11	Tulshidas Jibhakate Aashay Patil Amit Tiwari Praful Bhoge	Best Paper Award	SPANDAN-15, A National Conference on Advances In Engineering, Technology And Applied Sciences YCCE, Nagpur
12	Shubham Akhatkar Akshay Kale Nishtha Kapse	Best Paper Award	SPANDAN-15, YCCE, Nagpur

2013-14			
1	Gunjan Kirpal Apeksha Yenprediwar Ashwini Dahate Trushali Puri Pankaj dhawale	Best Paper Award	SPANDAN-14, A National Conference on Advances in Engineering, Technology and Applied Sciences YCCE, Nagpur
2	Abhijit K. Khandalkar Mukesh H. Kokarde Abhijeet A. Shende Ahart J. Pazare Dipak S. Nardelwar Swapnil P. Pathe	Best Paper Award	SPANDAN-14, YCCE, Nagpur
2012-13			
1	Sanjiv Harinkhede	Best Paper Award	SPANDAN-13, A National Conference on Advances in Engineering, Technology and Applied Sciences YCCE, Nagpur
Electrical Engineering			
2014-15			
1	Ms. Sayali Pagrut & Team	TCS Best Project Award	TCS
2	Mrunali Kalbut	TCS Best Student Award	TCS
2013-14			
1	Mr. Amit Agrawal	TCS Best Student Award	TCS
2012-13			
1	Ms. Aditi Choudhari	TCS Best Student Award	TCS
2011-12			
1	Mr. Amit Chopade, Aditya Wadode, Vipinkumar Meshram	1 st Prize for Best Paper Award	YCCE, Nagpur
2	Mohd. Mushtaque, Ravi Ranjan Kumar, Mukesh Tiwari	1 st Prize for Best Paper Award	SOFEE & Dept. of Electrical Engineering, YCCE, Nagpur
3	Bablu Kumar, Rasikraj Mude, Ravi Singh, Sumit Kumar Singh, Tushar Lilhare	1 st Prize for Best Paper Award	SOFEE & Dept. of Electrical Engineering, YCCE, Nagpur

Electronics Engineering			
2014-15			
1	Rohit Gawali Yash Bongirwar Pratik Dhoble Anshuman Satpathy Nishikant Das	1 st Prize , National Level Paper Presentation	YCCE, Nagpur
2013-14			
1	Bodele Neha Kirti	1 st Runner up, Inter Collegiate Swimming Competition	RTMNU, Nagpur
2	Khandre Pooja	Paper Presentation, National Level Techfest	Anjuman College of Engineering
3	Sowmya Singh Srishti Chaturvedi Meshram Utkarsha	1 st Prize, National level Paper Presentation	YCCE, Nagpur
4	DapurkarYashoda	Oratory Speech Competition,	NIT, Nagpur
5	DapurkarYashoda	1st Prize ,Paper Presentation, National level Techfest	Anjuman College, Nagpur
6	KasbekarAkshay	1st Prize ,Paper Presentation	J.K. Shankar National level Conference, Mumbai
7	Dalal Palash Mankar Rohit LandeTushar Bawane Pranav	1st Prize, IEEE Paper Presentation, Pursuit-14	IEEE
8	Paresh Kriplani	1st Prize, Paper Presentation, SPANDAN-14	YCCE, Nagpur
2012-13			
1	Aniket Kalode	1st Prize Group Discussion and Personal Interview (Techno Campus)	ICON-13, YCCE, Nagpur
2	Ram Karade	1st Prize, LAN Gaming	ICON-13, YCCE, Nagpur
3	Yashoda Dapurkar	2 nd Prize, Paper Presentation	National Conference by Swami Vivekanand Seva Samiti

4	Pooja Pawar Pooja Kohad Dhanashree Nikhare Dhanashree Deo Rucha Thombre	1st Prize, Paper Presentation	SPANDAN-13, YCCE, Nagpur
2011-12			
1	Aman Agrwal	3 rd Prize Electrox Paper Presentation	GWCOET, Nagpur
2	Roham Benodekar	3 rd Prize ICON 12.0 Invenio	YCCE, Nagpur
3	Mansi Raje	2 nd Prize , Student Awareness Contest	VIT, Pune
4	Spana Thote Sayali Bhisare	1st Prize Spandan-2012 Paper Presentation	YCCE, Nagpur
Electronics and Telecommunication Engineering			
2011-12			
1	Radhika Lambe Rupali Pawar Ashish Bodhale	Best Paper Award	Spandan – 2012 YCCE, Nagpur
2	Mohammed Sadique Khaja Sheikh	Best Paper Award	BLITZKRIEG-2012, DMIETR, Wardha
3	Pankaj Bhope Akanksha Parad Ashitmuni Wakade Madhura Patil	Best Paper Award	Spandan – 2012 YCCE, Nagpur
2012-13			
1	Kalpita Bhawalkar Anuja Paliwal Ashwini Dongre Prajakta Kadu Jaspreet Kukreja	Best Paper Award	Spandan – 2013 YCCE, Nagpur
2	Gulsaba Khan Neha Nirwan Shruti Paranjpe	Best Paper Award	Spandan – 2013 YCCE, Nagpur
3	Chetan Tekade Gaurav Narnaware Nitin Kolte Sameer Chakole	Best Poster Award	Spandan – 2013 YCCE, Nagpur

4	Harshal Tayade Jayendra Kailaskar Parag Yelore Parikshit Deshmukh	Best Paper Award	SPARSH-2013 DMIETR, Wardha
5	Nupur Tupkar Sakshi Hiwanj Nikhil Kadam Siddhesh Gaiki	Best Project Award	National Level Techfest Wheel Spin-13, Bapurao Deshmukh College of Engg, Wardha
6	Apeksha Kulkarni Ashwini Yewale Shruti Jaiswal Nupur Tupkar	Best Project Award	National Level Tech fest XPLORE 4.0 RGCER, Nagpur
7	Nupur Tupkar Sakshi Hiwanj Nikhil Kadam	Best Project Award	PRATIKRUTI, YCCE, Nagpur
2013-14			
1	Parate Anjali Parad Apurva Untawale Jasmin Shinde Anurag	Best Paper Award	Spandan – 2014 YCCE, Nagpur
2	Parate Anjali Parad Apurva Untawale Jasmin Shinde Anurag	Best Paper Award	TECHNICO ENTREVISTA- 14 St. Vincent Palotti College of Engg, Nagpur
3	Gunnale Rujuta Meshram Samiksha Waghmare Snehal Hinge Snehal	Best Paper Award	Spandan – 2014 YCCE, Nagpur
4	Chakate Anup Khandare Darshan Badole Sandesh Lutade Swapnil	Best Paper Award	Spandan – 2014 YCCE, Nagpur
5	Gunnale Rujuta Meshram Samiksha Waghmare Snehal Hinge Snehal	Best Project Award 2 nd Prize	PRATIKRUTI, YCCE, Nagpur
6	Vaijayanti Kunnawar Gale Rajkiran Joshi Suraj Ambhorkar Utkarsha	Best Project Award 3 rd Prize	PRATIKRUTI, YCCE, Nagpur

Computer Technology			
2014-15			
1	Neha Deshpande Pooja Malviya Rashmi Fusate Shweta Dyavartiwar	Pratikruti (National Level Project Competition)	YCCE, Nagpur
2	Ragini Fulzele	Pratikruti (National Level Project Competition)	YCCE, Nagpur
2013-14			
1	Mohit Tare Jayant Sable Devendra Paratwar Indrajit Gohokar	Project Competition	TCS, Mumbai
2	Ashwini Bhake Mayuri Joshi Revati Deshmukh Kalashree Hemke	Pratikruti -14 National Level Project Competition	YCCE, Nagpur
3	Pranjal S. Dani Mansi S. Dipani Mandeep Singh Rachana Deolikar Prathamesh	Inovaco-13.0	YCCE, Nagpur
2012-13			
1	Chetan R. Chopade Ritesh J. Chetwani Gaurav G. Timkhede Dhananjay S Sathe	International Conference ICCSIT – 2012	
2	Rohit Shambhuwani Abhisehk Gaurav Sayan Bhattacharyya Rahul Trivedy	SPANDAN-13, Paper Presentation	YCCE, Nagpur
3	Ketaki Hardas	The Longest Heena Marathon	Guinness World Record
4	Kriti Bansod Harshil Bhatnagar Yashi P. Verma Divya R. Naidu	Projectivity, Project Competition	YCCE, Nagpur
5	Piyushkumar Hire Aditya Gajbhiye	TECHNOWAVE- 2012	GH RCE, Nagpur
2011-12			
1	Kaushik Talukdar Digbijoy Choudhury Abhinav Borgohain Raktim J. Rajkhowa	SPANDAN-12	YCCE, Nagpur

2	Akshay A. Gore Nikhil Barote Deepak D. Jadhav Aditya S. Nahata	COMPUFEST-12 SOFEE-12	YCCE, Nagpur
3	Prateeksingh Bais Tanikanti Aditya Pankaj Meshram Kamaldwip Choudhury	COMPUFEST-12 SPANDAN-12	YCCE, Nagpur
Information Technology			
2014-15			
1	Ms Afreen Shaikh	Best Project Award	YCCE, Nagpur
2	Mr.Mayur Khante	Best Paper Award (PG)	Anjuman College of Engineering, Nagpur
3	Ms.Dolly Jeswani	Best Paper Award (PG)	Institute of Research and Journal, Pune
4	Rucha Wankhade	Best Project (2 nd Prize)	PCOE, Nagpur
2013-14			
1	Mr.Pranjal Patil	Best Paper Award	National Conference Spandan- 14, YCCE Nagpur
2	Aswini Bhivgade	“Code frenzy” and “Guess Me Face Me” (1 st & 2 nd prize)	PRAJWALAN Govt. College of Engg. Amravati
2012-13			
1	Mr. Suraj Porte	Best Paper Award	Spandan-15 YCCE, Nagpur
2	Ms. Swati Shelar	Best Paper Award	JIT, Yavatmal
3	Ms. Kumari Monu	Best Paper Award	National Conference, on Recent Trends in IT JIT, Yavatmal
4	Ms. Aswini Bhivgade	Code frenzy and Encipher C/C++, 1 st Prize	PRAJWALAN Govt College of Engg. Amravati
5	Ms. Leena Kharche	Best Paper Award	ICON-13, YCCE, Nagpur
2011-12			
1	Rohal Chava	Basketball, Athletica, NASSIF, 1 st Runner up	RTMNU, Nagpur

6.1.11 Give details of the UGC autonomous review committee's recommendations and its compliance.

The college got autonomous status from UGC in the academic year 2010-11 for 6 years. Now the college is in 6th year of autonomy. The UGC expert review committee is expected to visit the college in Jan 2016.

6.2 Strategy Development and Deployment

6.2.1 Does the College have a Perspective Plan for development? If so, give the aspects considered in development of policy and strategy.

- Teaching and learning
- Research and development
- Community engagement
- Human resource planning and development
- Industry interaction
- Internationalisation

Education is the principal instrument of developing human capabilities and pathway to the empowerment of people and development of nation. Engineering and Technical Education are the major driving forces for human development in India. Technical education plays a crucial role in the growth of human capital by generating skilled manpower, enhancing industrial productivity and the quality of life. The massive growth of Indian economy and the vision of India becoming super-power resides on the creation of competent technical manpower with improved skills, knowledge, nationally and internationally recognized qualifications to gain access to decent employment and ensure India's competitiveness in the global market.

College has formulated 'Perspective Plan for Development' keeping in view of these objectives and its mission as stated earlier, which defines college distinctive characteristics with regards to addressing the needs of the society, its students fraternity, college's traditions and value orientations.

Some of the salient features of this are as under:

1. To achieve complete autonomy for the College
2. Internationalization of Engineering Programmes
3. Quality Assurance Measures through:- Accreditation and Reaccreditation processes of all the programmes college offers (e.g. NBA, NAAC etc.) In fact, NBA team has already accredited UG programmes thrice.

DEVELOPMENT POLICY AND STRATEGY:

1. Teaching and Learning:

It is one of the major aspects to be considered in the development of policy and strategy. On conferring autonomous status, by UGC, the need of the hour for college is to develop relevant curricula on the basis of identified outcomes, specific to a profession and also the possible employment streams within. Accordingly, one of the fundamental outcomes of any programme should be employability.

It is thus envisaged:

- To restructure the existing syllabi so as to enhance the component of Field Training and Industry Training in the curriculum. In fact, attempts are going on for MOU's with the local industries.
- It is well known fact that faculty is the backbone of any institution. UGC and AICTE have been making proactive efforts to upgrade the knowledge of faculty members through the Programmes like Faculty Development Programme (FDP) / Quality Improvement Programme (QIP) / Short Term Training Programmes (STTP) etc. Through FDP college aims at equipping teachers with skills and knowledge that are essential for inculcating values in students and guiding as well as monitoring their progress towards a professional career. Also, it is an endeavor of the college to facilitate upgradation in the qualifications of in-service teachers to acquire Ph.D. qualifications. College also takes efforts to make available video and web based learning resource packages for faculty which are developed by IITs and IISCs for different disciplines through the National Programme on Technological Enhanced Learning (NPTEL) to enhance their technical skill and knowledge.
- For skill up-gradation of Non-teaching staff, training are organized in house or they are deputed for training programs.
- To upgrade academic infrastructure which includes laboratory set ups, equipments, computing facilities, learning resources, scientific and technical journals, access to international data bank and internet facilities.
- To implement innovative interactive T-L methodologies.
- To emphasize on research work that suits to local industrial requirements.
- To create modern equipment facilities for Teaching and Research.
- To enhance, strengthen interaction with the industry and society.
- To bring out modernizations and innovations in Teaching.

2. Research and Development:

Teaching and research are hallmark of a good and progressive technical institution. This novel perception can be in vogue only by way of having such innovative Teaching Learning Methodologies in practice which are not only limited to impart knowledge to young budding engineers or technocrats but also to provide them an opportunity to create their own knowledge wealth. This is essentially true in the back drop of the fact that research aptitude in students is not properly developed during their course of study.

In order to keep pace with the rapidly changing research and human resource needs of the industry and further to improve quality of research, college envisages following measures:

- To invite eminent researchers and academicians as Mentor to be a part of Departmental Research Committees (DRCs) essentially to assess the performance of the research students on the basis of presentations made or seminars delivered on research work / research findings. Accordingly they guide scholars to bring out necessary changes or modifications, in the research methodologies if necessary.
- To encourage the students to select such projects which suit the requirements of industries.
- To motivate regular faculty to pursue research activities leading doctoral degrees. College offers concession in fees for research work by regular faculty of YCCE.
- To encourage the students as well as faculty to publish their research work/findings in the reputed nationally or internationally acclaimed research journals, present their research findings in the national and international conferences. In fact, research students are required to publish research papers prior to their Ph.D. thesis submission. As a policy matter, to encourage faculty members for research publications, college provides travel assistance and pays Registration Fee to present the papers in reputed journals or national and international conferences. This is essentially being done to provide an opportunity to the researchers to interact with the experts in the concerned research area and strengthen their research outputs with regards to comments received and suggestions offered by these experts during presentation of research work in the seminars / conferences and also seek their guidance for further improvement.
- To make efforts to improve sponsored research and consultancy activities. To fulfill these objectives college provide necessary infrastructure to pursue one's research activities and also allocate research funds to all the teaching departments to attend seminars, workshops and conferences related to their research fields.

College is taking every possible effort to enhance the standard of research work being carried out and the research methodologies being used.

3. Community Engagement:

Universities and educational institutes are expected to create future leaders and promote leadership. Whatever an Institute is measured for its value and performance, it is the societal value added by the graduates and alumni that should be evaluated and not the performance of the management. Universal values of education are built on developing citizens with humane approach and social consciousness.

Every year, National Students' Service Wing of the college organizes blood donation camps wherein teaching staff members, non teaching staff members and students fraternity participate with great enthusiasm to donate the blood. In case of any contingency or emergency, so arises, the blood banks which have been invited for blood collection in these camps, offer their services generously to college staff members, their kith, kin and relatives and students to make available necessary quantum of blood of any blood group with least difficulties.

NSS students / Student Societies strive for prevention of pollution in water bodies and visit nearby orphanages, Old-age homes to distribute clothes, text books, and school stationery to the children.

Such type of visits and interactions thereof with these children help them to overcome the feelings of 'social isolation' due to their disabilities compounded with financial constraints.

4. Human Resource Planning and Development:

As regards to Human Resource Planning, the college, in consultation with experts, has prepared organizational chart defining positions, authority, responsibility, accountability and inter-relationships to improve functioning of all the departments. This organizational chart has been widely distributed to all the functional Heads and all other staff to understand their role perception and to increase efficiency through systematic approach.

Management, Faculty, Non teaching staff and Students are four pillars of any academic institute. From time to time, college takes all such measures which lead to skill enhancement of non teaching staff and improvement in professional development of faculty. Some of the measures which are taken in this regards are as under:

- Regularly arrange skill up-gradation training for non-teaching staff and periodic rotation or reorientation of the jobs between different laboratories / departments so as to have a wider exposure and acquaintance with various existing engineering trades available in the college. This exercise facilitates enhancement in their familiarity and competency to handle various machines and trades in different laboratories of the college.

- Encourages the faculty to attend seminars, workshops, conferences, STTP and Faculty Development Programmes (FDP) organized under the aegis of AICTE, ISTE, DST, UGC, etc. for the professional development of faculty and to facilitate up-gradation of qualifications of in-service teachers.
- College authorities also encourage faculty to pursue research in the area of their own liking/disciplines essentially to establish one's research group by way of taking requisite efforts to procure research grants from various central government monitored funding agencies like AICTE, UGC, DST, etc. and to carry out doctoral research to enhance their qualifications to acquire Ph.D.
- College has fees concession policy for Ph.D. registration of regular faculty of YCCE..
- College also encourages the faculty to publish their research findings in the form of research paper(s) either in the journals or in conferences of national and international repute.
- College reimburses the registration fee for attending conferences and offer travel assistance to attend the conferences in India as well as abroad.
- College encourages faculty to carry out a quality research work which is worth of filing patent. College bears the charges to file the patent based on one's research findings.
- College authorities encourage non teaching staff also to enhance their qualifications and to attend different Training programmes to acquire newer technical skills.



Training Programme for Support Staff

5. Industry Interaction:

Both Industry as well as Institute would like to explore possibility of bridging the gap by establishing relationship for the benefit of society as a whole. It will be an endeavor of the college to take all those measures which will facilitate to bridge the gap and to establish relationship with the industry.

These are:

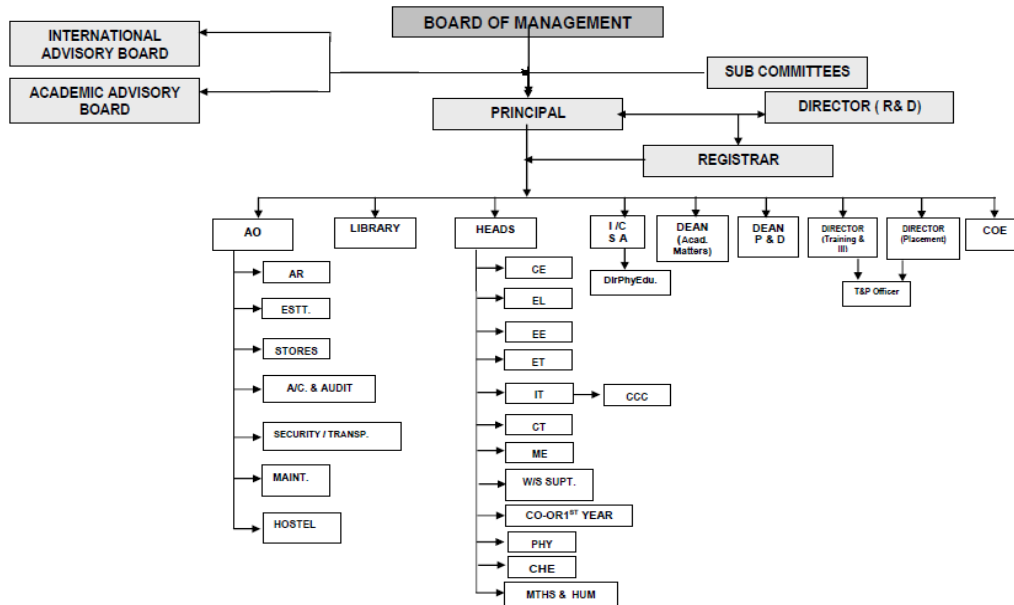
- To provide educated technical skilled man power to industry.
- To educate the students to opt for entrepreneurship in the specialized area and create job opportunities for others.
- To establish the facilities to impart corporate training.
- To strive for growth and development of the society.
- To create necessary infrastructure to offer need based consultancy to the industry.
- To set up well equipped laboratories for testing and analysis of various samples and engineering materials for industry.

6. Internationalization:-

Considering the rapid pace of globalization in engineering, technology and management fields it is envisaged that our faculty and students, too, should have global exposure. To accomplish this objective college has explored various possibilities to establish international linkages. These efforts have been successful in forging ties with internationally acclaimed overseas universities / academic institutes from USA, UK and Malaysia for students and faculty exchange, joint degree programmes, research activities, sharing best experiences in best practices, innovative and creative concepts.

The college has MoU with, SEGi University Malaysia, Purdue University, Northern Illinois University, USA, Michigan State University USA, University of Massachusetts of Lowell USA, Lawrence University, USA, University of Hartford USA.

6.2.2 Enunciate the internal organizational structure of the College for decision making processes and their effectiveness.



6.2.3 Specify how many planned proposals were initiated/implemented, during the last four years. Give details.

In view of ever increasing preference and heavy demand for seats in UG Programmes in Electronics and Telecommunication Engineering, the College has increased intake from 120 to 180 in the year 2012-13.

Looking at the plan of investment in the infrastructure creation by the Government, the college foresaw the enhanced demand for graduates in Mechanical Engineering, Electrical Engineering and Civil Engineering Branch. The seats were increased from 120 to 180 in the above three programmes from 2013-14.

6.2.4 Does the College have a formally stated quality policy? How is it designed, driven, deployed and reviewed?

The governance of the college, including policy planning for resource mobilization, vital action plans and programme of activities at the College and Departmental levels, is strictly in accordance with avowed vision and mission statements and the quality policy and objectives laid down by management and the academic, administrative and financial policies spelt out by the Management and the norms, standards, rules and regulations and the executive directions issued by AICTE, RTMNU, the Government of Maharashtra, and Directorate of Technical Education, Mumbai, Maharashtra State and such other regulating Government Agencies. The Board of Management constitute the apex management authority.

The Principal is responsible for academic, general and financial administration, besides the holistic development of the college, the welfare of and discipline among the faculty, staff and students.

The Principal is ably directed and advised by the Chairman and Secretary and very well assisted by the Registrar, Director (R&D), Dean (Planning & Development), Dean (Academic Matters), Heads of the Departments, various functional heads, the Conveners / Coordinators of various committees (constituted for carrying out student-centric and staff friendly and development activities) and the administrative and other supporting Staff.

Recruitment policies, service rules and leave rules etc., have been framed, approved by the Management and circulated among the Faculty and Staff for information – an administrative manual is prepared recently, indicating administrative policies, rules, systems and practices including duties and responsibilities of all the employees, code of conduct, disciplinary proceedings and Grievances Redressal Procedures and mechanism.

The performance appraisal of the faculty including the Feedback by the students and also the feedback of the students on the Governance of the college are being administered, analyzed and the needed remedial, makeup and corrective measures are initiated.

6.2.5 How does the College ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?

In fact, College has constituted different committees for redressal of the grievances received from students and staff namely Grievance Committee for Students, Institutional Grievance Appellate Board Committee, Institutional Grievance Committee for Teaching and Non-Teaching Staff, Sexual Harassment Redressal Committees and Examination related Grievance redressal committee.

Procedure for lodging the Complaint/Grievance is as follows:

1. The aggrieved person can register their grievances in writing or in person.
2. The grievance cell in its meeting, held as the occasion demands, takes up all these cases accompanied with required documents for their redressal.
3. Grievance cell ensures the speedy and proper redressal of the grievances in consonation with laws of natural justice.
4. In case of sensitive grievances the identity of the aggrieved person is concealed.

The committee to deal with various student grievances and its constitution is as follows:

Grievance Committee for Students (Non Academic Matters)		
Name	Category	Designation
Dr. U.P. Waghe	Principal	Chairman
Dr. P.K. Dakhole	Registrar	Member-Secretary
Dr. S.D. Bhole	Dean (Acad. Matters)	Member
Dr. Manish Chawhan	Asso. Professor in ETC	Member
Dr. P.M. Meshram	Asso. Professor in Electrical Engg.	Member
Dr. S.G. Mahakalkar	Professor in Mechanical Engg.	Member
Dr. Mrs. R.A. Patil	Professor in Chemistry	Member
Dr. P.B. Bahatkar	Professor in Mathematics	Member

6.2.6 Does the College have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

College has formal and informal feedback mechanism in place, which are analyzed and necessary corrective actions are taken at appropriate level. Assessment is based upon the methodology being followed for analysis of feedback and its effectiveness.

Feedback collection process:

Feedback on teaching/learning process and infrastructure facilities is collected by the office of Dean Academic Matters twice in one semester. The feedback is collected online in anonymous method from all the students.

Feedback analysis process:

The feedback is analyzed to assess the teaching capabilities, teachers' habits, usage of technology in the classroom, subject contents and overall satisfaction level of students.

Corrections required in each teacher's delivery method, improvement in technical contents through usage of technology, effectiveness of the teacher and finally the grading of teachers on the basis of feedback collected is arrived at through the analysis.

The comments of the students are discussed with the teachers either by the Dean (Academic Matters) or HoDs in informal meeting. A special committee consists of the Principal, Dean (Academic Matters) and Head of the department interacts with the teachers with score less than the benchmark score to understand the problems and to exhort the teacher to perform better.

Exit Feedback:-

The Feedback from graduating students is sought to understand the satisfaction levels regarding the various parameters of teaching/learning process, administrative process, infrastructure facilities etc. offered by the college.

Following is the description of feedback taken from students:

Mid-Semester Feedback:	
Number of Feedback Items:	25 (Approximate)
Number of Feedback levels:	Theory Specific, Faculty Specific, Practicals, Support Facility and infrastructure
Space for descriptive feedback/suggestion etc.?	YES
Any consistency check?	YES
Any performance/attendance profile?	NO
Frequency of feedback collection :	Once in a semester
Feedback collection :	Web-based but hard copies are used in exceptional circumstances
End-Semester Feedback:	
Number of Feedback Items:	30 (Approximate)
Number of Feedback levels:	Action taken on Mid-Sem feedback Academic and infrastructure, support facility, Computer Centre, Library and e-resources
Space for descriptive feedback/suggestion etc.?	YES
Any consistency check?	YES
Any performance/attendance profile?	NO
Frequency of feedback collection :	Once in a semester
Feedback collection :	Web-based but hard copies are used in exceptional Circumstances

6.2.7 In what way the affiliating University helped the College to identify the developmental needs of the College?

The objectives of any university shall be to disseminate, create and preserve knowledge and understanding by teaching, research, extension and service and by effective demonstration and influence of its corporate life on society.

These objectives can be served to a large extent by way of guiding the affiliated college / autonomous colleges to identify their developmental needs.

This has been achieved by taking following measures.

- As per the suggestions received efforts were made to create links and develop schemes of inter University and university and College Interaction with Industry, Agriculture, Banks, Commerce and Community.
- College has prepared perspective short term and long term plans keeping in view of the objectives of itself and the university and with due regards to the State and National Educational policy.
- College has established different functional cells to monitor all such approved developments and collaboration programmes.
- College has been organizing academic audit of development and collaboration programmes of college.

By taking above mentioned measures affiliating University can help the college to identify its developmental needs. Thus, even if a college is conferred with autonomous status by UGC and by affiliating university, latter has a major role to play in the development of its affiliated colleges.

6.2.8 Does the affiliating university have a functional College Development Council (CDC) or Board of College and University Development (BCUD)? If yes, In what way College is benefitted.

Since UGC has granted only Academic Autonomy to YCCE, it is still affiliated to R.T.M. Nagpur University, Nagpur. Affiliating University has a functional Board of College and University Development (BCUD) headed by Director which is instrumental for:

- Grant of permanent affiliation to a college to affiliating university
- Pre sanction of additional courses
- Approval of internal orientation programs made under Career Advancement Scheme and
- Permission of approved research center for a particular programme to pursue doctoral research in that stream

6.2.9 How does the College get feedback from non-teaching, teaching, parents and alumni on its functioning and how it is utilized?

College has established a system of getting feedback from both parents and alumni through Parents-Teacher meet and Annual College / Departmental Alumni Meet.

Feedback from parents is sought through Parents-Teacher meeting which is organized once in a semester as per the schedule given in academic calendar. This meet is essentially organized to make the parents aware of college policies / programmes, examination schedule, scheme of examination and evaluation, progress of ward and tentative dates of result. In this meet

parents have an opportunity to know the performance of their wards, in each of the course undertaken in a programme, their punctuality and sincerity with regards to their theory and practical attendance. Besides these, any other matter which department feels necessary to share with parents may be kept on the agenda of the meeting. Department welcomes the suggestions received from the parents and try to address those which are in the interest of the students.

The suggestion(s) related to a particular department are put up in the faculty meeting by the HoD and appropriate decision is taken. The suggestion(s) regarding the central facilities etc are put up before the Principal.

Alumni Meet is organized once in a year. This meet is organized at two levels one at departmental level and another one at College level. In these meetings alumni collaborate with their departmental faculty and come out with their constructive suggestions / free and frank opinions with regards to

- Existing curricula
- Recent Industry trends
- Expectations of industry from passed out engineering and technology students
- Possible changes those can be made in the curricula to meet the industry challenges
- Expectations of students from the departmental faculty to offer their best

Departmental Head regularly interact with Teaching Faculty and Non-Teaching staff during the monthly meeting. He seeks suggestion on system and functioning of the department and college, which are further collated and forwarded for corrective action, if needed, to the Principal.

The outcome of these meets, constructive / suggestions received from different quarters / stakeholders are then communicated to Principal and / or Dean (Academic Matters) for follow up action and to prepare action plan if so required.

The action plan(s) with regards to these are prepared either by the Concerned Head of the Department at the departmental level or by Dean (Academic Matters) at the college level in consultation with and prior approval from the Principal.

The action plan(s) are implemented in right earnest and the record(s) are maintained by the respective departments and office of Dean (Academic Matters).

6.2.10 Does the College encourage autonomy to its academic departments and how does it ensure accountability?

On conferment of academic autonomy by UGC and affiliating university; College has taken all the possible measures that lead to encourage autonomy in true spirit.

All Heads of the Departments after series of fruitful deliberations with its faculty, Curriculum Development workshops, involving academic peers from IIT's, NITS and reputed institutions, research organizations, Industry experts and personnel from different industrial organizations have devised the scheme of examination and Syllabi for the respective programme offered.

College has also constituted various statutory and non statutory bodies as per the XI plan guidelines of UGC and Maharashtra University Act, 1994. Statutory bodies constituted are:

Board of Management

Board of Management	
Recommended Composition of BoM	BoM Members
The Chairman	Shri. Dattaji Meghe, Chairman, Nagar Yuvak Shikshan Sanstha
Members nominated by the registered society / trust	Shri. Sagarji Meghe, Secretary, Nagar Yuvak Shikshan Sanstha Shri. Sameerji Meghe, Treasurer, Nagar Yuvak Shikshan Sanstha Dr. Avichal Kapur Prof. N.J. Rao, IISc. Bangalore Dr. I.K. Bhat, Director, MNIT, Jaipur Shri. H. O. Thakare, Executive Director (Tech.), NYSS
Nominee of UGC.	Dr. Mrs. Anula Maurya, Principal, Kalindi College, New Delhi
Technical expert nominated by Management for Autonomous working	Dr. S.C. Sahasrabudhe, Director, Dhirubhai Ambai IICT, Gandhi Nagar, Gujarat
Nominee of the AICTE	Nomination awaited (Ex-officio)
Industrialist / technologist / Educationist from the region nominated by concerned regional committee as nominee of the AICTE	Nomination awaited
Nominee of the affiliating university	Dr. Satish R. Wate, Director, NEERI, Wardha Road, Nagpur
Nominee of the state government	Dr. G.R. Thakare, Joint Director, Technical Education, Regional Office, Nagpur (Ex-officio)
Industrialist / technologist / Educationist from the region nominated by the state government	Nomination awaited
Principal of the institute (Ex-Officio)	Dr. Uday P. Waghe, Member Secretary
Two faculty members nominated from regular staff of the institute. (1 Prof. +1 Asso. Prof.)	Dr. A.V. Patil, Professor, Civil Engg. Dr. R.A. Patil, Professor, Chemistry

Academics Council

Academics Council	
Category	Members
The Principal as Chairman	Dr. U.P. Waghe, Principal
Nominee of Vice-Chancellor	Dr. Ravi Kshirsagar, Dean, Faculty of Engg and Tech., RTM Nagpur University
Nominee of Vice-Chancellor	Dr. M.S. Kadu, Professor and Head, Civil Engg, RCOEM, Nagpur
Nominee of Vice-Chancellor	Dr. S.D. Dawande, Professor, Laxminarayan Institute of Technology, Nagpur
Outside experts from Industry, Commerce Law, Education, Medicine, Engg. etc, to be nominated by the Governing Body	Dr. N.C. Siva Prakash, Professor, IISc, Bangalore Mr. Prashant Karandikar, Head - Strategic Resourcing Group L&T Infotech Ltd., Mumbai Mr. Sameer Bendre, Chief People Officer Persistent Systems Ltd., Nagpur Mr. Ashish Khole, TAL Manufacturing Solutions MIHAN SEZ, Nagpur
All HoD's	Dr. Sudhir V. Ambekar Dr. Sharad S. Chaudhary Prof. Bhushan Y. Bagde Dr. Mrs. S. V. Rathkanthiwar Dr. Prasanna L. Zade Dr. Mrs. Kavita R. Singh Dr. Ms. Ujwalla H. Gawande Dr. Mrs. Manjusha P. Gandhi Dr. Mrs. S. A. Fadnavis Dr. Mrs. Jyoti V. Miskin
Four teachers of the college representing different categories of teaching staff by rotation on the basis of seniority of service in the college	Dr. P.K. Dakhole Dr. P.T. Karule Dr. J.R. Ghulghule Dr. A.V. Patil
Special Invitee	Prof. Aniket P. Munshi
One faculty member nominated by the Principal as Member Secretary	Prof. S.D. Bhole, Dean (Academic Matters)

Board of studies for respective departments

Board of Studied in Civil Engineering		
Name of Member	Category	Designation
Dr. S.V. Ambekar	Head of the Department	Chairman
Dr. A.L.Dandge	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Er. R.A.Sahu	Representative from industry/ corporate sector/allied area relating to placement.	Member
Dr. H.S.Patil Professor , SVNIT, Surat	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. O.R.Jaiswal Associate Professor, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. A. D. Ghare	Expert nominated by the vice- chancellor	Member
Ms. Veena Ganvir	Postgraduate meritorious alumnus nominated by the Principal	Member

Board of Studied in Mechanical Engineering		
Name of Member	Category	Designation
Dr. S.S. Chaudhari	Head of the Department	Chairman
Mr. A.P. Edlabadkar	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Mr. D.D. Deshmukh	Representative from industry/ corporate sector/allied area relating to placement	Member
Dr. D.V. Bhope RGCOE, Chandrapur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. P.M. Padole VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. V. H. Tatvawadi Principal, DBACER	Expert nominated by the vice- chancellor	Member
Dr. Sheetal Chiddarwar	Postgraduate meritorious alumnus nominated by the Principal	Member

Board of Studied in Electrical Engineering		
Name of Member	Category	Designation
Prof. B. Y. Bagde	Head of the Department	Chairman
Dr. S. G. Kadwane	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Mr. J. K. Wadhavan	Representative from industry/ corporate sector/allied area relating to placement	Member
Dr. B.S.Umre VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. (Mrs.) M. A. Chaudhari VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. V.T. Barhate RCOEM, Nagpur	Expert nominated by the vice- chancellor	Member
Mr. Altaf Badar	Postgraduate meritorious alumnus nominated by the Principal	Member

Board of Studied in Electronics Engineering		
Name of Member	Category	Designation
Dr.Mrs. S.V. Rathkantiwar	Head of the Department	Chairman
Ms. P.P. Zode	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Dr. A. G. Keskar, Professor, VNIT	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. S.B. Dhok Professor, VNIT	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr.S.S Limaye	Expert nominated by the vice- chancellor	Member
Mr. Amar Akre, CEO, CEO, SAP Control Systems, IT Park, Nagpur	Representative from industry/ corporate sector/allied area relating to placement	Member
Ms. Abhilasha Tiwari	Postgraduate meritorious alumnus nominated by the Principal	Member

Board of Studies in Electronics and Telecommunication		
Name of Member	Category	Designation
Dr. P. L. Zade	Head of the Department	Chairman
Prof. A.D. Belsare	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Dr. K. D. Kulat, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. A. S. Gandhi, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. R. S. Pande, Principal, RCOEM	Expert nominated by the vice-chancellor	Member
Mr. Unmesh Oke, MD, Automation Pvt. Ltd., Nagpur	Representative from industry/corporate sector/allied area relating to placement	Member
Mr. Rahul Batra	Post Graduate Alumni	Member

Board of Studies in Computer Technology		
Name of Member	Category	Designation
Dr. Kavita R Singh	Head of the Department	Chairman
Dr. Mueksh M Raghuwanshi	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Dr. N.V. Thakur, Shri. Ram Meghe CoE &M Badnera, Amravati	Subject expert from outside the college to be nominated by Academic Council	Member
Dr. P.S. Deshpande, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. Unmesh Deshpande, VNIT, Nagpur	Expert nominated by the vice-chancellor	Member
Mr. James Maslamani TCS, Mumbai	Representative from industry/corporate sector/allied area relating to placement	Member
Prof. Monal Torney Govt. Polytechnic, Bramhapuri,	Postgraduate meritorious alumnus nominated by the Principal	Member
Prof. Sagar Badhiye		Member

Board of Studies in Information Technology		
Name of Member	Category	Designation
Dr. U. H. Gawande	Head of the Department	Chairman
Mr. S. W. Shende	Faculty Member	Member Secretary
All Faculty Members of Department	Faculty Member	Member
Dr. O.G. Kakde Director, VJTI, Mumbai	Subject expert from outside the college to be nominated by the Academic Council.	Member
Dr. S. R. Sathe Professor, VNIT, Nagpur	Subject expert from outside the college to be nominated by the Academic Council	Member
Dr. Anjali Mahajan, Professor, Govt. Polytechnic	Expert nominated by the Vice-Chancellor	Member
Mr. Avinash Moharil CEO Techior Solutions Pvt. Ltd., Nagpur	Representative from industry/ corporate sector/allied area relating to placement	Member

Finance Committee

Finance Committee		
Name	Category	Designation
Dr. U.P.Waghe, Principal	Principal	Chairman
Mrs. Padmaja Ballam, CA	One person to be nominated by The Governing Body of the college for a period of two years	Member
Dr. Anant M. Pande, Director (R&D)	One senior teacher of the college to be nominated in rotation by the principal for two years.	Member

Non Statutory Boards are:

Examination Committee

Examination Committee		
Name	Category	Designation
Dr. U.P.Waghe	Principal	Chairman
Dr. P.T.Karule	Controller of Examination	Member Secretary
Dr. P. K.Dakhole.	Registrar	Member
Dr. S. D. Bhole	Dean (Acad. Matters) & Evaluation expert nominated by the principal	Member
Dr. J.R. Ghulghule	Ten year teaching experience,nominated by rotation according to seniority	Member
Dr. R.M. Moharil	Ten year teaching experience,nominated by rotation according to seniority	Member
Dr. K.K. Bhoyar	Ten year teaching experience,nominated by rotation according to seniority	Member

Students' grievances redressal committee

Grievances Redressal Committee		
Name	Department	Designation
Dr. K.K. Bhoyar	Information Technology	Chairman
Prof. A.V. Gokhale	Electronics Engg	Member
Mrs. G.M. Dhopavkar	Computer Technology	Member

Committee to discuss unfair means, cares etc.

Unfair Means Investigation Committee / Disciplinary Action		
Name	Department	Designation
Dr. R.M. Moharil	Electrical Engg.	Chairman
Mrs. R.A. Fadnavis	Information Technology	Member
Dr. S.D. Kshirsagar	Mechanical Engg.	Member

All these committees work quite independently as per the power delegated and are accountable for results.

All the examinations under autonomy in various courses for different programmes are conducted as per the teaching schemes and syllabi approved by Board of studies and Academic Council. Controller of Examinations plans, organizes and conducts these examinations.

As regards to continuous evaluation is concerned, Teachers' Assessments of students' performance is one of the components of assessment. Student is assessed for 10 marks for this component on the basis of different parameters like i) Home assignments ii) Tutorials iii) Open book test(s) iv) Seminars v) Group discussion vi) project(s) vii) quizzes etc. for the concerned course(s). The course coordinator / teacher prepares course handout within the time schedule announced / notified by Dean (Academic Matters). In case a course is being taught by more than one subject teacher, the mode of teachers' assessment may be declared by the concerned teacher(s) section-wise.

A student is also evaluated for academic performance in a practical course on the basis of continuous evaluation and End Semester Practical Examination.

Autonomy is also exercised in the continuous evaluation of practical courses too; wherein the mode of assessment may be based on any one or more than one or on all of the following parameters. They are i) Journal Completion based on experiment performed ii) performance in each of the experiments performed and or prescribed iii) continuous assessment through viva – voce and iv) End Semester Practical Examination.

College has also constituted a committee to work on Academic Self-Evaluation Report as per provisions of para-9 in the UGC Guidelines for Autonomous colleges. The committee prepares its report and tables before Academic Council of the college for its approval. In this report committee suggest mechanism for evaluation of academic performance, improvement of standards of extend and degree of success in utilization of Autonomy. An Academic Self-Evaluation Report is prepared each year by exercising the mechanism suggested by this committee.

6.2.11 Does the College conduct performance auditing of its various departments?

College conducts periodic performance audit of all the teaching departments as Department Level Audit (DLA) which is qualitative and quantitative. A format has been created in which the data is collected, analyzed. Through college appointed committee of internal faculty members, the internal audit is effectively carried out. All the points related to compliance of the audit are communicated to all concerned.

6.3 Faculty Empowerment Strategies

6.3.1 What efforts are made by the College to enhance the professional development of teaching and non teaching staff?

It is always endeavor of the college to have a strong faculty base supported by a competent team of non teaching staff members.

To achieve this objective college authorities encourage the faculty members for enhancement of their academic attainments and enrich themselves with research and industry experience for all-round academic development. Faculty members are encouraged to attend Short Term Training Programs (STTP), Workshops, Seminars and Orientation Courses by way of sponsoring their participations in these activities. Faculty members who are desirous of pursuing their doctoral research are given study leave. College bears the registration fee to be paid to attend the national/international conference(s) to present their research papers in the conference(s). College also pays applicable TA / DA for the same. For attending international Conferences abroad, college has defined policy.

Non-teaching staff members are also encouraged to enhance their qualifications and to acquire necessary industry training by attending Short Term Training Programmes in the relevant industrial trades.



International Conference ITAC-12



ISTE Approved STTP on Applications of GPU Programming



ISTE Workshop Under MNEICT, MHRD, Govt. of India



Faculty Development Workshop by Applied Maths Dept.



STTP by Electronics Engineering Dept.

6.3.2 What is the outcome of the review of the Performance Appraisal Reports? List the major decisions.

Faculty members submit ‘Annual Performance Report’ at the end of every academic session / year endorsed by respective Heads of the Departments. Faculty members have to highlight all their academic as well as other achievements in their performance reports. Heads and Principal goes through the performance report submitted by each and every faculty member to assess the performance of faculty with respect to different components including his/her teaching methodology contributions in the field other than academics, and capability which leads to over-all academic development of faculty. In fact, as per the pay commission guidelines, the submission of annual performance report was must and was one of the assessing parameters for the internal promotion of faculty under Career Advancement Scheme (CAS) to different grades.

6.3.3 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

College has started ‘Group Insurance Scheme’ from the very inception of the college. All regular and permanent teaching and non-teaching staff members are covered under this scheme.

In order to meet the medical emergency faced by any of its staff members college has insured all teaching and non teaching staff members under ‘Mediclaim Policy’ for Rs. 3 lakh per family having tie-up with ICICI Lombard Insurance Company. The entire premium amount to be paid to insure the staff is borne by the college.

Besides these, teaching and non teaching Staff members are the members of NYSS Employees Credit Cooperative Society. It serves the

interest of the staff by offering them loan to the extent of 5 lakhs and emergency loan of Rs.1 Lakh.

Management provide concession in fees to the wards of employees studying in the schools / colleges run by the trust.

6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty?

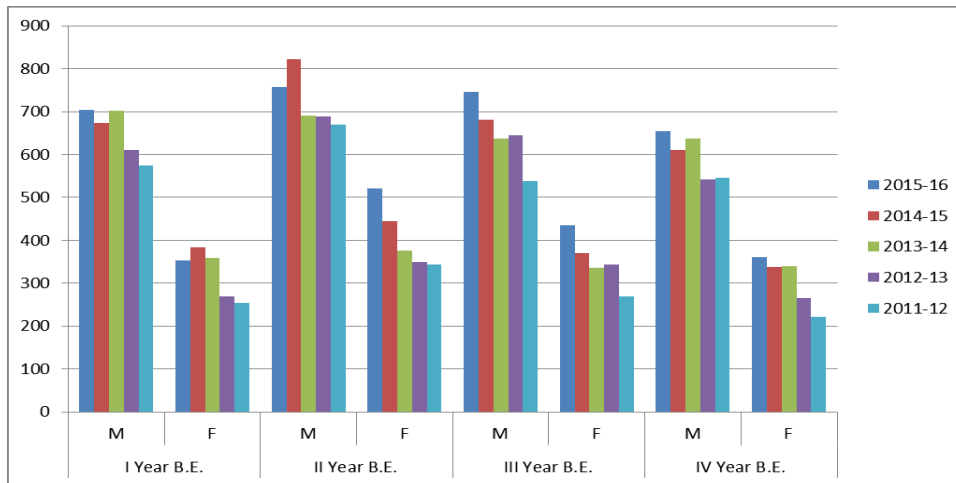
In order to attract and retain eminent faculty college offers higher salaries to the suitable and deserving candidates. In fact there is special mention of this college policy in the advertisement itself published for recruitment of faculty. As mentioned earlier college offers various financial and non financial incentives for academic growth. All these measures have attracted highly qualified and competent faculty with PhDs and many pursuing their PhDs. Attrition is minimum. In fact, college has a very healthy faculty retention ratio.

6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.

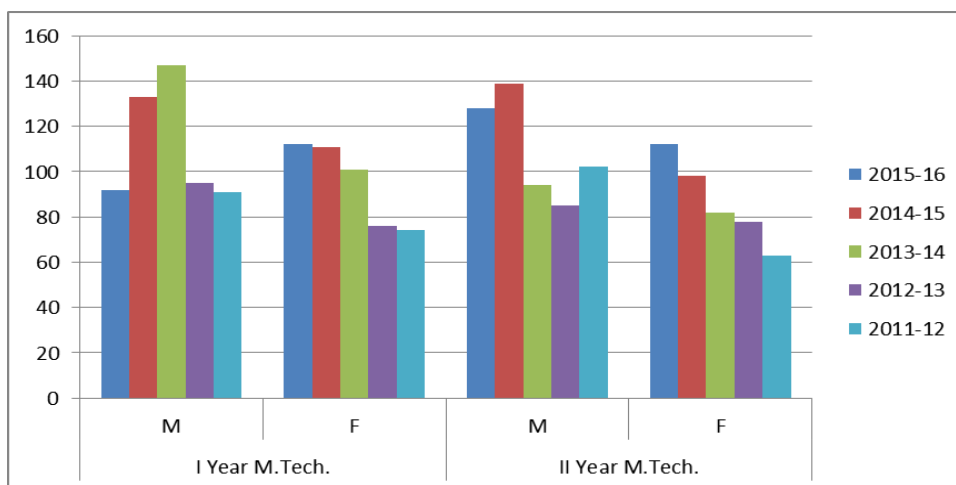
College prepares and maintains the record of boys and girls students admitted every year in various UG and PG programmes offered by the college. Year-wise details are as under:

Details of boys and girls studying in UG and PG for last five years are as under:

UG Programmes												
Year	I Year B.E.			II Year B.E.			III Year B.E.			IV Year B.E.		
	M	F	Total	M	F	Total	M	F	Total	M	F	Total
2015-16	704	353	1057	757	521	1278	745	435	1180	655	361	1016
2014-15	673	384	1057	823	444	1267	681	371	1052	611	337	948
2013-14	702	358	1060	690	375	1065	638	335	973	638	340	978
2012-13	610	269	879	689	349	1038	645	343	988	542	266	808
2011-12	574	254	828	669	344	1013	537	270	807	545	221	766



PG Programmes						
Year	I Year M.Tech.			II Year M.Tech.		
	M	F	Total	M	F	Total
2015-16	92	112	204	128	112	240
2014-15	133	111	244	139	98	237
2013-14	147	101	248	94	82	176
2012-13	95	76	171	85	78	163
2011-12	91	74	165	102	63	165



6.3.6 Does the College conduct any gender sensitization programs for its staff?

College gives utmost priority to the perseverance and maintenance of dignity, respect and safety of girls students, ladies faculty members and ladies non teaching staff members on the campus. College has constituted a committee and mechanism resolve the issues of harassment cases received. College has constituted a permanent cell against sexual harassment and gender violation. This committee which looks after these cases comprises of following:

Sexual Harassment Redressal Committee		
Name of the Member	Department	Designation
Dr. Ms. Ujwalla Gawande	Information Tech.	Chairman
Dr. S.R. Khandeshwar	Civil Engg.	Member
Dr. Mrs. S.P. Adhau	Electrical Engg.	Member
Mrs. Archana Vaidya	NGO Nominee	Member
Mr. Prakash V. Gawande	NGO Nominee	Member

6.3.7 What is the impact of the University's UGC-Academic Staff College Programmes in enhancing competencies of the College faculty?

Internal promotions to various grades under 'Career Advancement Scheme (CAS) were earlier linked up with completion of the stipulated number of orientation programs / Courses, staff college programmes organized by UGC or University Academic Staff College, PG departments, Short Term Training Programmes (STTP) organized either by AICTE or ISTE or self sponsored STTP courses by any Engineering and Technology Institute which is being approved by AICTE.

As per the pay commission's guidelines it is mandatory for a teacher to complete stipulated weeks duration academic staff college programmes or orientation courses or STTP courses approved by AICTE or UGC to move from lower grade to higher grade.

Thus, many faculty members in the past have attended these courses not only to enhance their academic competencies but also to move ahead on the career ladder by way of securing career advancements through CAS. Certainly there is an improvement in competencies in academic as well as behavioral change by attending these programmes.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of financial resources?

The college is not entitled to receive any salary grant / funding either from the state government or from the central government as being a self financed institute. The college receives funding for sanctioned research projects from various funding agencies like UGC, AICTE, and DST etc. Necessary corpus to meet entire expenses to be incurred in a financial year has to be generated through the tuition fees collected from the students enrolled.

All the admissions are done in various UG and PG Programmes strictly on the basis of merit only through Centralized Admission Process of DTE, Maharashtra. The way of revenue generation is through the tuition fees collected from the students admitted. Thus, appropriate financial planning along with proper utilization of financial resources is of utmost importance for our college.

For appropriate and proper utilization of financial resources, college authorities invite budget proposals from departments, along with estimated cost of expenditure to be incurred in an academic year with regards to i) lab expansion, ii) procurement of equipments iii) creation of additional infrastructure iv) new courses to be started v) procurement of additional books in the library and subscription for periodicals, journals, e- journals, etc. vi) additional staff requirements, if any, vii) purchases of computers, softwares and their accessories viii) recurring expenses on consumables and for other miscellaneous heads ix) funds for pursuing R & D activities, x) students projects etc. These proposals are classified under different heads like capital expenditure, maintenance expenditure, R & D expenditure and funds required for future growth.

To make various purchases like instruments, computers, machines, library books, journals, etc. college has well defined purchase procedure. All the procurements are done with most competitive prices without compromising for requisite quality and desired specifications.

Departments have to submit their respective budget statements to Purchase Committee (PC) for approval. Purchase Committee invites the concerned HoDs / Functional Heads along with the concerned documents to justify various proposals submitted by that department and provisions made in the budget. Purchase Committee with due recommendation submit it to Finance committee, which is further recommended to Board of Management for approval. Board of Management gives consent for the final draft of the budget submitted by the finance committee to initiate implementation of budget proposal.

Procurement as per all the finalized and sanctioned budgets of the different teaching and functional departments is done centrally by purchase department.

Finance committee take the half-yearly review of the funds available, expected cash flow and revenue generated through tuition fees collection. Any short fall can be met either from the contingency fund or external sources (such as loans) or reserve corpus if available with the college. The proposal of fixation of fee structure is submitted to 'Shikshan Shulka Samiti' set up by Directorate of Higher and Technical Education, Government of Maharashtra.

6.4.2 Does the College have a mechanism for internal and external audit? Give details.

There is a provision for internal as well external audit of the 'College Accounts'. College has made provision to carry out quarterly internal audits of the college financial accounts. External audit is being carried out by the appointed external auditors. Statutory audits are done by M/S V. K. Surana & Co. and M/S A. A. Solao & Co. has been appointed as external auditor.

6.4.3 Provide audited income and expenditure statement of academic and administrative activities of the previous four years.

Audited Income & Expenditure Statement (2014-2015)

A. A. SOLAO & CO.
CHARTERED ACCOUNTANTS

PHONE : 6618733
HOUSE 61,
CENTRAL BAZAR ROAD,
BAJAJ NAGAR,
NAGPUR - 440010

AUDITORS REPORT

We have audited the attached BALANCE - SHEET of YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING (COLLEGE CONSOLIDATED), NAGPUR DIST : NAGPUR Managed by NAGAR YUWAK SHIKSHAN SANSTHA, NAGPUR as on 31st March 2015, and also the INCOME AND EXPENDITURE ACCOUNT. Annexed thereof for the year ending on that date and report that :

- 1] We have obtained all the information and explanations which to the best of our knowledge and belief are necessary, for the purpose of audit.
- 2] Proper books of account as required by law have been kept.
- 3] The BALANCE SHEET and INCOME & EXPENDITURE ACCOUNT referred to in this report are in agreement with the books of accounts.
- 4] In our opinion and to the best of our information & according to the explanation give to us, the said Financial Accounts give a true and fair view.
 - a] In so far as it relates to BALANCE SHEET of the state of affairs of the College as on 31st March 2015.
 - b] In case of INCOME & EXPENDITURE Account of EXCESS OF INCOME OVER EXPENDITURE for the year ended on 31st March 2015.

NAGPUR
DATE : 15/05/2015

FOR A. A. SOLAO & CO.
CHARTERED ACCOUNTANTS

PROPRIETOR
(M.NO.016466)

SEAL

PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wansongri, Hingna Road,
NAGPUR - 441110

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING - NAGPUR (COLLEGE CONSOLIDATED)
MANAGED BY :- NAGAR YUVAK SHIKSHAN SANSTHA - NAGPUR
BALANCE SHEET AS ON 31ST MARCH 2015

FUNDS & LIABILITIES	AMOUNT	PROPERTY & ASSETS	AMOUNT
FUNDS A/c (ANN'DD)	607,969,617.85	IMMOVABLE & MOVABLE PROPERTIES (ANN'DD)	515,519,925.33
SUNDRY LIABILITIES (ANN'DD)		OTHER DEBIT BALANCES (ANN'DD)	
Students	55,892,779.00	Other Liabilities	30,844,282.00
University	255,591.00	Student	89,233,937.00
Staff Liabilities	602,471.00		
Other Liabilities	2,895,191.00		
Caution money Deposit	32,972,884.00		
	92,618,916.00		
PROVISIONS (ANN'DD)	90,705,378.20	DEPOSIT & INVESTMENTS (ANN'DD)	5,854,643.00
SUNDRY CREDITORS (ANN'DD)	7,966,410.00	PROVISION (ANN'DD)	2,093,500.00
		SUNDRY DEBTORS (ANN'DD)	1,106,571.62
LOANS & ADVANCES		LOANS & ADVANCES	
Ahhudaya Co-Op Bank Ltd	43,380,479.00	Nagar Yuvak Shikshan Sanstha, Nagpur	214,532,852.80
Loan from Govt of Maharashtra	37,732,445.00		
Shikshak Sahakar Bank Ltd	3,872,934.00		
	84,985,858.00	CLOSING BALANCE (ANN'DD)	17,660,408.30
TOTAL RS.	884,246,120.05	TOTAL RS.	884,246,120.05

DATE: 15/05/2015



AS PER OUR REPORTS OF EVEN DATE
 FOR M. S. LAD & CO.
 CHARTERED ACCOUNTANT
 PROPRIETOR
 (M.No. 016465)



PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wadongri, Hingna Road,
 NAGPUR - 441110

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING - NAGPUR [COLLEGE CONSOLIDATED]
MANAGED BY :- NAGARJODHAK SHIKSHAN SAUSHTHA - NAGPUR
CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31ST MARCH 2015

EXPENDITURE		AMOUNT	INCOME		AMOUNT
TO, EDUCATIONAL EXPENDITURE			BY, INCOME (ANN'A)		
SALARIES & ALLOWANCES (ANN'B)	320,507,374.00		FEES AND FINES	521,169,803.00	
CONTINGENCIES (ANN'C)	91,167,043.51		OTHER INCOME	14,860,719.50	536,030,522.50
INTEREST PAID ON TEQIP LOAN	3,766,772.00				
FINANCIAL EXPENSES (ANN'D)	11,275,148.00	426,716,337.51			
TO, DEPRECIATION (ANN'AA')		23,709,555.00			
TO, TRANSFER TO BUILDING FUND		70,800,000.00			
BY, EXCESS OF INCOME OVER EXPENDITURE (Carried Over to Society A/C)		15,604,629.99			
TOTAL RS.		536,030,522.50	TOTAL RS.		536,030,522.50

NAGPUR
 DATE - 15/05/2015

AS PER OUR REPORTS OF EVEN DATE
 FOR A. SOLAD & CO.
 CHARTERED ACCOUNTANT



[Signature]
 PROPRIETOR
 [M.No.016466]



[Signature]
PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wanadongri, Hingna Road,
 NAGPUR - 441110

Audited Income & Expenditure Statement (2013-2014)

A. A. SOLAO & CO.
CHARTERED ACCOUNTANTS

PHONE : 6618733
HOUSE 61,
CENTRAL BAZAR ROAD,
BAJAJ NAGAR,
NAGPUR - 440010

A U D I T O R S R E P O R T

We have audited the attached CONSOLIDATED BALANCE - SHEET of YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, NAGPUR DIST: NAGPUR Managed by NAGAR YUWAK SHIKSHAN SANSTHA, NAGPUR as on 31st March 2014. and also the CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT. Annexed thereof for the year ending on that date and report that;

- 1] We have obtained all the information and explanations which to the best of our knowledge and belief are necessary, for the purpose of audit.
- 2] Proper books of account as required by law have been kept.
- 3] The BALANCE SHEET and INCOME & EXPENDITURE ACCOUNT referred to in this report are in agreement with the books of accounts.
- 4] In our opinion and to the best of our information & according to the explanation give to us, the said Financial Accounts give a true and fair view.
 - a] In so far as it relates to BALANCE SHEET of the state of affairs of the College as on 31st March 2014.
 - b] In case of INCOME & EXPENDITURE Account of EXCESS OF INCOME OVER EXPENDITURE for the year ended on 31st March 2014.

NAGPUR
DATE: 10/05/2014



FOR A. A. SOLAO & CO.
CHARTERED ACCOUNTANT

[Signature]
PROPRIETOR



[Signature]
PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Ringna Road,
NAGPUR - 441110

**YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING - NAGPUR [COLLEGE CONSOLIDATED]
 MANAGED BY :- NAGAR YUWAK SHIKSHAN SANSTHA - NAGPUR
 CONSOLIDATED BALANCE SHEET
 AS ON 31ST MARCH -2014**

FUNDS & LIABILITIES		AMOUNT	PROPERTY & ASSETS		AMOUNT
FUNDS A/c. (ANN'DD')		664,968,401.85	(IMMOVABLE & MOVABLE PROPERTIES (ANN'DD'))		491,982,487.91
SUNDRY LIABILITIES (ANN'DD')			OTHER DEBIT BALANCES (ANN'DD')		
Students	69,926,416.00		University	5,402.00	
University	2,850,547.00		Other Liabilities	13,764,798.00	
Staff Liabilities	1,211,847.00		Student	56,163,967.00	69,934,167.00
Other Liabilities	4,478,481.50	97,246,697.50			
Caution money Deposit	27,779,316.00				
PROVISION (ANN'DD')		88,323,710.00	DEPOSIT & INVESTMENTS (ANN'DD')		6,475,586.00
SUNDRY CREDITORS (ANN'DD')		9,261,598.00	PROVISION (ANN'DD')		1,195,507.00
CREDIT BALANCE OF BANKS			SUNDRY DEBITORS (ANN'DD')		1,239,204.62
TUCB A/c. No.130	6,112,338.56		LOANS & ADVANCES		
TUCB A/c. No.2137	2,080,401.00	8,192,739.56	Nagar Yuwak Shikshan Sanstha, Nagpur		210,213,960.21
LOANS & ADVANCES			CLOSING BALANCE (ANN'DD')		11,742,708.37
Abhudaya Co. Op. Bank	76,621,501.00				
Loan from Maharashtra Govt.	43,507,445.00	124,794,692.00			
Shikshak Sahakari Bank Ltd.	6,665,746.00				
TOTAL RS.		792,787,708.91	TOTAL RS.		792,787,708.91



AS PER OUR REPORTS OF EVEN DATE

FURNISHED & CO.
 CHARTERED ACCOUNTANTS

PROPRIETOR

NAGPUR
 DATE: 10/05/2014



PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wanadongri, Hingna Road,
 NAGPUR - 441110

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING - NAGPUR (COLLEGE CONSOLIDATED)
MANAGED BY :- NAGAR YUVAK SHIKSHAN SANSTHA - NAGPUR
CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31ST MARCH 2014

EXPENDITURE		AMOUNT	INCOME		AMOUNT
TO, EDUCATION EXPENDITURE			BY, INCOME :- (ANN'A)		
SALARIES & ALLOWANCE (ANN'B)	280,439,879.00		FEES AND FINES	459,376,943.00	
CONTINGENCIES (ANN'C)	133,020,022.24		OTHER INCOME	8,567,771.60	467,944,714.60
FINANCIAL EXPENSES (ANN'D)	17,307,324.00				
INTEREST PAID ON EQUIP LOAN	4,108,586.00	434,875,813.24			
TO, DEPRECIATION (ANN'AA)		28,639,465.00			
TO, EXCESS OF INCOME OVER EXPENDITURE (Carried Over to Society A/c)		4,429,436.36			
TOTAL RS.		487,944,714.60	TOTAL RS.		467,944,714.60

NAGPUR
 DATE - 10/25/2014

AS PER OUR REPORTS OF EVEN DATE



FOR S. SOLAD & CO
 CHARTERED ACCOUNTANTS

(Signature)
 S. SOLAD & CO



(Signature)
PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wanadongri, Hingna Road,
 NAGPUR - 441110

Audited Income & Expenditure Statement (2012-2013)

A. A. SOLAO & CO.
CHARTERED ACCOUNTANTS

PHONE : 6618733
HOUSE 61,
CENTRAL BAZAR ROAD,
BAJAJ NAGAR,
NAGPUR - 440010

AUDITORS REPORT

We have audited the attached CONSOLIDATED BALANCE - SHEET of YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, NAGPUR DIST: NAGPUR Managed by NAGAR YUWAK SHIKSHAN SANSTHA, NAGPUR as on 31st March 2013. and also the CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT. Annexed thereof for the year ending on that date and report that;

- 1] We have obtained all the information and explanations which to the best of our knowledge and belief are necessary, for the purpose of audit.
- 2] Proper books of account as required by law have been kept.
- 3] The BALANCE SHEET and INCOME & EXPENDITURE ACCOUNT referred to in this report are in agreement with the books of accounts.
- 4] In our opinion and to the best of our information & according to the explanation give to us, the said Financial Accounts give a true and fair view.
 - a] In so far as it relates to BALANCE SHEET of the state of affairs of the College as on 31st March 2013.
 - b] In case of INCOME & EXPENDITURE Account of EXCESS OF INCOME OVER EXPENDITURE for the year ended on 31st March 2013.

NAGPUR
DATE : 10/05/2013



FOR A. A. SOLAO & CO.
CHARTERED ACCOUNTANT

PROPRIETOR



PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

YASHWANTRAO CHAVAN COLLEGE OF ENGINEERING - NAGPUR (PCCET) - (AM, TR & PTDC)					
MANAGED BY :- SAGAR YADAV SHIKSHAN SANSTHA - NAGPUR					
CONSOLIDATED BALANCE SHEET AS ON 31ST MARCH 2013					
FUNDS & LIABILITIES		AMOUNT	PROPERTY & ASSETS		
				AMOUNT	
FUNDS (AMOUNT)		396,757,261.28	IMMOVABLE & MOVABLE PROPERTIES (AMOUNT)		471,690,507.34
SUBSIDIES (AMOUNT)			OTHER DEBT BALANCES (AMOUNT)		
Students	71,31,734.00		University	18,522.00	
University	2,513,324.00		Other Institutes	912,879.00	
State Institutes	1,396,063.60		Student	122,296,372.00	
Other Institutes	3,656,687.01		Staff advances	558,142.00	
Central money Deposit	21,079,316.00	100,841,127.63		123,779,315.00	
PROVISION (AMOUNT)		37,603,786.30	DEPOSIT & INVESTMENTS (AMOUNT)		4,526,487.00
SUNDRY CREDITORS (AMOUNT)		15,343,643.00	PROVISION (AMOUNT)		2,02,841.00
CREDIT BALANCE OF BANKS			SUNDRY DEBTORS (AMOUNT)		749,007.63
TUCB A/c. No.130	3,225,017.56		LOANS & ADVANCES		
TUCB A/c. No.2137	164,330.00	3,389,355.56	MSS		105,119,895.42
LOANS & ADVANCES			CLOSING BALANCE - (AMOUNT)		9,362,449.62
Allahabad Co. Op. Bank	102,894,456.00				
Loan from Maharashtra Govt.	45,382,445.00	161,245,744.00			
Shiksha Sahakar Bank Ltd.	9,958,945.00				
TOTAL RS.		717,244,262.80	TOTAL RS.		717,244,262.80

NAGPUR
DATE: 30/03/2013



AS PER OUR REPORTS OF EVEN DATE
FOR A.S. JOSHI & CO.
CHARTERED ACCOUNTANT
PROPRIETOR



PRINCIPAL
Yashwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING - NAGPUR (DEPT. OF TECHNICAL)					
MANAGED BY :- NAGAR YUVAK SHIKSHAN SANSTHA - NAGPUR					
CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH 2012					
EXPENDITURE		AMOUNT	INCOME		AMOUNT
TO:	EDUCATION EXPENDITURE		BY:	(INCOME - I) ANNUAL FEES 'A'	
	SALARIES & ALLOWANCES (ANNEXURE 'B')	261,236,210.00		TUITION FEES & OTHER FEES	43,519,725.00
	CONTINGENCIES (ANNEXURE 'C')	77,65,802.75		OTHER INCOME	5,684,776.25
	INTEREST PAID ON TFCIP LOAN	10,91,040.00			
	FINANCIAL EXPENSES (ANNEXURE 'D')	27,70,432.86			
		377,503,485.61			
TO:	DEPRECIATION (ANNEXURE 'E')	30,694,408.00			
	EXCESS OF INCOME OVER EXPENDITURE (Transfer to Surplus A/c)	14,881,675.57			
	TOTAL RS.	417,297,893.61		TOTAL RS.	417,297,893.61



AS PER OUR REPORTS OF EVERY DATE
FOR A. S. S. & CO.
CHARTERED ACCOUNTANTS
NAGPUR
27/03/12

NAGPUR
DATE: 20/03/2012



PRINCIPAL
Yeshwant Rao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

Audited Income & Expenditure Statement (2011-2012)

A. A. SOLAO & CO.
CHARTERED ACCOUNTANTS

PHONE : 6618733
HOUSE 61,
CENTRAL BAZAR ROAD,
BAJAJ NAGAR,
NAGPUR - 440010

AUDITORS REPORT

We have audited the attached CONSOLIDATED BALANCE - SHEET of YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, NAGPUR DIST: NAGPUR Managed by NAGAR YUWAK SHIKSHAN SANSTHA, NAGPUR as on 31st March 2012, and also the INCOME AND EXPENDITURE ACCOUNT, Annexed thereof for the year ending on that date and report that;

- 1] We have obtained all the information and explanations which to the best of our knowledge and belief are necessary, for the purpose of audit.
- 2] Proper books of account as required by law have been kept.
- 3] The BALANCE SHEET and INCOME & EXPENDITURE ACCOUNT referred to in this report are in agreement with the books of accounts.
- 4] In our opinion and to the best of our information & according to the explanation give to us, the said Financial Accounts give a true and fair view.
 - a] In so far as it relates to BALANCE SHEET of the state of affairs of the College as on 31st March 2012.
 - b] In case of INCOME & EXPENDITURE Account of EXCESS OF INCOME OVER EXPENDITURE for the year ended on 31st March 2012.

NAGPUR
DATE : 10/05/2012



FOR A. A. SOLAO & CO.
CHARTERED ACCOUNTANT

[Signature]
PROPRIETOR



[Signature]
PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING - NAGPUR
 MANAGED BY - NAGAR YUVAK SHIKSHAN SAMITHI - NAGPUR
 CONSOLIDATED BALANCE SHEET AS ON 31ST MARCH, 2012

LIABILITIES		AMOUNT	PROPERTY & ASSETS		AMOUNT
CURRENT LIABILITIES (ANNEXURE "BB")		366,700,757.61	IMMOVABLE & MOVABLE PROPERTIES (ANNEXURE "AA")		437,629,576.56
STAFF LIABILITIES (ANNEXURE "DD")			DEPOSIT & INVESTMENTS (ANNEXURE "CC")		3,192,476.00
Students	38,252,721.00		OTHER DEBIT BALANCES (ANNEXURE "DD")		
University	1,108,782.00		University	34,442.00	
Staff Liabilities	243,341.00		Other Liabilities	400,500.00	
Other Liabilities	16,047,298.98	55,653,142.98	Student	54,764,795.00	
			Staff Liabilities	605,819.40	55,605,956.40
PROVISION (ANNEXURE "EE")		31,533,123.80	PROVISION (ANNEXURE "EE")		726,714.00
SUNDRY CREDITORS (ANNEXURE "GG")		7,147,237.00	SUNDRY DEBTORS (ANNEXURE "GG")		4,050,252.00
LOANS & ADVANCES			LOANS & ADVANCES		
Abhodya Co Op bank	170,102,603.00		NYS	186,307,325.00	
Loan from Maharashtra Govt.	49,057,445.00		CLOSING BALANCE (ANNEXURE "FF")		3,609,617.71
Shikshak Sahakari Bank Ltd.	11,127,214.00	230,287,262.00			
TOTAL RS..		691,371,522.79	TOTAL RS..		691,371,522.79

AS PER OUR REPORTS OF EVEN DATE

NAGPUR
 DATE : 10/05/2012



PRINCIPAL
 Yeshwantarao Chavan
 College of Engineering
 Wana Dongri, Hingna Road,
 NAGPUR - 441110



PURA & CO
 CHARTERED ACCOUNTANTS

PROPRIETOR

MANAGED BY - BHAGIRATHJI SHIRDIAN SARJITHA - NAGPUR
 CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH 2012

EXPENDITURE	AMOUNT	INCOME	AMOUNT
EDUCATION EXPENDITURE (UNDERPENDING)		INCOME (ANNEXURE "A")	
SALARIES & ALLOWANCE	210,288,977.50	FEES AND FINES	361,731,864.00
CONTINGENCIES	93,764,722.43	OTHER INCOME	10,040,066.48
INTEREST PAID ON TEQIP LOAN	7,118,769.00		
FINANCIAL CHARGES	26,582,680.00		
	338,155,148.93		
DEPRECIATION (ANNEXURE "B")	24,165,227.00		
EXCESS OF INCOME OVER EXPENDITURE (Carried Over to Society A/c)	9,451,514.55		
TOTAL RS.	371,771,890.48	TOTAL RS.	371,771,890.48

AS PER OUR REPORTS OF EVEN DATE



FOR A.S. SOLI & CO.
 CHARTERED ACCOUNTANT

PROPRIETOR

NAGPUR

DA. E. - 12/05/2012



PRINCIPAL
 Yashwantrao Chavan
 College of Engineering
 Wanadongri, Hingna Road,
 NAGPUR - 441110

6.4.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?

College accounts are audited regularly by Internal Auditor as well as by External Auditors. Internal Audit of the college accounts is being done quarterly by Internal Auditor appointed by the college. With regards to audit of the college accounts and balance sheet is concerned no audit objections are raised so far.

6.4.5 Narrate the efforts taken by the College for resource mobilization.

This college runs permanently on no grant basis and the college does not receive any financial assistance either from Government of India or Government of Maharashtra to meet either planned or non planned expenditure incurred every year. The only source of resource mobilization or generation of necessary financial corpus is through the collection of tuition fees from the students admitted for various UG and PG programmes offered by the college. In case of any financial contingency or shortfall in the cash flow or funds available, it is met either through Management support or external sources viz, loans.

Faculty members are also encouraged to prepare their research projects and submit the same to various funding agencies like AICTE, UGC, DST, BARC etc. The entire project fund sanctioned is utilized for the project work only.

Also, college generates/mobilizes additional revenue from various consultancy projects undertaken by different departments and by way of providing infrastructural facilities to different government agencies to conduct various competitive examinations.

The proposal of revision of fee structure for UG or PG programme, applicable only to new admissions has to be submitted to 'Shikshan Shulka Samiti' constituted by Director of Technical Education, Govt. of Maharashtra.

6.4.6 Is there any provision for the College to maintain the 'corpus fund'? If yes, give details.

No specific provision is made to maintain corpus fund. 40% of the student fee is paid by social welfare department of Maharashtra state, which is delayed and is received periodically from the month October onwards. Funds are usually utilized almost immediately after receipt from social welfare department.

6.5 Internal Quality Assurance System

6.5.1 Does the College conduct an academic audit of its departments? If yes, give details.

All teaching departments prepare complete and updated departmental documents / records for academic audit. This audit is referred as ‘Department Level Assessment’ (DLA). This assessment is carried as Qualitative assessment and Quantitative assessment on various parameters. Quantitative assessment parameters are Introspection and Growth Plan, Faculty, Students and Teaching Learning Process. Qualitative assessment parameters Introspection and Growth Plan, Mission & Vision of the department, Programme Educational Objectives (PEOs), Programme Outcomes (POs), Faculty, Students and Teaching Learning Process, R&D and Industrial Interactions and Best Practices.

6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?

Based on the DLA Committee Report, the suggestions given are circulated to concerned departments to act on it and take necessary steps for improvement. The specific measures taken in past are creation of e-classroom and e-resources, extensive use of e-resources, continuous & transparent evaluation, difficult subjects teaching by experienced faculty members, faculty advisor scheme, industrial visits, seminars etc. This periodic exercise of academic audit facilitates to improve the existing teaching, learning and evaluation methodology.

6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- College has set up well defined process to continuously review the teaching learning. College has constituted statutory academic bodies, Board of studies and Academic council, to formulate, implement, review and modify if necessary academic policies of the college.
- College has also constituted academic cell headed by Dean (Academic Matters) to frame academic policy and monitor the academic calendar for all the UG and PG programmes offered by the college. Dean (Academic Matters) is also ex-officio secretary of apex academic council of the college under autonomous status.
- Office of Dean (Academic Matters) also ensures the meticulous implementation of academic policies / decisions taken and

approved by Academic Council from time to time with strict observance of all the norms set.

- Dean (Academic Matters) in consultation with the Principal circulates the academic guidelines and calendar to all teaching departments for follow up actions. Academic calendar for different UG and PG programmes includes i) Teaching schedule ii) Examination schedule iii) Schedule for continuous assessment iv) Parent-Teacher Meet v) students' feedback duration vi) Schedule for showing evaluated Answer sheets vii) Schedule for submitting Examination related grievances and viii) Break, Results and college reopening schedules.
- Dean (Academic Matters) constantly coordinates with all the teaching departments with regards to academics as action on the campus of which teaching and learning processes are inseparable constituents. This facilitates to know strength of teaching and learning methodologies. Accordingly, efforts can be made to bring out necessary changes to make it as perfect as possible.

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

To establish the standards in academics as well as in administration which are complimentary to each other; it is essential to monitor continuously their functioning. To achieve this objective internal quality assessment cell has been set up. Main objectives and goals to establish IQAC are i) to develop a quality system for conscious and consistent action to improve the academic and administrative performance of the college, ii) to promote measures for institutional functioning towards quality enhancement through quality culture and practices. To serve these objectives college has constituted IQAC.

Internal Quality Assurance Cell		
Name	Department	Designation
Dr. R.D. Thakare	Electronics Engg.	Chairman
Prof. R.D. Dighade	Civil Engg.	Member
Dr. Mrs. N.M. Limaye	Chemistry	Member

6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

College has constituted IQAC in the recent past and at present there is no external member on committee. College is planning to induct one or two external members on committees.

6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

College has constituted IQAC recently. Thus, formal study on incremental academic growth of students from disadvantageous sections of the society to be carried out by IQAC could not be done. Also, administrative section of the college keeps a track and maintains all the relevant records of the students admitted from the disadvantaged section of society at entry level and their subsequent progression to higher classes. However, in near future, college intends to undertake study of incremental academic growth of this section's students through IQAC on regular basis.

6.5.7 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?

All the Teaching departments and functional heads' offices set up a specific target in the beginning of the academic session to achieve the quality objectives.

Progress made by various academic departments to achieve these targets is reviewed periodically. Based on the suggestions received, suitable corrective actions are initiated to avoid the recurrence of the non conformities.

Academic guidelines for all under graduate and post graduate programmes are specified at the beginning of every academic session by Dean (Academic Matters) in consultation with the Principal and Heads of the Departments in accordance with the guidelines given by college apex body – Academics Council.

All the concerned departments which offer these programmes are required to follow the suggested rules and regulations spelled out in the academics guidelines. Academic policy is reviewed periodically / session wise and amendments if any or suggestions are incorporated in the original draft, of course, after approval from competent academic body.

Criteria VII: Innovation and best Practices

7.1 Environment Consciousness

7.1.1 Does the College conduct a Green Audit of its campus?

College has not formally conducted any 'green Audit' of the college campus. However, various activities undertaken by 'Maintenance Department' of the college from time to time in consultation with horticulture experts that lead to increase in the green cover on the college campus year after year tantamount to a part of Green Audit Exercise only. Different activities undertaken by this department to increase this green cover on the campus are:

1. Maintainance and protection of existing trees on the campus.
2. Proper planning and schedule of saplings plantation.
3. Proper selection of various types of saplings to be planted for control of temperature, cleaning environment, attracting birds.
4. Efforts to be taken for their maintenance and development from aesthetic point of view.
5. Focus on life span and mode of growth of the saplings planted.
6. Selection of appropriate fertilizers and insecticides required for their proper growth.
7. To make available manpower required for the maintenance and development of saplings planted.
8. Budget to be provided and record of expenditure incurred to undertake these activities.
9. Special care of plants during summers.

In fact, until 1986, the hill on which college campus is situated and is spread over on an area of about 14 acres; was a hilly bald rocky terrain without any greenery. College authorities have taken sustained efforts in leveling this rocky terrain to maximum possible extent and subsequently filling it with cultivating soil. Extensive plantation drive was undertaken on this land by management and college, Care was taken in plantation where in big trees (188), Fruit bearing trees (81), Decorative trees (775) and trees bearing flowers (160) were planted. Large trees planted include Neem, Saptaparni, Eucalyptus (Nilgiri), Pimpal, Gulmohar, Palm, etc. Nearly another 300 saplings procured from reputed nurseries of Telangana state have already been planted or in the process of plantation on the college campus. This is how due to concerted efforts and contribution made by the stakeholders this hilly rocky terrain has been converted into a lush green belt. In fact, for the maintenance of greenery developed on the campus and for its further

beautification college has hired services of experts in horticulture and landscaping. A separate work force has been provided for day to day maintenance of the trees, saplings and flower plants and landscapes developed on the campus. Expenses incurred during last year for plantation growth and maintenance of greenery on the campus is given below:

S.N.	Details	Approx. Expenditure
1	Special type of soil required for horticulture development and gardening, 14 truck loads @ Rs. 3000/- per truck	42000.00
2	Fertilizers + DAP	14000.00
3	265 saplings for plantation	41000.00
4	Preparation of pits for 265 saplings @ Rs. 70/- per pit	18550.00
5	Insecticides	4000.00
6	Labor charges for maintenance	678240.00

1. In fact, College has outsourced entire housekeeping, campus cleaning, gardening and maintenance of greenery work on the campus.
2. Except chemistry departmental laboratory there are no other departmental laboratories in the college wherein there is a possibility of generation of hazardous waste.
3. Chemistry Departmental faculty members take utmost care in designing the practical curriculum in chemistry in such a way that none of the experiments designed and performed by students involve use of hazardous chemicals and generation of hazardous waste.
4. Researchers and their research supervisors are expected to inform the department about
 - Use of hazardous chemicals, if any,
 - Possible generation of hazardous waste during the process of experimentation and
 - Precautionary measures they intend to take to avoid ill effects of these on those who are working in the laboratory and on the surroundings as well.
5. An effective drainage system is there in the laboratory which is sufficient enough to take care of hazardous waste generated, if any, in small quantities. College has also devised a mechanism for the periodic and effective disposal of e-waste generated on the college campus.
6. The college has installed waste water treatment plant in the boys hostel, purified water is used for gardening purposes.

7.1.2 What are the initiatives taken by the College to make the campus eco-friendly?

Energy Conservation:

The college conducted energy audits and the findings resulted in proper energy conservation. Purpose of the energy audit was to ensure the safety of the persons working in the college and to conserve the energy for sustainable development.

The observations and suggestions given by the team were complied for enhancing the safety of the students and conservation of energy.

Use of Renewable Energy:

After receiving autonomy, Electrical Engineering Department introduced new subject Renewable Energy Generation System as a free elective (open elective) with a laboratory. Department also establishes renewable energy laboratory with solar photovoltaic simulator, solar thermal simulator. Department also installed pyranometer, anemometer and wind vane on terrace of the Electrical building to record the daily solar radiation and wind speed. Department received Rs. 12.50 lakhs towards the MODROB grant for advanced drives laboratory to develop maximum power point tracking (MPPT) for Solar photovoltaic system with converter. UG students of the department received best project award by TCS for their Plastic Solar Water Heater. PG student of the department develops solar emulator as a part of her PG project.

Vivekanand Hostel of the college is equipped with solar water heater, which saves the electricity bills. College is planning for installing roof top solar photovoltaic panels at top of administrative building.

Check dam construction: Not Applicable

Efforts for Carbon neutrality: Not Applicable

Water Harvesting:

Rain water coming on Civil Engineering department's roof is collected through PVC pipes and brought at ground level, it is collected in ground storage tank through filter. The water was used for experimentation in Fluid Mechanics Lab., it is also used for gardening purposes.

The college is situated on a hill. Some portion of the rain water goes to a dry well in the campus, it is observed that wells in adjoining village are recharged.

Plantation:

The college buildings were constructed on a originally barren hill at Wanadongri village in Nagpur District. Construction was carried out in phased manner. Tree plantation exercise was carried under supervision of experts. The management overcame the constraints such as non availability of water for growth of trees by bringing water from a distance of 2½ km from the college.

Focus was given on selection of plants such as big trees, medicinal plants, fruit trees, decorative trees. Many uncommon birds are seen in the campus due to the selection of trees. Many tree plantation drives were conducted on the hill. Details of plantation are given below:

	Name	Number	Remarks
A Big Trees			
1	Peepal	03	
2	Baniyan	02	
3	Gulmohar	61	Also a flowery plant
4	Neem	102	Also a medicinal plant
5	Casia/Acacia	17	
6	Karanj	01	Also a medicinal plant
7	Nilgiri	02	Also a medicinal plant
B Fruit Trees			
1	Mango	12	
2	Jamun	02	
3	Lemon	12	
4	Karwand	03	
5	Chickoo	08	
6	Custard Apple	20	
7	Guava	12	
8	Amla	12	Also a medicinal plant
C Decorative			
1	Saptaparni	98	
2	Golden Bamboo	120	
3	Boganveil	123	Also Flowery
4	Royal Palm	14	
5	Ficus	34	
6	Areca Palm	27	

7	Phoenix Palm	08	
8	Fox Tail Palm	45	
9	Vidya	36	
10	Casal Pinea	08	
11	Buddha Bamboo	13	
12	Badam	12	Also Fruit
13	Traveller Palm	13	
14	Ashoka	159	
15	Conacopus	15	
16	Goldan Duranta	50	
D	Fancy Plants (Flowers)		
1	Bakul	62	
2	Tikoma	45	
3	Madhumalti	10	
4	Kanher	35	
5	Champa	08	

Hazardous waste management:

Except Applied Chemistry and Environmental Engineering laboratories there are no other departmental laboratories in the college wherein generation of hazardous waste is possible. Chemistry Department's faculty members have taken utmost care in designing the practical syllabus for 'Applied Chemistry and Environmental Engineering Courses'. The courses are so designed that none of the experiments prescribed in the syllabus and performed by the students involve either use of hazardous chemicals or leads to generation of hazardous waste during actual performance of the experiments. Researchers in these two laboratories are advised to take all precautionary measures to avoid/negate any ill effects of these by using masks, hand gloves, safety glasses, portable fire extinguishers carrying out such experiments under fume chamber etc.

E-Waste Management:

College has devised proper mechanism/methodology for the periodic and effective disposal of e-waste generated from time to time on the campus. In fact, college has formulated a policy of donating the old machines in working conditions to schools and allied institutes rather than dumping these.

7.2 Innovations

7.2.1 Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the College.

Details of innovations introduced during the last four years which have created a positive impact on the functioning of the College.

1. For creating teamwork

MEGHOTSAVA is annual cultural festival of faculty and supporting staff of all institutions in the group. Participation by faculty and staff in this programme has resulted in better bondage among faculty and supporting staff. This has substantially improved work culture in the college. This has helped them to showcase their talents in cultural events.

2. Academic Innovations:

- **Academic Advisory Board**

Formation of Academic Advisory Board consisting of eminent academicians and their guidance has given directions to achieve academic excellence.

- **Wide Circulation of Policies**

Policies created for the benefit of staff and students are widely circulated and are available on intra-net. Staff and students are deriving benefits from them.

- **Visiting Professors**

Eminent Professors from IITs or NITs are invited for guidance, teaching critical topics, interacting with faculty on teaching and research under this scheme. They are expected in departments for couple of days every semester. This has enhanced the knowledge of faculty in regard to global perspectives of industrialization.

- **Focus on difficult to learn subjects**

Each department identifies difficult to learn few subjects or topics in syllabus. Expert faculty from the department teaches these topics in addition to their regular teaching loads. This has improved results of these subjects and interest of students in learning.

- **Moodle based Departmental Website**

All departments have launched departmental websites for uploading course handouts. This is also used for uploading completed assignments by students. This has helped in proper

assessment of assignments, availability of course handouts to all and easy submission of assignment.

- **Financial Assistance to UG/PG Projects**

The college makes budgetary provision for UG/PG projects. Financial assistance is given to students for completing projects. This has resulted in offering high quality innovative projects.

- **Online Teaching of Engineering Graphics**

Engineering drawing has seen major transformation from hand drawing to computer assisted drawings. The Engineering Drawing subject at first year level is now renamed as Engineering Graphics and teaching, assignments and evaluation is done online.

- **Mentoring of Bright Students**

The academically bright students are mentored with the help of alumni for the professional growth. The Mentors help the students to identify the new domains of technology which could be pursued for higher studies or enhanced employability.

3. **Review Mechanisms**

- **Departmental Perspective Plan Presentations**

All HoDs present their Perspective plan for the year, highlighting programmes to be conducted, equipments to be procured and other important aspects of Teaching-Learning Process. The plan is reviewed every year and preventive / corrective actions are proposed for over all development of departments.

- **Department Level Audits**

Department Level Audits are conducted every year to assess performance of each department. This has prompted for improvement in functioning of the departments.

- **Online Feedback**

The shift from manual feedback from the students to online feedback has resulted in quick actions for improvements, as the outcome analysis of feedback is available in less time. Mid-session feedback analysis has helped in improving T-L process.

4. **Faculty Development**

- **Induction Programmes**

Newly joined faculty members are required to attend induction programme at the beginning of new session. This helps in understanding of college processes and accountability.

- **Mentor –Mentee schemes**

Senior faculty members are mentoring new/junior faculty members for teaching various subjects. The scheme has resulted in enhancement of teaching capabilities of new / junior faculty members.

- **Department of Technology Enhanced Learning (DTEL)**

Faculty members are guided to prepare their course ppts, these are validated through experts. This has helped in improvements in course delivery.

- **Co-Guides from other organizations**

Co-guides from reputed institutions, practicing engineers and industry personnel are encouraged. This has resulted in offering more real times and industry oriented UG and PG Projects.

- **Annual Workload Plan**

At the beginning of the year every faculty member is required to submit annual plan consisting of around 30 parameters, which include targets for paper publication, attending FDPs and conferences, carrying out special tasks etc. as per departmental and college targets. This helps in proper planning of academic year by the faculty. Midterm reviews of this are also taken.

- **Parent Teacher Meet**

These are conducted every semester, these help in understanding of expectations of parents from the college and development of rapport between faculty and guardians of students.

5. **Development of Students**

- **PG Mentor Scheme**

Discipline wise expert faculty members from reputed engineering institutions are invited as mentors for PG programmes. Involvement of mentors right from synopsis drafting, guiding during progress seminars and reviewing during pre-submission seminars has resulted in enhancement of quality of PG projects.

- **Interaction with Role Models**

The college provides a platform for interaction of students with role models to inspire them. In the recent past Hon A.P.J. Abdul Kalam, Youngest CEO Mr. Gopinath and eminent author Mr. Chetan Bhagat were invited to interact with the students.

- **Project Competitions / Technical Events**

The college organizes “SPANDAN” the research paper competition, Pratikruti, the Project Competition, ICON, the Project Competition and COMPUFEST, a competition with various software related events every year. Students from institutions throughout India participate in these events. These give opportunities to students to showcase their talents and compare themselves with students from reputed institutions.

- **Campus Recruitment Training (CRT)**

Campus Recruitment Training is a structured programme of 80-120 hours offered after Sixth Semester in the summer break. The programme prepares the students to face campus interviews.

- **Talk in English (TiE)**

Talk in English is a structured programme for improving English communication by the students. Students coming from rural parts have been greatly benefited by this programme.

- **Industry aligned Professional Electives**

The industry interacted with academia to frame the electives for the students on the basis of industrial requirements. The faculty for these courses were mentored by the respective corporate.

- **Free Electives**

To facilitate learning of some core subjects from other disciplines, the college offers ‘Free Electives’ to students. All students are required to offer two free electives at defined level from a list of specific subjects.

- **Summer Term**

In addition to Odd and Even terms, slow learners and detained students can study few courses in the summer term (June-July) every year. This has enhanced the number of students eligible for higher classes.

- **EDP Programmes**

Special Entrepreneurship Development Programmes are organized by the EDP Cell. This has benefited aspiring entrepreneurs.

- **Industrial Tours & Industrial Visits**

The college supports Industrial Tours, Visits to Industrial Exhibitions for understanding industrial practices and developments in respective areas. Industrial visits are conducted to bridge the gaps between curricula and industrial practices.

6. Research & Development

- **Mentoring for Funding Proposal Submission**

The college conducts counseling / guidance sessions for the faculty members to prepare funding proposal. This has resulted in submission of a good number of proposals to funding agencies, getting funds and development of research culture in the college.

7. Supporting Staff

- **Best Employee Award**

The college has started practice of honoring best employee, selected through a defined process. This has improved work culture in the college.

- **Family Picnics**

The college arranges fully sponsored family tours of supporting staff to various places throughout India. Every year one family is selected from each institution in the group. This has improved commitment levels of supporting staff.



Staff Members Performing in MEGHOTSAVA-2013

7.3 Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the College.

Best Practice 1

1. Title of the Practice

Academic Enhancement and Monitoring Practice

2. Objectives of the Practice:

Objective of the practice are listed below

- To enhance interest of students in learning
- To improve teachings quality of faculty members
- To make students and faculty aware about various facets of outcome based education
- To promote self learning habits among the students
- To bridge the curricular gaps through other alternatives
- To ensure availability of students and faculty in the college
- To improve results
- To make faculty and students aware about technological developments in the world
- To review effectiveness of the processes through audits and review meetings
- To make the college a preferred place of learning

3. The Context

The education in engineering colleges is being converted in to outcome based education, there are many challenges which include defining realistic PEOs, POs, COs and devising methodologies for bridging curricular gaps. The teaching-learning process is most important component of engineering education, to which the status and standard of the college is virtually linked. Regularity in engagement of classes, attendance in classes and syllabus coverage are essential requirements of successful T-L process. Mentoring to junior faculty, exposure to education in IITs and NITs, guidance by experts from reputed educational institutions and industries further strengthens confidence and knowledge of students. Use of advanced techniques and innovative methods, effective use of E-learning resources, preparation of subject PPTs and their validation through experts are some of the practices needed to enhance teaching capabilities of faculty members. Identifying training needs of faculty and arranging FDPs or permitting them to attend similar programmes is strongly desired to upgrade education standards.

There is also need to carefully review the implementation of the processes, ensure commitments of all and more importantly whether we are in a position to achieve desired results, review meetings and audits are essential.

4. The Practice

The process begins with drafting and finalization of academic calendar incorporating suggestions by the heads of department. The academic calendar is drafted considering time frame required for actual teaching, examinations, co-curricular and extracurricular activities, preparation leaves etc. To maintain transparency in evaluation special slots for verification of valued answer sheets by students is provided.

The college has brought out extensive reforms in the T-L Process. The college has an Academic Advisory Board consisting of eminent educational personalities who have given right directions to upgrade overall standard of the college. The reforms brought out include:-

Setting up Department of Technology Enhanced Learning (DTEL) wherein PPT's for course delivery are prepared by concerned faculty which are validated through experts. For meaningful industry oriented projects a provision of taking co-guides from reputed institution or industries is made and many such projects are being guided by experts. For UG as well as PG projects sufficient financial assistance is provided by the college. Online test have now become a common feature of the T-L process. More focus is given on difficult to learn subjects wherein the services of good teachers are utilized by teaching some critical topics. Identification of weak students and motivating and guiding them for effective learning has given fruitful results. The evaluation process consists of two Mid Semester Examination each carrying 15 marks and End Semester Examination of 60 marks. The syllabus of a course is divided into 6 units (4 Units for some subjects) where equal weightage is given to all units.

Special facility is given to students to learn some case topics of other disciplines through Free Electives offered at various levels. For all laboratory courses a system of continuous assessment is adopted. Efforts are made to bridge the curricular gaps through guest lectures, industrial visits, value added courses and assignments. The assignments are normally framed in such a way that the students develop habit of self-learning.

Classroom teaching is treated as most important component by the college. Over last few years, the college has developed through enhancement of teaching skills by continuous review and follow ups. Teachers are expected to prepare and organize their lectures sticking to their teaching plans. Handouts are given to all students before starting of the session. Number of classes as stipulated in the teaching plan are engaged by the faculty. In case of emergencies they are required to engage extra classes also. After the class the faculty member is require to enter attendance and topic covered in the MIS

Module developed. The engagement of classes and attendance is closely monitored by HoD's. This data is critically reviewed every month during the meeting of HoD's chaired by the Principal. After every evaluation attainment of CO's is calculated by respective faculty and corrective actions are proposed for subsequent academic session.

The BoS in every department plays a major role related to modification/corrections required in syllabus and selecting examiners for various courses. During last few years, the college has given more emphasis on mentoring. We have a regular system of Mentors for PG programmes, they are the senior faculty members from NIT's and other reputed institution. By adopting Visiting Professor Scheme wherein senior faculty members from IIT's spent couple of days with faculty and students has significantly boosted the research outputs, quality of projects and creation of knowledge banks for effective teaching.

Mentoring of new faculty members by senior faculty members is another important aspect stressed upon. The documentation of mentoring is also kept in well-defined formats. To upgrade the students with beyond curricular topics, special provision is made in teaching plan, other programmes are also organized and more importantly the college is organizing Spandan, the Paper Presentation Competition for last 15 years. Feedback has proven to be a major source for improvement of the process. Students Feedback is taken at Mid and End of Session to overcome lacunas in teaching and other aspects. Parent-Teacher Meet, Feedback from Alumina's, Feedback from Employers and Exit Polls of passing out students are essential part of this process.

Project Quality Assurance Initiative (PQAI) in well-defined process has upgraded quality of UG and PG projects.

Every year the effectiveness of T-L process is verified through department level assessment in well-defined format. The outcome of this is discussed at Management level and directions are given to further improve academic processes. After every academic year we conduct autonomy self-assessment in a well-defined format and many aspects of T-L processes are covered under this assessment and corrective actions are proposed.

The system of academic processes from its initiation to completion with inclusion of reforms, regular reviews and audits have boosted the confidence of all stakeholders and thus we consider not only this as most important practice but also the best practice of the college.

5. Evidence of Success

Faculty development, scheduling, reforms in teaching-learning processes, regular reviews and audits have resulted in improving overall standard of the college. The details are listed below:

- The college is now one of the preferred destination for aspiring students, which can be seen from the admission statistics.
- Overall class attendance, engagements of classes and syllabus converge has substantially improved.
- There is enhancement in organisation of curricular and extracurricular activities for the benefits for the students, paper publication for the students and their participation in competitions organised by reputed institutions have increased.
- Development of faculty members is witnessed through their publications.
- Quality of UG and PG projects have improved, which is seen from performance of students in various competitions.
- Organisation of faculty development programmes has increased and the participation of faculty in these programmes has considerably increased.
- Student's failure rate has gone down.
- More applications for patents and copyrights are being submitted.
- The college is awarded Best Private Engineering College by the ISTE in 2014-15

6. Problems Encountered and Resources Required

For streamlining this practice the major constraint was the requirement of extra hours and days, this constraint was overcome by suitably adjusting time table on Saturdays. Initially the response from students and faculty members was not so encouraging, however in recent times there is substantial improvement. Extensive work was required in developing formats, creating teams for review arranging parent – teacher meetings etc. Funds were required for upgrading MIS software, organizing FDPs and student activities. The office of Dean (Academic Matters) was expanded with inclusion of clerks and computers, all Deans are given separate chambers and supporting staff as per requirements. The college gives special incentives to all functional heads.

7. Notes

Efforts are needed to create right kind of ambience for successful teaching-learning process. Vision and directions of the Management and Principal, coordination among functional heads, commitment shown by faculty members and response from other stake holders is essential in streamlining of the process. Mid-term and end-term reviews and audits in structured form are inseparable parts of efforts to develop and successfully run a process.

Best Practice II

1. Title of the Practice

Administrative Coordination and Review Practice

2. Objective of the Practice

- To streamline the overall administration of the college.
- To delegates specific responsibilities and authorities to competent person in handling administrative responsibilities.
- To give authorities and power to functional heads to enhance their commitment for the development of the college.
- To establish coordinating link among the functional heads to streamline the responsibilities and create teamwork for fostering challenging needs.
- To create special team for execution of additional responsibilities for completion of work in defined time frame.
- To review administration performance and initiate procedure / corrective action for preventing administrative lapse.

3. The Context:

Engineering education needs to be upgraded to match the pace with an advancement of technologies, challenges faced by industry and society. Thus engineering colleges are expected to devote time and resources for the institutional development in addition to teaching and learning. To stay in competition they are also required to be part of accrediting, ranking and other statutory and non statutory processes. The administrative setup, commitment of administrators, coordination among themselves, and greater linkage with academic processes makes the college a distinguished one. Hence the administrative practices in this college are scrupulously followed.

4. The Practices:

In the college, Principal is the overall administration, monitoring the administrative as well as academic processes. R & D being one of the prioritized area is looked after by the Director (R & D). For effective linkage between administration and academic, there is a registrar who is basically from academic side. Special responsibilities are given to Dean (P & D) and Dean (Academic Matter). The original Dean (III) & T & P posts are now upgraded as Director (Training) & Director (Placement) signifies standard of college. For all seven engineering and three basic science department HoDs are looking after the academic as well as administrative works of the departments. The HoD also serves as chair person of BoS, principally looking after academic and examination related issue. In addition to this various

committees and subcommittees like Academic Committee, Exam Committee, Grievance Cell, etc. these are twelve committees and subcommittees under exam section. There are regular meetings with fixed agenda such as HoDs meeting, Departmental meetings and the meetings conducted by Directors and Deans. All important issues are also discussed with the management on regular interval wherein most of functional heads are invited to participate. Through these meetings appropriate steps are taken to avoid any lacuna and enhance the confidence of stakeholders.

5. Evidence of Success :

- The college became autonomous & successfully running the autonomy with full understanding of flexibility and accountability.
- The college has become preferred destination for admission.
- Significant improvement in placement of students in various reputed national and multinational companies.
- MoUs with TCS
- Industry assigned free professional elective courses are offered by Infosys, Pune & Global Logic, Nagpur.
- Best private engineering college award instituted by ISTE received in 2014-2015.
- Since 2003 most of our UG and PG programmes are accredited and re-accredited by NBA.

6. Problem Encountered & Resources:

- The college has adopted a policy of rotation of functional post such as Deans and Heads of Departments sometimes competent person could not be found for specific posts, however this was overcome by the coordination among the functional heads.
- All Deans and Heads are given cabins, computers & supporting staffs for the office work. They are also given special incentives for discharging duties.

Contact Details:

Name of the Principal: **Dr. U.P.Waghe, Principal**

Name of College: **Yeshwantrao Chavan College of Engineering**

Address: **Wanadongri, Hingna Road, Nagpur – 441 110**

City: **Nagpur**, State: **Maharashtra**

Website: www.ycce.edu, Email: principal@ycce.edu

Phone : **+91-7104-242919, 329249, 329250,242623**

Phone (Principal office): **+91-7104-242620,09764996477**

PART-D

EVALUATIVE REPORTS OF THE DEPARTMENTS

D. Evaluative Reports of the Departments

Civil Engineering Department

1. Name of the Department & its year of establishment

- Department of Civil Engineering
- Established in 1984 with intake of 60

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Level	Programme of Study	In Year	Current Intake
UG	B. E. Civil Engg. (Shift I)	1984-85	60
		2010-11	120
		2013-14	180
PG	M. Tech in Structural Engineering	1996	18
		2003-04	25
PG	M. Tech in Environmental Engineering	2010	18
PG	ME by Research	2008	NA
Research	Doctor of Philosophy (Ph.D)	2008	NA

Interdisciplinary courses and departments involved

SN	Interdisciplinary courses	Departments involved
1	Free Electives	All Department
2	Mathematics-III	Mathematics & Humanities
3	Numerical Methods and Statistical Techniques	Mathematics & Humanities

3. Free Electives offered by the departments

SN	Course Name	Departments Involved
1	FE1:Environmental Management	All Other Departments
2	FE1:Building Services	
3	FE 2:Air Pollution & Solid Waste Management	
4	FE 2:Earthquake Engineering	

4. Annual / semester / based credit system

SN	Course	Programme of Study	Credit System
1	UG	B. E. Civil Engineering	Semester based Credit System
2	PG	M. Tech in Structural Engineering	
3	PG	M. Tech in Environmental Engineering	

5. Participation of the department in the courses offered by other departments

- Civil Engineering department faculty conducts the Civil Engineering related courses offered by other departments, also
- The students of Civil Engineering Department register/opt for the free elective courses offered by the other departments.

The details are as indicated in the table:

S N	Interdisciplinary courses		Departments Involved	Semester
	Corse Code	Course Name (Subject)		
1	EL316	FE1: Renewable Energy Generation Systems	Electrical Engineering	VI Sem
	EL317	FE1: Renewable Energy Generation Systems		VI Sem
	EL320	FE1: Applications of Electrical Machines		VI Sem
	EL321	FE1: Applications of Electrical Machines Lab.		VI Sem
2	ET331	FE1: Microcontroller & Embedded Systems	Electronics & Telecommu nication Engineering	VI Sem
	ET332	FE1: Microcontroller & Embedded Systems Lab		VI Sem
	ET333	FE1: Principals of Communication Engineering		VI Sem
	ET334	FE1: Principals of Communication Engineering Lab		VI Sem
	ET411	FE2 : Soft Computing		VI Sem
	ET412	FE2 : Industrial Instrumentation		VI Sem
3	ME315	FE1 : Operations Research Techniques	Mechanical Engineering	VI Sem
	ME316	FE1 : Operations Research Techniques Lab.		VI Sem
	ME317	FE1: Automobile Engineering		VI Sem
	ME318	FE1: Automobile Engineering Lab		VI Sem
	ME429	FE2: Total Quality Management		VII Sem
	ME430	FE2: Reliability Engineering		VII Sem
4	EE320	FE1: Data Acquisition & Signal Conditioning	Electronics Engineering	VI Sem
	EE321	FE1: Data Acquisition & Signal Conditioning Lab.		VI Sem
	EE322	FE1: Microprocessor & Microcontroller		VI Sem
	EE323	FE1: Microprocessor & Microcontroller Laboratory		VI Sem
	EE411	FE2: Fuzzy Logic & Neural Network		VII Sem

	EE429	FE 2 :Basic of Analog and Digital Communication Systems		VII Sem
5	CT326	FE1: SQL / PLSQL	Computer Technology	VI Sem
	CT327	FE1: SQL / PLSQL Laboratory		VI Sem
	CT350	FE1: Linux Operating System		VI Sem
	CT351	FE1: Linux Operating System Laboratory		VI Sem
	CT411	FE2: Multimedia and Animation		VII Sem
	CT412	FE2: Current Trends and Technologies		VII Sem
6	IT322	FE1: Web Technology	Information Technology	VI Sem
	IT323	FE1: Web Technology Lab		VI Sem
	IT408	FE2: Applications of Computer Networking		VII Sem
7	EL412	FE2: Electrical Energy Audit and Safety	Electrical Engineering	VII Sem
	EL413	FE2: Utilisation of Electrical Energy		VII Sem

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

SN	Post	Sanctioned	Filled
1	Professor	5	5
2	Associate Professors	9	9
3	Assistant Professors	27	27
4	Total	41	41

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D. /M.Phil. etc.)

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Prof. H.O. Thakare	M.Tech	Professor	Str. Engg.	31
2	Dr. U.P. Waghe	Ph.D.	Professor	Str. Engg.	29
3	Dr. A.M. Pande	Ph.D.	Professor	Str. Engg.	30
4	Dr. A.V. Patil	Ph.D.	Asso. Prof.	Str. Engg.	29
5	Dr. S.D. Bhole	Ph.D.	Asso. Prof.	Str. Engg.	28
6	Dr. S.R. Khandeshwar	Ph.D.	Professor	Env. Engg.	29
7	Dr. S.V. Ambekar	Ph.D.	Asso. Prof.	Env. Engg.	29
8	Dr. A.L. Dandge	Ph.D.	Asso. Prof.	Hydraulics	26
9	Prof. V.G. Meshram	M.Tech	Asso. Prof.	Str. Engg.	26
10	Dr. A.R. Gajbhiye	Ph.D.	Professor	Hydraulics	25
11	Prof. R.S. Deotale	M.Tech	Asso. Prof.	Str. Engg.	28

12	Prof. R.R. Dighade	M.Tech	Asso. Prof.	Hydraulics	25
13	Prof. S.M. Waghmare	M.Tech	Asso. Prof.	Env. Engg.	28
14	Prof. D.R. Raut	M.Tech	Asso. Prof.	Hydraulics	3
15	Prof. B.P. Nandurkar	M.Tech	Asst. Prof.	Str. Engg.	14
16	Prof. M.S. Bhagat (Kene)	M.Tech	Asst. Prof.	Hydraulics	10
17	Dr. S.P. Raut	Ph.D.	Asst. Prof.	Str. Engg.	16
18	Prof. Ms. V.N. Mendhe	M.Tech	Asst. Prof.	Str. Engg.	7
19	Prof. Ms. C.S. Waghmare	M.Tech	Asst. Prof.	Env. Engg.	7
20	Prof. K.S. Ansari	M.Tech	Asst. Prof.	Env. Engg.	4
21	Prof. K.P. Ingle	M.Tech	Asst. Prof.	Env. Engg.	4
22	Prof. H.R. Nikhade	M.Tech	Asst. Prof.	Str. Engg.	4
23	Prof. J.M. Raut	M.Tech	Asst. Prof.	Geot. Engg.	4
24	Prof. D. G. Agrawal	M.Tech	Asst. Prof.	Str. Engg.	3
25	Prof. P.K. Hinge	M.Tech	Asst. Prof.	Str. Engg.	3
26	Prof. A.A. Yadav	M.Tech	Asst. Prof.	Str. Engg.	3
27	Prof. S.U. Dhote	M.Tech	Asst. Prof.	Str. Engg.	2
28	Prof. M.V. Gabhane	M.Tech	Asst. Prof.	Str. Engg.	3
29	Prof. Ms. S.S. Meshram	M.Tech	Asst. Prof.	Str. Engg.	2
30	Prof. P.B. Pande	M.Tech	Asst. Prof.	Geot. Engg.	2
31	Prof. A.S. Kurzekar	M.Tech	Asst. Prof.	Str. Engg.	2
32	Prof. V.D. Jayale	M.Tech	Asst. Prof.	Str. Engg.	2
33	Prof. Ms. A.B. Kamdi	M.Tech	Asst. Prof.	Civil Engg.	2
34	Prof. Ms. S.K. Kamble	M.Tech	Asst. Prof.	Env. Engg.	2
35	Prof. Ms. N.J. Ramteke	M.Tech	Asst. Prof.	Str. Engg.	2
36	Prof. H.M. Warade	M.Tech	Asst. Prof.	Env. Engg.	1
37	Prof. S.M. Amrodiya	M.Tech	Asst. Prof.	Str. Engg.	1
38	Prof. S.G. Kalamkar	M.Tech	Asst. Prof.	Env. Engg.	1
39	Prof. S.W. Dhengare	M.Tech	Asst. Prof.	Str. Engg.	1
40	Prof. M.M. Shelote	M.Tech	Asst. Prof.	Str. Engg.	1
41	Prof. A.N. Asati	M.Tech	Asst. Prof.	Str. Engg.	1

8. Percentage of classes taken by temporary faculty – programme wise information

Year	Name of Programme	% of classes taken by temporary faculty
2014-15	Under Graduate (UG)	5.94 %
	Post Graduate (PG)	0.00 %
2013-14	Under Graduate (UG)	4.91 %
	Post Graduate (PG)	0.00 %
2012-13	Under Graduate (UG)	6.93 %
	Post Graduate (PG)	0.00 %
2011-12	Under Graduate (UG)	10.45 %
	Post Graduate (PG)	0.00 %

9. Programme wise Student Teacher Ratio

Year	STR (UG)		STR (PG SE)		STR (PG EE)	
	As per actual Strength	As per Intake	As per actual Strength	As per Intake	As per actual Strength	As per Intake
2015-16	17.18	14.12	12.5	12.5	6	12
2014-15	18.17	14.48	12.5	12.5	6	12
2013-14	16.10	13.34	12.5	12.5	3.5	9
2012-13	16.56	13.64	12.25	12.5	3	9
2011-12	17.71	14.12	11.75	12.5	3	6

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

SN	Staff	Sanctioned	Filled
1	Academic Supporting staff (Technical)	10	10
2	Administrative staff	02	02

11. Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project wise.

SN	Title of Research Project	Funding Agency	Status	Faculty Involved	Grant Received (Rs.)
1	International Conference on Disaster Management, March-2014	AICTE, Seminar Grant	Complete	Dr. A.R. Gajbhiye Dr. S.D. Bhole	3,00,000.00
2	International Conference at Colombo, Srilanka, 2013-14	UGC Travel grant	Complete	Dr. S.P. Raut	51,000.00

12. Departmental projects funded by DST/FIST; DBT, ICSSR, etc.; total grants received

S.N.	Title of Research Project	Funding Agency	Status	Name of Faculty Involved	Grant Received (Rs)
1	Purchase of Equipment, 2013-14	DST-FIST	In process	Dr. A.V. Patil & Prof. J.M. Raut	8,44,977.00

13. Research facility / center with

- State recognition
- National recognition
- International recognition

Department of Civil Engineering is approved research center of R.T.M. Nagpur University for pursuing Ph.D. and M.E. (by research)

14. Publications:

- Number of papers published in peer reviewed journals (national / international)

SN	Year	Paper Published				Total
		International Journals	National Journals	International Conference	National Conference	
1	2014-15	13	01	07	64	85
2	2013-14	22	00	14	34	70
3	2012-13	10	02	00	20	32
4	2011-12	29	00	10	25	64
	Total	74	03	31	143	251

- Monographs : Nil
- Chapter(s) in Books : Nil
- Editing Books : Nil
- Books with ISBN numbers with details of publishers : 01

SN	Name of Author/s	Name of Book	Details (Publisher, DOI, ISBN, Year, Page Nos.)
1	Prof. S.U. Dhote	Matrix Method of Structural Analysis	ISBN No: ISBN 978-81-203-4984-1, Name of Publisher: PSI Learning Private limited, New Delhi

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.) : NIL
- Citation Index – range / average : NIL
- SNIP : NIL
- SJR : NIL
- Impact factor – range / average : NIL
- index : NIL

15. Details of patents and income generated

SN	Details of patents	Income generated
1	Filled patent on “Structural unit having expanded metal mesh as reinforcement and method for manufacturing the structural unit”, application number: 633/MuM/2011 dated 07/03/2011 by Dr. A.V. Patil and Dr. S.P. Raut	NIL
2	Filled patent on “Andoe, cathode and Separator in Microbial Fuel Cell (MFC) for treatment of wastewater”, application by Dr. S. V. Ambeka, Prof. V.A. Mhaisalkar, Prof. M.M. Ghangrekar	NIL
3	Received copyright for Teaching Material of Transportation Engineering-I : Diary Number: 1620/2015-CO/L by Prof. Amruta Yadav, Prof. Sangita Meshram	NIL
4	Filed copyright for Teaching Material of Geotechnical Engineering. I : Diary Number: 1584/2015-CO/L by Prof. J.M. Raut, Dr.S.R.Khandeshwar	NIL
5	Filed copyright for Teaching Material of Strength of Materials : Diary Number: 1398/2015-CO/L by Prof. S.W.Dhengare, Prof.V.G.Meshram, Prof. R.S.Deotale	NIL
6	Filed copyright for Teaching Material of Concrete Technology: Diary Number: 1585/2015-CO/L by Prof. P.K.Hinge, Dr. S.D.Bhole	NIL
7	Filed copyright for Teaching Material of Environmental Engineering-I : Diary Number: 2893/2015-CO/L by Prof. S.M.Waghmare, Dr. S.V.Ambekar	NIL
8	Filed copyright for Teaching Material of Building Construction & Building Drawing: Diary Number: 3381/2015-CO/L by Prof. D.G.Agrawal, Prof.Ankush Asati	NIL
9	Filed copyright for Teaching Material of Building Services: Diary Number: 1184/2015-CO/L by Prof. A.S.Kurzekar, Prof. S.W.Dhengare	NIL

10	Filed copyright for Teaching Material of Engineering Hydrology: Diary Number: 2054/2015-CO/L by Prof. S.U.Dhote, Prof. M.S.Bhagat	NIL
11	Filed copyright for Teaching Material of Elements of Earthquake Engineering: Diary Number: 2053/2015-CO/L by Dr. A.M.Pande, Prof. S.U.Dhote	NIL
12	Filed copyright for Teaching Material of Transportation Engineering-II: Diary Number: 811/2015-CO/L by Prof.P.B.Pande, Prof.Sangita Meshram	NIL
13	Filed copyright for Teaching Material of Project Planning & Management: Diary Number: 7225/2015-CO/L by Prof. Snehal Kamble, Prof. Y. Kherde, Prof.Ankush Asati	NIL

16. Areas of consultancy and income generated

Details of consultancy services given by civil engineering department/faculty

S N	Title of Project	Organization / Industries	Name of Faculty involved in Project	Duration of Project	Amount
1	Consultancy for NDT at Balaghat, Chikhali	MOIL, India	Dr. A.V. Patil Prof. R.S. Deotale Prof. P.K. Hinge	2012-13	1,80,000/-
2	Water Reform project at Padharkawada	ADCC InfoCad Ltd.	Dr. S. R. Khandeshwar Dr. S. D. Bhole Dr. A. V. Patil Prof. P. B. Pande	2014-15	1,25,000/-
3	Bhadravati Reform Project	ADCC InfoCad Ltd.	Dr. A.M. Pande Prof. Ms. M.S. Bhagat Prof. Ms. C.S. Waghmare Prof. S.U. Dhote	2014-15	1,12,000/-
4	Wardha Reform Project	ADCC InfoCad Ltd.	Prof. R.S.Deotale Prof. Ms. A.A.Yadav Prof. Ms. N.J. Ramteke Prof. Ms. S.S. Meshram	2014-15	1,25,000/-
5	Mul Reform Project	ADCC InfoCad Ltd.	Dr. S.V. Ambekar Prof. B.P. Nandurkar Prof. H. R. Nikhade Prof. Ms. P.S. Chakole	2014-15	1,15,000/-

6	Third Party Technical Audit, Katol.	Municipal Council, Katol	Dr. S. R. Khandeshwar Prof. J.M. Raut Prof. P.B. Pande Prof. V.D. Jayale	Work is in progress	1,50,000/-
7	Third Party Technical Audit, Umred.	Municipal Council, Umred	Dr. A. R. Gajbhiye Prof. V.G. Meshram Prof. H.M. Warade Prof. A.S. Kurzekar	Work is in progress	2,00,000/-
8	Third Party Technical Audit, Mouda.	Municipal Council, Mouda	Dr. A.L.Dandge Prof. K.S. Ansari Prof. H.M.Warade Prof. S.M.Amrodiya	Work is in progress	1,25,000/-

17. Faculty recharging strategies

- Permissions for pursuing higher studies :-**
 As per the provisions of the policy to promote acquisition of higher qualification by the faculty, 15 days study leave in one semester can be availed for doctoral research related work. During the term of the report 09 faculty members have availed this facility. In addition, the academic assignments of such faculty members were rescheduled to suit the mandatory course work to be done at the place of research.
- Attending faculty development & training programs**
 Permission and financial assistance is given to faculty members attending faculty development programs or training programs as per the needs identified by the department.
- Permissions & Financial assistance for attending workshops & conferences etc.**
 As per policy the financial assistance for paper presentation / attending workshops etc. is extended in the form of registration, travelling and incidental expenses.
- Skill upgradation training for faculty**
 Newly recruited faculty members are deputed for skill upgradation training to specialized organizations.
- Promotions to higher posts as per availability**
 The faculty members are promoted to higher position after acquisition of higher qualification/ training/expertise under Career Advancement Scheme and Internal Promotion Scheme.
- Faculty Mentor Scheme**
 The junior faculty works in tandem with the senior faculty of the department for quality teaching of the courses.

18. Student projects

- Percentage of students who have done in-house projects including interdepartmental
- Percentage of students doing projects in collaboration with industries / institutes

Details of collaborative projects at UG/PG level

Year	UG Projects		PG Projects (SE)		PG Projects (EE)	
	In-House	Collaborative with Industry / Institutes	In-House	Collaborative with Industry / Institutes	In-House	Collaborative with Industry / Institutes
2014-15	100 %	0 %	84%	16%	100%	0 %
2013-14	83%	17%	96%	4%	100%	0 %
2012-13	100%	0 %	96%	4%	100%	0 %
2011-12	100%	0 %	96%	4%	NA	NA

19. Awards / recognitions received at the national and international level by

- Faculty :

SN	Name of Faculty	Award / Recognitions	Awarding Organization
1	Dr. U.P. Waghe, Dr. A.V.Patil,	Best Paper Award	International Conference (CEBM 2011) Kunming, China, 2011
2	Dr. A.M. Pande, Dr. U.P. Waghe, Dr. A.V. Patil,	Keynote Speaker / Chair Person	National & International Conference 2011-2012
3	Dr. A.M. Pande	Reviewer of Reputed Journals	American Concrete Institute 2012
4	Dr. A.M. Pande	Member	BIS Committee, 2013
5	Dr. U.P. Waghe	Member UGC Committee for Grant of Autonomy	Government College of Engineering Chandrapur, 2014
6	Prof. R.R. Dighade	Best Paper Award	International Conference on Emerging Trends in Civil Engineering, Nagpur, 2014
7	Prof. S.U. Dhote	Best Paper Award	International Conference of Advent trends in Engineering Technology MG Aricent Pvt.Ltd. Yavatmal & IJRAT, 2014

• **Doctoral / postdoctoral fellows :**

SN	Name of Faculty	Doctoral/Post-Doctoral Fellow	Year of Awarding
1	Dr. S.R. Khandeshwar	Ph.D. awarded by Rastrasant Tukdoji Maharaj Nagpur University, Nagpur	2012
2	Dr. A.V.Patil	Ph.D. awarded by RTMNU, Nagpur	2014
3	Dr. S.V. Ambekar	Ph.D. awarded by VNIT, Nagpur	2014
4	Dr. S.P. Raut	Ph.D. awarded by VNIT, Nagpu	2014
5	Dr. A.L. Dandge	Ph.D. awarded by Rastrasant Tukdoji Maharaj Nagpur University, Nagpur	2015
6	Dr. S.D. Bhole	Ph.D. awarded by Rastrasant Tukdoji Maharaj Nagpur University, Nagpur	2015

• **Students :**

Academic Year 2014-15			
SN	Name of Student	Award/Recognition Details	Awarding Organization
1	Amit Tambe	Second Prize In Model Competition	Pratikruti-15, National Level Project Competition Organized By Y.C.C.E
2	Rutuja Dharkar		
3	Suchana Telrandhe		
4	Harshal Parbat		
5	Vishal Sangani	First Prize In Poster Competition	PRATIKRUTI-15, A National Level Project Competition Organized By Y.C.C.E
6	Vijesh Agrawal		
7	Sagar Jasuja		
8	Samidha Pathak	First Prize In Inter College Debate Competition	Rotary Club of Nagpur West
9	Samidha Pathak	First Prize In Power Point Presentation Competition	Tech waves -14 ,R.G. College of Engineering and Research
10	Samidha Pathak	Best Speaker In Inter College Debate Competition	Rotary Club of Nagpur West
11	Samidha Pathak	First Prize In Tech-Village	Unnati-15, A National Conference of Students on Explorations in Engineering and Technology
12	Samidha Pathak	First Prize In Elocution	Technostorm-14, Govindrao Wanjarin College of Engineering, Nagpur

13	Samidha Pathak	First Rank	Pace, Y.C.C.E
14	Samidha Pathak	Winner In Communication Skill For Practical Purpose	Ascent-2014, Umrer College of Engineering
15	Samidha Pathak	Second Prize Debate Competition	Horizon-14, Priyadarshini College of Engineering, Nagpur
16	T.M. Jibhakate	Best Paper Award	SPANDAN-15, A National Conference on Advances in Engineering, Technology and Applied Sciences, YCCE, Nagpur
17	Aashay Patil		
18	Amit Tiwari		
19	Praful Bhoge		
20	Shubham Akhatkar	Best Paper Award	SPANDAN-15 A National Conference, YCCE, Nagpur
21	Akshay Kale		
22	Nishtha Kapse		

Academic Year 2013-14			
SN	Name of Student	Award/Recognition Details	Awarding Organization
1	Gunjan Kirpal	Best Paper Award	SPANDAN-14, A National Conference on Advances in Engineering, Technology and Applied Sciences, YCCE, Nagpur
2	A. Yenprediwar		
3	Ashwini Dahate		
4	Trushali Puri		
5	Pankaj Dhawale		
6	A.K. Khandalkar	Best Paper Award	SPANDAN-14, A National Conference on Advances in Engineering, Technology and Applied Sciences, YCCE, Nagpur
7	M. H. Kokarde		
8	A.t A. Shende		
9	Ahart J. Pazare		
10	D. S. Nardelwar		
11	Swapnil P. Pathe		

Academic Year 2012-13			
SN	Name of Student	Award/Recognition Details	Awarding Organization
1	S. Harinkhede	Best Paper Award	SPANDAN-13, A National Conference on Advances in Engineering, Technology and Applied Sciences, YCCE, Nagpur

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Academic Year 2014-15					
SN	Event Name	Resource Persons	Source of Funding	Organized for	Outstanding Participants
1	Workshop on Advances in Concrete Technology	Er. L.K. Jain, Mr. DevenMatte, Mr. M. Waghmare, Mr. K.C. Tayade, Mr. V.M. Galande, Dr. D.P. Mase	Self-Financed	Students and Staff	07
2	Workshop on Professional Carriers after Civil Engg.	Mr. Pratik Chandrayun Mr. Sachin Manicawad,	Self-Financed	Students and Staff	NIL
3	Short Term Training Programme on Geotechnical Application & Advancement	Dr. Ravi Kshirsagar, Dr. Y.S. Golait, Dr. S.M. Dasaka, Dr. Anirvan Mandal	Self-Financed	Staff	05
4	National Conference on Current Trends in Civil Engg	Prof. G. Thakare, Dr. R. Kshirsagar, Dr. M.S. Kadu,	Self-Financed	Staff	04
5	Workshop on Job Opportunities after BE	Mr. J. P. Majumdar	Self-Financed	UG and PG Students	NIL

Academic Year 2013-14					
SN	Event Name	Resource Persons	Source of Funding	Organized for	Outstanding Participants
1	Workshop on Work Condition on National & International Scenario	Mr. Asfaque Ahmad	Self-Financed	Students and Staff	05
2	Interaction with Students on Opportunities after Graduation,	Mr. J. P. Majumdar	Self-Financed	Students and Staff	NIL

	Training & Placement and Sharing Industrial Experience				
3	International Conference on Disaster Management	Dr. B. Bhattacharya Dr. R. Kshirsagar Dr. V.S. Sapkar	AICTE and Self-Financed	Students and Staff	15
4	Workshop On Industrial Motivation Campaign (IMC) on Entrepreneurship Development	Mr. C.S. Dodke Ministry of Micro Small & Medium Enterprises (MSME), Govt. of India	Self-Financed	Students and Staff	08
5	Workshop on Group Discussion and Personal Interview	Dr. Suresh Chari & Mr. Murli Krishna	Self-Financed	Students and Staff	06

Academic Year 2012-13					
S N	Event Name	Resource Persons	Source of Funding	Organized for	Outstanding Participants
1	Workshop on Future Scope for Civil Engineers in Developing Infrastructures	Mr. Pratik Vyas	Self-Financed	Students and Staff	NIL
2	Workshop on Nano Gate	Meghe Finishing School and Gate Point, by Meghe Finishing School	Self-Financed	Students and Staff	NIL
3	Three day workshop on Geotechnical Engineering	"Dr. G. Venkatachalam, Professor, Civil Engg., IIT Bombay	Self-Financed	Students and Staff	NIL
4	Workshop on Introduction to Non-Destructive Test	Mr. Sripad P. Kulkarni	Self-Financed	Students and Staff	03
5	Workshop on Professional Ethics	Mr. Ashutosh Wakhare, CEO, Money Bee Institute, Nagpur	Self-Financed	Students and Staff	NIL
6	One day workshop	Er. L.K. Jain,	Self-	Students	NIL

	on Advances in Concrete Technology	K.C. Tayade, Dr. D.P. Mase	Financed	and Staff	
7	One day seminar on Funding Opportunities for Research	Dr. A. M. Pande	Self-Financed	Staff	NIL

Academic Year 2011-12					
S N	Event Name	Resource Persons	Source of Funding	Organized for	Outstanding Participants
1	Workshop on Recent Trends in Design of Bridges	Er Chetan Pawar, Bridge Engineer, Gifford LPP, UK	Self-Financed	Students and Staff	NIL
2	Mathematical Modeling Techniques	Dr. M.M. Mahajan, VNIT, Nagpur	Self-Financed	Students and Staff	NIL
3	Workshop on Remote Sensing, Slope Stability and Machine foundations	Dr. G. Venkatachalam, IIT Bombay	Self-Financed	Students and Staff	NIL
4	National Workshop on Fiber Reinforced Concrete	Prof. Nemy Banthia, Canda, Dr. V. Ramkrishnan, USA, Er. L.K. Jain, Structural Consultant Nagpur	Self-Financed	Students and Staff	05

21. Student profile course-wise:

Year	Name of Program with Intake	No. of Enrolled/Admitted		Pass Percentage (%)	
		Male	Female	Male	Female
Admission Year (2011-12) Passing Year (2014-15)	UG (Civil)	126	37	75.39%	72.97%
Admission Year (2013-14) Passing Year (2014-15)	PG (SE)	15	09	100.00%	100.00%
Admission Year (2013-14) Passing Year (2014-15)	PG (EE)	01	06	100.00%	100.00%
Admission Year (2010-11)	UG	106	39	84.91%	87.18%

Passing Year (2013-14)	(Civil)				
Admission Year (2012-13) Passing Year (2013-14)	PG (SE)	15	10	100.00%	100.00%
Admission Year (2012-13) Passing Year (2013-14)	PG (EE)	00	00	NA	NA
Admission Year (2009-10) Passing Year (2012-13)	UG (Civil)	64	09	76.56%	100.00%
Admission Year (2011-12) Passing Year (2012-13)	PG (SE)	12	09	100.00%	100.00%
Admission Year (2011-12) Passing Year (2012-13)	PG (EE)	00	06	NA	83.33%
Admission Year (2008-09) Passing Year (2011-12)	UG (Civil)	57	12	80.70%	100.00%
Admission Year (2010-11) Passing Year (2011-12)	PG (SE)	17	04	100.00%	100.00%
Admission Year (2010-11) Passing Year (2011-12)	PG (EE)	00	00	NA	NA

22. Diversity of students

Year	Name of the Course	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
2014-15	UG	0.00	98.60	1.40	0.00
	PG (SE)	4.00	96.00	0.00	0.00
	PG (EE)	0.00	90.90	9.10	0.00
	M.E. by Research	0.00	0.00	0.00	0.00
	PhD	0.00	0.00	0.00	0.00
2013-14	UG	0.00	96.12	3.88	0.00
	PG (SE)	4.00	96.00	0.00	0.00
	PG (EE)	0.00	100.00	0.00	0.00
	M.E. by Research	0.00	100.00	0.00	0.00
	PhD	12.50	87.50	0.00	0.00
2012-13	UG	NA	91.27	8.73	0.00
	PG (SE)	8.00	84.00	8.00	0.00
	PG (EE)	NA	NA	NA	NA
	M.E. by Research	33.33	66.67	0.00	0.00
	PhD	33.33	66.67	0.00	0.00

Year	Name of the Course	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
2011-12	UG	NA	83.46	16.54	0.00
	PG (SE)	0.00	100.00	0.00	0.00
	PG (EE)	0.00	100.00	0.00	0.00
	M.E. by Research	0.00	0.00	0.00	0.00
	PhD	16.67	83.33	0.00	0.00

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Year	Number of students Cleared Examinations					
	GATE	GRE/GMAT	CAT	Defense Services	Civil Services	Any Other
2014-15	08	01	00	00	00	00
2013-14	14	01	00	00	00	00
2012-13	15	02	00	00	00	00
2011-12	06	02	00	00	00	00

24. Student progression

SN	Student Progression	Percentage against Enrolled			
		2011-12	2012-13	2013-14	2014-15
1	UG to PG	16.44 %	28.16 %	33.8 %	27.8 %
2	PG to Ph.D.	NA	NA	NA	NA
3	Ph.D. to Post-Doctoral	NA	NA	NA	NA
4	Employed Campus Selection	24.66 %	14.08 %	16.19 %	13.90 %
5	Off Campus Selection	30.14 %	42.25 %	28.87 %	35.76 %
6	Entrepreneurs/Self Employment	NA	NA	NA	NA

25. Diversity of staff

SN	Faculty who are graduates	Percentage of faculty
1	Of the same parent university	70.73 %
2	From other universities within the State	26.83 %
3	From other universities from other States	2.44 %

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

SN	Name of Faculty	Degree Awarded	Degree Awarding Year
1	U.P. Waghe,	Ph.D	2010-11
2	A.R. Gajbhiye	Ph.D	
3	S.R. Khandeshwar	Ph.D	2012-13
4	A.V. Patil	Ph.D	2013-14
5	S.V. Ambekar,	Ph.D	2014-15
6	S.P. Raut	Ph.D	
7	A.L. Dandge	Ph.D	2015-16
8	S.D. Bhole	Ph.D	

27. Present details about infrastructural facilities

SN	Infrastructure facility	Details related to Department	Numbers Available
1	College Library	Book Titles	3946
		Book Volumes	13727
		Journals (Print + Online)	48
		Magazines & Periodicals	--
		E-Recourses Title (CD/DVD etc.)	9865
		E-Recourses Volume (CD/DVD etc.)	10035
2	Departmental Library	Book Titles	105
		Project Reports (UG/PG)	574
		Any Other	NA
3	Internet facilities for staff and students in the department	No. of Computers (Staff + Lab)	100
		No. of Computers with Internet Facility	97
4	Class Rooms with ICT Facility	No. of Class Rooms with ICT Facility	15/15
5	Student Laboratories	No. of Student Laboratories	18
6	Research Laboratories	No. of Research Laboratories	02

28. Number of students of the department getting financial assistance from College.

UG

Year	No. of students Getting Financial Assistance For		
	GATE Exam	Final Year Project	Fee Concession
2014-15	119	151	14
2013-14	133	135	06
2012-13	35	71	00
2011-12	--	72	05
2010-11	--	65	04

PG

Year	No. of students Getting Financial Assistance For	
	Final Year Project	Fee Concession
2014-15	32	00
2013-14	25	01
2012-13	28	01
2011-12	25	00
2010-11	25	00

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Curriculum development Workshop conducted for UG & PG courses

Session	Program	Experts	Nature of Interaction
2011-12	B.E. Civil	Dr. D M Dewaikar, IIT, Bombay Dr. G.L.Asawa, IIT,Roorkee Dr. M.M.Mahajan, VNIT,Nagpur Dr. A.R.Tembhurkar, VNIT, Nagpur	Curriculum Development for B.E. Civil
2012-13	B.E. Civil	Dr. D M Dewaikar, IIT, Bombay Dr. G L Asawa, IIT,Roorkee Dr. M MMahajan, VNIT, Nagpur Dr. A R Tembhurkar, VNIT, Nagpur	Curriculum Development for B.E. Civil
2013-14	M. Tech. Stru. Engg.	Dr. O R Jaiswal, VNIT, Nagpur Dr. L M Gupta, VNIT, Nagpur	Curriculum Development for M.Tech
	M. Tech Env. Engg.	Dr. V A Mhaisalkar, VNIT, Nagpur	M.Tech (Env. Engg.)
	I and II Year B.E.	Dr. A R Tembhurkar, VNIT, Nagpur	Curriculum Development

30. Does the department obtain feedback from

The feedback is collected for all the courses: YES

1. Faculty on curriculum as well as teaching learning evaluation? If yes, how does the department utilize it?

- Course Completion Report
- Informal Feedback from faculty
- Discussions in Board of Studies Meetings
- HoDs Monthly Meeting

2 Students on staff, curriculum as well as teaching learning evaluation and what is the response of the department to the same?

Feedback collection process: Feedback is collected by the office of Dean Academic Matters. Once each before MSEs and one before ESE for autonomy programs, once for University programs.

Percentage of students participating: Around 85 to 90 % percentage of students participated in the feedback process. The feedback is analyzed on computers to assess the teaching capabilities, teachers' habits, usage of technology in the classroom, subject contents and overall satisfaction level of students.

Corrections required in each teacher's delivery method, improvement in technical contents through usage of technology, effectiveness of the teacher and finally the grading of teachers on the basis of feedback collected is arrived at through the analysis

- The Feedback Report on teaching learning process are discussed with the teachers by Head of the Department in informal meeting. A special committee consists of the Principal, Dean (Academic Matters) and head of the department interacts with the teachers with score less than the benchmark score to understand the problems and to exhort the teacher to perform better.
- Basis of reward/corrective measures: Teachers with very good score are issued the appreciation letters while those with the low score are advised to introspect for the improvement. They are issued the letters to improve the performance. They are helped by the seniors in the department too. The special training sessions by the qualified third party agency is engaged to help the teacher whenever needed. In case the feedback is very poor and the teacher has shown no significant improvement, then he is asked to leave.
- The extraneous factors, like hard / soft attitude of the instructor are considered
- The result of the subject taught by the teacher is also considered

3. Alumni and employers on the programmes and what is the response of the department to the same?

- The feedback from alumni is taken in the alumni meet
- The feedback form is given to Industry when they come for campus and is normally received by mail
- The feedback from parents is taken during parents meet

- The feedback from alumni and industry is analyzed by Training and placement department and parent's feedback is analyzed by respective academic departments.

The major corrective actions based on feedback

- Infrastructure improvement by providing Auditorium of capacity more than 500.
- Training on communication skills, Personality Development Programs.
- The period for books borrowed increased from Two weeks to Three weeks.
- Improvement in Sanitary and Drinking water facility.
- Modification in the course content
- Introduction of new practical.
- Student Development Programs like GENNEXT, TiE and CRT.

31. List the distinguished alumni of the department

SN	Name of Alumni	Designation	Company Name / Department
1	Arghaya Palit	Senior Manager	Oracle ,USA
2	Rajban Ghoshal	Assistant Vice President	Polaris Financial Technologies Ltd ,NY, USA
3	Ajay Joshi	Technical Director	NIC, Delhi
4	D.P. Mase	Chief Managing Director	PT Mase and Associates, Nagpur
5	Mahesh Dande	Managing Director	JD Infra, Nagpur
6	Sanjay Joshi	Managing Director	JD Infra, Nagpur
7	Anil Sancheti	Managing Director	SMS Infra, Ltd.
8	Manish Gajbe	Consulting Director	India at RIB Software AG, Mumbai, India
9	Rajkumar Singh	Regional Head	BL Kashyap Construction Ltd. Delhi
10	Nitin Deshmukh	Executive Engineer	PWD, Maharashtra State

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

AY: 2014-2015			
SN	Date	Activity	External Experts
1	23/08/2014	Workshop on Professional Carriers after Civil Engineering	Mr. Pratik Chandrayun (IES), Sachin Manicawad
		Workshop on Advances in Concrete Technology	Er. L.K. Jain Mr. Deven Matte Mr. Mahesh Waghmare K.C. Tayade V.M. Galande Dr. D.P. Mase
3	01/09/2014	Visiting Professor Scheme	Dr Y.M. Desai, IIT Bombay
4	7-11/10/2014	Short Term Training Programme on Geotechnical Application & Advancement	Dr. Ravi Kshirsagar Dr. Y.S. Golait Dr. S.M. Dasaka Dr. Anirvan Mandal
5	18-19/12/2014	Two Day National Conference on Current Trends in Civil Engineering	Prof. G. Thakare Dr. R.Kshirsagar Dr. M.S. Kadu
6	24/12/2014	Job opportunities after BE Degree	Mr. Joydeep Paul Majumdar
7	10/02/2015	Visit of Professor	Dr. Y.M. Desai, IIT Bombay
8	24/02/2015	Guest Lecture on Steel Structure	Mr. Tejvidar Singh

AY: 2013-14			
SN	Date	Activity	External Experts
1	01/08/2013	Guest lecture on Introduction to Planning & Management at Site	Mr. Pratik Vyas
2	06/08/2013	Work Condition On National & International Scenario	Mr. Asfaque Ahmad
		Installation Programme of Association of Civil Technocrats	Dr. A.M. Pande
3	12/08/2013	Interaction with students on Opportunities after Graduation, Training & Placement and sharing industrial experience	Mr. Joydeep Paul Majumdar
4	29/08/2013	Guest Lecture on Gate point Academy	Manish, GATE Academy
5	18/09/2013	Guest Lecture on Antarctica Myths and Reality	Dr. Kirtikumar R. Randive
6	11/10/2013	Global Water Resources Scenario, Guest Lecture	Dr. A.D. Ghare, VNIT Nagpur

7	25/10/2013	Guest Lecture on Practical exposure of traffic Engineering	Mr. Ram Rewatkar Mr. Atul Agarkar Mr. Dilip Chitre A.S.I., Taffice Police Department, Nagpur
8	28/10/2013	Guest Lecture on Design of Bridges	Mr. Jaltare Designer Artifact Project Limited
9	09/10/2013	Visiting Professor Scheme	Dr. T.I. Eldho, IIT Bombay,
10	16/01/2014	Guest Lecture on GIS	Ritesh Vijay, NEERI
12	17-18/02/2014	Visiting Professor Scheme	Dr G. Venkatachalam, IIT Bombay
13	13-14/03/2014	International Conference on Disaster Management	Dr. B. Bhattacharya Dr. Ravi Kshirsagar Dr. V.S. Sapkar
14	19/03/2014	Workshop On Industrial Motivation Campaign (IMC) On Entrepreneurship Development	Mr. C.S. Dodke, Ministry of Micro, Small & Medium Enterprises (MSME), Gov. of India
15	22/03/2014	Workshop on Group Discussion and Personal Interview	Dr. Suresh Chari, Mr. Murli Krishna

AY: 2012-13			
SN	Date	Activity	External Experts
1	03/07/2012	Future Scope for Civil Engineers in Developing Infrastructures	Mr. Pratik Vyas
2	11-07/2012	Two Hours Test Exam Nano Gate	Meghe Finishing School and Gate Point
3	01/08/2012	Group Discussion & Personal Interview, Guest lecture	Ms. Shilpa Kanor
4	02/08/2012	Areas and scope of Civil Engineering, Guest lecture	Mr. Nihar Pani
5	31/08/2012	Areas and scope of Civil Engineering, Guest Lecture	Dr. Vivek N. Nanoti
6	26/09/2012	Gate Preparation, Guest Lecture	The Gate Academy
7	28/09/2012	Group Discussion & Personal Interview, Guest Lecturer	Dr. S.V. Gole
8	30/01/2013	Three day Visit of Professor	Dr. G. Venkatachalam, Professor of Civil Engineering, IIT Bombay
9	26/02/2013	Guest Lecture on Soft Skills Development	Ms. Hansalli Waghmare, Trainer from Meghe Finishing School

10	27/02/2013	Guest lecture on Soft Skill Development	Mr. Nishant Suryawanshi, Trainer and Corporate Educator from Meghe Finishing School, Nagpur
11	08/03/2013	Workshop on Introduction to Non-Destructive Test (NDT)	Mr. Sripad P. Kulkarni
12	13/03/2013	Guest Lecture on Managerial Excellence	Mr. C.S. Dodke
		Professional Ethics	Mr. Ashutosh Wakhare, Owner of Money Bee Institute, Nagpur Alumini of CE, YCCE, Nagpur,
		Transform Indians to Transform India	Ms. Nidhi Kamdar, President of BJP, Nagpur City Yuvati Morcha

AY: 2011-12			
SN	Date	Activity	External Experts
1	09/07/2011	Recent Trends in Design of Bridges	Er. Chetan Pawar, Bridge Engineer, Gifford LPP, UK,
2	16/07/2011	Mathematical Modeling Techniques	Dr. M.M. Mahajan, VNIT, Nagpur,
3	04/08/2011	Soft skill development guest lecture On Leadership with Passion	Mr. Mahendra Kakde, Ex Captain, Indian Army & Chief Executive, Clide Management Consultancy Nagpur
4	17/08/2011	Soft skill development guest lecture on Success unlimited	Mr. Devendra Parekh, President Vidarbha Economic Development Council
5	27/08/2011	Soft skill development One day Work shop on GD/PI EXPRESS YOURSELF	Dr. Suresh Chari, Managing Director, Chari's Institute of Personality Development
6	13/09/2011	Lecture programme on Career opportunities to Civil Engineering Students	Mr. R G Namdeo, Sr. Manager Trans Rail systems, Bermingham, UK
7	10/01/2012	Lecture programme on Career opportunities to Civil Engineers in Management	Ms. Vaishali Rahate, DMIMS, Nagpur
8	12-14/01/2012	Three day workshop on Remote Sensing, Slope Stability and Machine foundations	Dr. G. Venkatachalam, IIT Bombay
9	01/02/2012	Soft Skill Development on Leadership in Action	Mr. Javed Khan Rana, Past President, Nagpur Junior Chamber of Commerce & National Trainer

10	15/02/2012	National Workshop on Fiber Reinforced Concrete	Prof. Nemy, University British, Canda, Dr. V. RamkrishnaN, USA, Er. L.K. Jain, Structural & Consultant Nagpur, Dr. A.D. Pofale, VNIT, Nagpur
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33. List the teaching methods adopted by the faculty for different programmes.

- Chalk and board / white board
- Laboratory /Workshop Practical
- Tutorials & Assignments
- Seminars /Guest lectures
- OHP (Transparencies)
- Industrial visits
- Project in Final year
- Technical Quiz
- Charts and Models
- E-Assignments
- Use of NPTEL material
- Use of DTEL material
- PPT

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- **Tutorial Classes**
 - Tutorial classes in Timetable as per curriculum
 - Students to work out the problems/assignments to clear the individual doubts
- **Remedial Teaching**
 - Remedial teaching is made available for students
 - At the end of semester the time table is displayed
 - Difficult & important topics are discussed
 - Individual queries / doubts are solved by teacher
- **Mentoring System**
 - Mentoring System to help students individually
 - Type of Mentoring offered are through Faculty Advisor / Teacher Guardian / Class Teacher

35. Highlight the participation of students and faculty in extension activities.

The department participates in many social activities like blood donation camps, anti-smoking campaigns, I vote for better India campaign, Swachchata Abhiyan on campus, Nirmalya (Flower and other Waste from Worship of God) Sankalan on the occasion of Ganapati Visarjan at prominent places in the city, traffic rules awareness programmes for the students in collaboration with RTO, Nagpur and Jan Aakrosh - an NGO and many more. WINGS - a society of students of the institution is formed in 2013 which has given recognition to the initiatives and involvement of students and faculty members in all the above activities organised at college level on social responsibilities. SWAS – a society of students formed in 2014 to help needy farmers in drought hit Marathwada region and promotion of reading habits amongst young students.

In addition to this, the students have collected over 3000 pairs of used cloths for victims of calamities faced by India during last couple of years.

36. Give details of “beyond syllabus scholarly activities” of the department.

- Possibility, motivation and scope for self-learning are already created by virtue of DTEL.
- All the teachers deliver few topics beyond syllabus, which are mentioned in the teaching plan.
- Faculty encourages the students for self-learning while giving assignments, quiz, technical paper writing contests etc.
- 08 marks are allotted in the internal assessment out of 40 marks.
- Learning facilities, and availability of materials for learning beyond syllabus
- Department of Technology Enhanced Learning (DTEL) office is established for the creation of self-learning facility for subjects according to RTMNU and autonomous syllabus.
- VoDs & VCDs from IIT Kharagpur and NPTEL material are made available to the students for reference.
- E-books are available in campus-wide network.
- Guest Lectures, Interaction with Alumina, Visit to Research Lab, Visiting Professor Scheme, Industrial Visit

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

Programme	Accrediting Agency	Period
B E. (Civil Engg.)	National Board of Accreditation, New Delhi	2003-2008
	National Board of Accreditation, New Delhi	2008-2011
	National Board of Accreditation, New Delhi	2012-2014
M Tech (Structural Engg)	National Board of Accreditation, New Delhi	2009-2012
M Tech (Environmental Engg.)	National Board of Accreditation, New Delhi	-----

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- Exclusive Departmental Infrastructure
- Well Equipped Laboratories
- Well Qualified, Experienced and Motivated Faculty
- Faculty with average age 36 Years & average experience 14 Years
- 11 faculty members having more than 23 years of service in the Department
- 9 PhD, 11 Faculty members are pursuing PhD
- Student Centric Teaching Learning Process
- Value added courses for learning beyond curriculum
- Faculty members serving as office bearers of professional societies
- Interaction of faculty members with constructions industries professionals
- Academic autonomy

Weaknesses

- Insufficient interaction with scientist from research institutions
- Comparatively lesser testing consultancy opportunities

Opportunities

- Fast track growth of infrastructure at national and local level
- Increase of demand in Civil Engineering
- Starting PG Programmes

Challenges

- Mushroom growth of engineering institution
- Non-availability of senior faculty with industrial exposure.
- Campus Placement in core companies.
- To keep faculty abreast with latest technology

39. Future plans of the department.

- Strengthen Collaborative Activities with Premier Institutions
- Improve Quality of Technical Publications
- Development of centers of excellence in Concrete & Structures and Water shed Management
- Upgrade Faculty Qualifications
- Enhance Interaction with Industry
- Improve Student Participation in National / International events, Competitions, design contests
- Development of faculty expertise in identified thrust areas in focused way
- Procurement of specialized equipment to strengthen R&D activities
- Submissions of proposals to non AICTE funding schemes
- Accreditation of Laboratories by NABL
- Start a new programme M.Tech. (Hydraulic Engineering)

Mechanical Engineering Department

1. Name of the Department & its year of establishment

- Department of Mechanical Engineering
- Established in 1986

2. Names of Programmes / Courses offered (UG, PG and Ph.D.)

Level	Programme of Study	Started in Year	Current Intake
UG	B. E. in Mechanical Engg.	1986	180
PG	M. Tech in CAD / CAM Engg.	2005	18
	M. Tech in Production Engineering	1997	25

3. Interdisciplinary courses and departments involved

The interdisciplinary courses and departments involved is as given below:-

S.N.	Subject	Departments Involved
1	Engineering Mathematics III	Mathematics & Humanities
2	Numerical Methods & Statistical Techniques	
3	Engineering Economics	
4	Engineering Management	
5	Free Elective Courses offered Mechanical Dept.	CT,IT,EE,ETC,CE,EL

4. Annual/ semester/choice based credit system

S. N.	Course	Name of Program	Credit System
1	UG	B.E. Mechanical Engineering	Semester Based Credit System
2	PG	M. Tech in CAD / CAM Engg.	
		M. Tech in Production Engineering	
3	PhD	Mechanical Engineering	--

5. Participation of the department in the courses offered by other departments.

Mechanical Engineering department faculty conducts the related courses offered for other department students, also the students of Mechanical Engineering department register/opt for the free elective courses offered by the other departments.

The details are as indicated in the table.

Subject	Semester	Department
Free Elective-1		
SQL / PLSQL	6th	Computer Tech.
SQL / PLSQL Laboratory	6th	
Linux Operating System	6th	Computer Tech.
Linux Operating System Laboratory	6th	
Environmental Management	6th	Civil Engg.
Environmental Management Lab	6th	
Building Services Engineering	6th	Civil Engg.
Building Services Engineering Lab	6th	
Data Acquisition & Signal Conditioning	6th	Electronics Engg.
Data Acquisition & Signal Conditioning Lab	6th	
Microprocessor & Microcontroller	6th	Electronics Engg.
Microprocessor & Microcontroller Laboratory	6th	
Renewable Energy Generation Systems	6th	Electrical Engg.
Renewable Energy Generation Systems	6th	
Applications of Electrical Machines	6th	Electrical Engg.
Applications of Electrical Machines Lab	6th	
Microcontroller & Embedded Systems	6th	Electronics & Telecom.
Microcontroller & Embedded Systems Lab.	6th	
Principals of Communication Engineering	6th	Electronics & Telecom.
Principals of Communication Engineering Lab	6th	
Web Technology	6th	Information Tech.
Web Technology Lab	6th	
Free Elective-2		
Elements of Earthquake Engineering	7th	Civil Engg.
Air Pollution & Solid Waste Management	7th	Civil Engg.
Electrical Energy Audit and Safety	7th	Electrical Engg.
Utilization of Electrical Energy	7th	Electrical Engg.
Soft Computing	7th	Electronics & Telecom.
Industrial Instrumentation	7th	Electronics & Telecom.
Multimedia and Animation	7th	Computer Tech.
Current Trends and Technologies	7th	Computer Tech.
Fuzzy logic & Neural Networks	7th	Electronics Engg.
Basics of Analog & Digital Communication System	7th	Electronics Engg.
Applications of Computer Networks	7th	Information Tech.
Probability Theory & statistical Inference	7th	Maths & Humanities

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professor	4	01	01	01
Associate Professors	10	12	03	02
Asst. Professors	23	25	05	04

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Sr. No.	Name	Qualification	Designation	Specialization
1	Dr. Chaudhari Sharad Sudhakarao	Ph.D.	Asso. Professor	Manufacturing Science
2	Dr. Shrivastava Rakesh Laxmikumar	Ph.D.	Professor	Six Sigma
3	Dr. Anil Vikuntharao Kale	Ph.D.	Professor	Tool Engineering
4	Mr. Edlabadkar Ajinkya Prakash	M.Tech	Asstt. Professor	Design
5	Mr. Kamble Prashant Dnyaneshwar	M.Tech	Asstt. Professor	CAD/CAM
6	Ms. Kashyap Dipti Navrang	M.Tech	Asstt. Professor	CAD/CAM
7	Dr. Khedkar Sandip Sudhakarao	M.Tech	Asstt. Professor	CAD/CAM
8	Mr. Shahare Devendra Yadaorao	M.Tech	Asstt. Professor	Stress & Vibration Analysis
9	Mr. Amale Ashvin Baban	M.Tech	Asstt. Professor	Design
10	Mr. Ambade Sachin Paparao	M.Tech	Asstt. Professor	CAD/CAM, Manufacturing
11	Mr. Bodkhe Rajesh Ganpatrao	M.Tech	Asstt. Professor	Heat Power
12	Dr. Chadge Rajkumar Babanrao	M.Tech	Asstt. Professor	CAD/CAM
13	Dr. Giri Jayant Pratap	M.Tech	Asstt. Professor	Prod. Engg
14	Ms. Sahare Shilpa Bhimrao	M.Tech	Asstt. Professor	Machine Design
15	Mr. Sangotra Dilip Inderlal	M.Tech	Asstt. Professor	Machine Design
16	Mr. M.Sharique Tufail Jameel Ahmad	M.Tech	Asstt. Professor	CAD/CAM
17	Mr. Waghmare Gopal Haridasji	M.Tech	Asstt. Professor	CAD/CAM
18	Mr. Akant Sunil Shridhar	M.Tech	Asso. Professor	Thermal Engg.

19	Mr. Narkhede Alok Rajendra	M.Tech	Asstt. Professor	CAD/CAM
20	Mr. Adakane Rakesh Vinayak	M.Tech	Asstt. Professor	Production Engineering
21	Dr. Mahakalkar Sachin Girish	M.Tech	Asso. Professor	Design
22	Mr. Giradkar Narendra Janardhan	M.Tech	Asso. Professor	Thermal & Fluid Engg.
23	Mr. Bamnote Anil Jayram	B.E.	Asstt. Professor	Machine Design
24	Mr. Kotwal Madhav Ramesh	M.Tech	Asso. Professor	Reliability Engg
25	Mr. Jachak Shrikant Rajabhau	M.Tech	Asstt. Professor	Prod. Engg.
26	Mr. Shende Prashant Narayan	M.Tech	Asstt. Professor	Prod. Engg.
27	Mr. Bankar Sanjay Laxmanrao	M.Tech	Asso. Professor	Heat Power Engineering
28	Mr. Korde Vivek Marotrao	M.Tech	Asstt. Professor	Thermal & Heat Transfer Engineering
29	Mr. Bonde Ajay Sumantrao	M.Tech	Asstt. Professor	Prod. Engg.
30	Dr. Bagde Sachin Tularam	M.Tech	Asstt. Professor	CAD/CAM
31	Dr. Kshirsagar Surendra Dashrathrao	M.Tech	Asstt. Professor	Machine Design
32	Mr. Thakre Vijay Gulabrao	B.E.	Asstt. Professor	Automobile Engineering
33	Mr. Nandurkar Yogesh Yadavrao	M.Tech	Lecturer	Heat Power Engineering
34	Mr. Gedam Nilesh Diwakar	M.Tech	Lecturer	Heat Power Engineering
35	Mr. Barve Purushottam Shridhar	M.Tech	Lecturer	Industrial Engg.
36	Mr. Lande Pratik Vijay	M.Tech	Lecturer	Machine Design
37	Mr. Bhimgade Harshu Abhimanyu	M.Tech	Lecturer	Heat Power Engineering
38	Mr. Dakhore Manish Madhukar	M.Tech	Lecturer	CAD/CAM
39	Mr. Bhoyar Anand Bhaskar	M.Tech	Lecturer	Heat Power Engineering
40	Mr. Mendhe Mohan Krushanaji	M.Tech	Lecturer	Machine Design
41	Mr. Nagpure Surendra S.	M.Tech	Lecturer	CAD/CAM
42	Mr. Suneria Niraj	M.Tech	Lecturer	Machine Design
43	Mr. Mahatme Chetan A.	M.Tech	Lecturer	Machine Design
44	Mr. Biranwar Girish	M.Tech	Lecturer	Metallurgy
45	Mr. Deshmukh Kapil	M.Tech	Lecturer	CAD/CAM

8. Percentage of classes taken by temporary faculty – Programme-wise information: Nil

9. Programme-wise Student Teacher Ratio: (As per fractional load)

Year	STR (UG)		STR (PG)	
	As per actual Strength	As per Intake	As per actual Strength	As per Intake
2015-16	19.40	18.6	6.7	7.09
2014-15	17.48	16.2	7.1	7.09
2013-14	18.12	16.6	8.6	8.60
2012-13	19.64	16.4	8.09	8.60
2011-12	19.56	16.5	8.54	8.60

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

	Sanctioned	Filled
Administrative Staff	19	19
Academic Support Staff (Technical)	02	02

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Title of Research Project	Funding Agency	Status	Name/s of Faculty Involved	Grant Received
NAFETIC	AICTE	On Going	Dr.J.P.Giri	Rs. 40 lacs
RPS	AICTE	On Going	Dr.A.V.Kale	Rs. 16.47 lacs
MODROB	AICTE	On Going	Dr.S.S.Chaudhary Prof. S.S.Akant	Rs. 16.47 lacs

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:

Title of Research Project	Funding Agency	Status	Name/s of Faculty Involved	Grant Received
Design, Fabrication, Performance Analysis And Optimization of Optically Concentrated	AICTE RPS	Completed	Dr. R.L.Shrivastava	Rs. 4.55 Lac

Solar Water Heater Using TRNSYS Based Model Simulation				
Siemens Centre of Excellence For Digital Manufacturing And Robotics	AICTE NAFETIC	In Process	Dr. A.V.Kale Dr. J.P.Giri	Rs. 1.05 Crore
Performance Evaluation of Automated Rotary Compression Pipe Bending Mechanism	AICTE RPS	In Process	Dr. A.V.Kale	Rs. 16.47 Lac (fund awaited)
Mordanization of Thermal Power Laboratory	AICTE MODROB	Sanctioned	Dr. S.Chaudhari Prof. S.S.Akant	Rs. 14.48 Lac.

13. Research facility / centre with

- state recognition
- national recognition
- international recognition

Department of Mechanical Engineering is approved research center of R.T.M. Nagpur University for pursuing Ph.D and M.E. (by research)

14. Publications:

Year	Journal Publications		Conference Publications		Total
	International	National	International	National	
2014-15	25	0	17	01	43
2013-14	30	1	28	2	61
2012-13	7	1	14	13	35
2011-12	10	1	19	0	30
Total	72	3	78	16	169

15. Details of patents and income generated

S.N.	Details
01	Title: Multigrain Dehusking Machine Inventor: Dr. S.S.Chaudhari Date of Publication: 11/09/2015 Application No. : 1201/MUM/2015A Income Generated: Nil

16. Areas of consultancy and income generated

Area/ Title of Project	Organization / Industry	Name of Faculty involved	Project Duration	Amt.
Design And Development Of Multi Crop Thresher Machine For Cotton Grieves Make 10 Hp Diesel Engine	Cotton Grieves Pvt. Ltd.	Prof. S.L.Bankar Dr. R.B. Chadge	2012-2014	2.25 Lac.
Curriculum designing and training delivery for MATLAB, PROE and CATIA	ADCC Infocad Pvt. Ltd. Nagpur	Dr. J.P.Giri Prof. C.Mahatme	2013-2015	2.00 Lac.

17. Faculty recharging strategies:

- **Permissions for pursuing higher studies :-**
As per the provisions of the policy to promote acquisition of higher qualification by the faculty, 15 days study leave in one semester can be availed for doctoral research related work. During the term of the report 09 faculty members have availed this facility. In addition, the academic assignments of such faculty members were rescheduled to suit the mandatory course work to be done at the place of research.
- **Attending faculty development & training programmes**
Permission and financial assistance given to faculty members attending faculty development programmes or training programmes as per the training needs identified by the department.
- **Permissions & Financial assistance for attending workshops & conferences etc.**
As per policy the financial assistance for paper presentation / attending workshops etc. is extended in the form of registration, travelling and incidental expenses.
- **Skill upgradation training for faculty :**
Newly recruited faculty members are deputed for skill upgradation training to specialized organizations.
- **Promotions to higher posts as per availability.**
The faculty members are promoted to higher position after acquisition of higher qualification/ training/expertise under Career Advancement Scheme and Internal Promotion Scheme.
- **Faculty Mentor Scheme**
The junior faculty works in tandem with the senior faculty of the department for quality teaching of the courses.

18. Student projects

- percentage of students who have done in-house projects including inter-departmental
- percentage of students doing projects in collaboration with industries / institutes

UG

Session	Industrial (%)	In-House	
		Fabrication (%)	Other (%)
2011-2012	40.5	38.1	21.4
2012-2013	16.3	42.9	40.8
2013-2014	13.0	42.6	44.4
2014-2015	26.5	46.9	26.6

PG

Session	Industrial (%)	In-House	
		Fabrication (%)	Other (%)
2011-2012	47	8	45
2012-2013	49	25	26
2013-2014	40	26	34
2014-2015	59%	15	26

19. Awards / recognitions received at the national and international level by

- Faculty : Nil
- Doctoral / post doctoral fellows :

SN	Name of Faculty	Doctoral/Post-Doctoral Fellow	Year of Awarding
1	S.G. Mahakalkar	Doctoral	2014
2	Jayant P. Giri	Doctoral	2014
3	Sandip S. Khedkar	Doctoral	2015
4	Rajkumar B. Chadge	Doctoral	2015
5	S.D.Kshirsagar	Doctoral	2015
6	S.T. Bagde	Doctoral	2015

• **Students :**

Year	SN	Name of Student/s	Award/Recognition Details	Awarding Organization
2014-15	1	Chinmay Deshpande	Inter College Chess competition	RTM Nagpur University
2013-14	1	Amit Chilamwar	RC Nitro CAR - Racing Competition	IIT Kharagpur
	2	Abhishek Paunekar	International Conference On Process Optimization And Simulation of Production Industries - Paper Presentation Competition	J.D.College of Engineering, Nagpur
	3	Chinmay Deshpande	Inter College Chess Competition	RTM Nagpur University
	4	Rohan Panjabi	Inter College Basket Ball Competition	Sports Authority of India, Nagpur Center
2012-13	1	Chinmay Deshpande	Inter College Chess competition	RTM Nagpur University

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Year	S N	Event Name	Resource Persons	Source of funding	Organized for	Outstanding Participants
2014 -15	1	Pratikruti-2015 National Project Competition	Mr. Atul parekh, Vice President VIA	NYSS Nagpur	Engineering Students from INDIA	Teams from Chennai, Bangalore, Indore, Nagpur
	2	Aarambha-1.0 Nitro-CAR race	Mr. Ajinkya Ambarkhane, ADCC Infocad Nagpur	NYSS Nagpur	Engineering Students from INDIA	Team VNIT, Nagpur
	3	Mechnova-15	Dr. M.M. Kotamkar, VNIT, Nagpur	NYSS Nagpur	Mechanical Engineering students of MGI	--
	4	Memorial Oration	Dr. U.N. Gaitonde, IIT Bombay	NYSS Nagpur	Mechanical Engineering students of MGI	--

2013 -14	1	Avishkar-2013-Innovative Project Exhibition	Dr. A. P. J. Kalam	IIPC Grant by AICTE New Delhi, NYSS Nagpur	Student from School, poly-technique and Engineering under MGI	--
	2	Pratikruti-2014 National Level Project Competition	Mr. Prashant Chouthkanthiwar, Vice-President Godrej Boyce Ltd. Mumbai	IPS Grant by AICTE New Delhi NYSS Nagpur,	Engineering Students from INDIA	Teams from RPIT Jaipur, Nirama University
	3	Mechfiesta - 2013	Dr. Surendra Gole, Vice-President, Zulelal Institute of Engineering Nagpur	NYSS Nagpur, DCS Nagpur,	Engineering Students from Vidarbha	--
2012 -13	1	Pratikruti-2013 State Level Project Competition	Mr. Vishram Jamadar, President, SSI, MIDC Nagpur	NYSS Nagpur, ADDC Nagpur	Engineering Students from Maharashtra	Team from Satara, Nagpur, Amaravati, Gondiya
	2	Mechfiesta - 2012	Dr. I.K. Chopade VNIT, Nagpur	NYSS Nagpur, DCS Nagpur,	Engineering Students from Vidarbha	--
2011 -12	1	SPANDAN-12 National Level Student's Paper Presentation Competition	Dr. Vedprakash Mishra	NYSS Nagpur, DCS Nagpur, ADCC Nagpur	Engineering Students from INDIA	Team from Lovely University, Punjab
	2	Mechfiesta 2011	Prof. B.D. Shiwalkar, VNIT, Nagpur	NYSS Nagpur, DCS Nagpur, BAJAJ Planet Nagpur	Engineering Students from Vidarbha	--

21. Student profile course-wise:

Year	Name of Program with Intake	No. of Enrolled/ Admitted		Pass Percentage (%)	
		Male	Female	Male	Female
Admission Year (2011-12) Passing Year (2014-15)	UG –ME (158)	134	24	75.93	79.16
Admission Year (2013-14) Passing Year (2014-15)	PG – CC (17)	14	03	100	100
Admission Year (2013-14) Passing Year (2014-15)	PG – PE (22)	20	02	100	100
Admission Year (2010-11) Passing Year (2013-14)	UG –ME (159)	134	25	78.3	80
Admission Year (2012-13) Passing Year (2013-14)	PG – CC (18)	16	02	93.5	100
Admission Year (2012-13) Passing Year (2013-14)	PG – PE (15)	15	00	88.4	NA
Admission Year (2009-10) Passing Year (2012-13)	UG –ME (156)	140	16	85	56.25
Admission Year (2011-12) Passing Year (2012-13)	PG – CC (18)	13	05	92.3	100
Admission Year (2011-12) Passing Year (2012-13)	PG – PE (24)	22	02	100	100
Admission Year (2008-09) Passing Year (2011-12)	UG –ME (151)	140	11	79.28	63.63
Admission Year (2010-11) Passing Year (2011-12)	PG – CC (15)	12	03	100	100
Admission Year (2010-11) Passing Year (2011-12)	PG – PE (24)	21	03	71.4	33.3

22. Diversity of students:

Year	Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
2014-15	UG (188)	Nil	95.21 (179)	4.79 (09)	Nil
	PG (36)	Nil	100 (36)	Nil	Nil
	PhD (01)	Nil	100 (01)	Nil	Nil

Year	Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
2013-14	UG (187)	Nil	96.25 (180)	3.75 (07)	Nil
	PG (41)	2.43 (01)	95.12 (39)	2.43 (01)	Nil
	PhD (03)	Nil	100 (03)	Nil	Nil
2012-13	UG (126)	Nil	92.06 (116)	7.94 (10)	Nil
	PG (31)	Nil	96.78 (30)	3.22 (01)	Nil
	PhD (02)	Nil	100 (02)	Nil	Nil
2011-12	UG (127)	Nil	90.55 (115)	9.45 (12)	Nil
	PG (36)	Nil	100 (36)	Nil	Nil
	PhD (13)	15.38 (02)	84.62 (11)	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Year	Number of students Cleared Examinations					
	GATE	GRE/ GMAT	CAT	Defense Services	Civil Services	Any Other
2014-15	46	2	-	-	-	-
2013-14	27	3	-	-	-	-
2012-13	22	2	-	-	-	-
2011-12	16	2	-	1	-	-

24. Student progression

Student Progression	Percentage against Enrolled				
	2010-11	2011-12	2012-13	2013-14	2014-15
UG to PG	10.41	6.89	10.19	11.24	14.56
PG to Ph.D.	-	-	-	-	-
Ph.D. to Post-Doctoral	Nil	Nil	Nil	Nil	Nil
Employed Campus Selection	48.4	42.1	36.8	41.9	44.7
Off Campus Selection	-	-	8.33	5.2	5.2
Entrepreneurs/Self Employment	-	-	1.4	-	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	29 / 38 = 76 %
from other universities within the State	09/38 = 24%
from other universities from other States	NIL

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Sr. No.	Name of Faculty	Degree Awarded	Degree Awarding Year
1	S.S.Chaudhari	Ph.D.	2011
2	S.G. Mahakalkar	Ph.D.	2015
3	Jayant P. Giri	Ph.D.	2015
4	Sandip S. Khedkar	Ph.D.	2015
5	Rajkumar B. Chadge	Ph.D.	2015
6	S.D.Kshirsagar	Ph.D.	2015
7	S.T. Bagde	Ph.D.	2015

27. Present details about infrastructural facilities

SN	Infrastructure facility	Details related to Department	Numbers Available
1	College Library	Book Titles	5395
		Book Volumes	16478
		Journals (Print + Online)	28
		Magazines & Periodicals	36
		E-Recourses (CD/DVD etc)	145
		E-Books	9709
2	Departmental Library	Book Titles	160
		Project Reports (UG/PG)	330
3	Internet facilities for staff and students in the department	No. of Computers (Staff + Lab)	206
		No. of Computers with Internet Facility	206
4	Class Rooms with ICT Facility	No. of Class Rooms with ICT Facility	05
5	Student Laboratories	No. of Student Laboratories	18
6	Research Laboratories	No. of Research Laboratories	01

28. Number of students of the department getting financial assistance from College.

UG

Year	No. of students Getting Financial Assistance For			
	GATE Exam	Final Year Project	Paper Publications	Fee Concession
2014-15	60	61	-	218
2013-14	72	56	-	183
2012-13	-	48	-	204
2011-12	-	40	-	184

PG

Year	No. of students Getting Financial Assistance For			
	Final Year Project	Paper Publications	Fee Concession	Any Other
2014-15	-	Nil	Nil	-
2013-14	-	Nil	Nil	-
2012-13	-	Nil	Nil	-
2011-12	-	Nil	Nil	-

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. Nil

30. Does the department obtain feedback from?

The feedback is collected for all the courses: **YES**

1. Faculty on curriculum as well as teaching learning evaluation? If yes, how does the department utilize it?

Course completion report: At the end of every semester all subject teachers are submitting the course completion report in which they mention no. of lecture engaged and any difficulty they came across for course completion during the session.

Informal Feedback from faculty: In the departmental meeting, Head of the department address various issues regarding academics and all faculty members were discussed about the facilities, course difficulty and curriculum constraints if any in length. All the related points are discussed in the meeting of Board of Studies.

2. Students on staff, curriculum as well as teaching learning evaluation and what is the response of the department to the same?

Feedback collection process: Feedback is collected by the office of Dean Academic Matters. Once each before MSEs and one before ESE for autonomy programs, once for every programs.

Percentage of students participating: Around 85 to 90 percentage of students participated in the feedback process. The feedback is analyzed on computers to assess the teaching capabilities, teachers' habits, usage of technology in the classroom, subject contents and overall satisfaction level of students.

Corrections required in each teacher's delivery method, improvement in technical contents through usage of technology, effectiveness of the teacher and finally the grading of teachers on the basis of feedback collected is arrived at through the analysis

- The Feedback Reports on teaching learning process are discussed with the teachers by Head of the Department in informal meeting. A special committee consists of the Principal, Dean (Academic Matters) and head of the department interacts with the teachers with score less than the benchmark score to understand the problems and to exhort the teacher to perform better.
- Basis of reward/corrective measures: Teachers with very good score are issued the appreciation letters while those with the low score are advised to introspect for the improvement. They are issued the letters to improve the performance. They are helped by the seniors in the department too. The special training sessions by the qualified third party agency is engaged to help the teacher whenever needed. In case the feedback is very poor and the teacher has shown no significant improvement, then he is asked to leave.
- The extraneous factors, like hard / soft attitude of the instructor are considered.
- The result of the subject taught by the teacher is also considered

3. Alumni and employers on the programmes and what is the response of the department to the same?

Yes. It is taken into consideration and used to introduce new methodologies in teaching, learning and evaluation. According to the guidance of the employers during the academic audit at the end of the academic year the department is able to check the curricular needs.

- The feedback from alumni is taken in the alumni meet.
- The feedback form is given to Industry when they come for campus and is normally received by mail.
- The feedback from parents is taken during parents meet.

- The feedback from alumni and industry is analyzed by Training and placement department and parent's feedback is analyzed by respective academic departments.

The major corrective actions based on feedback

- Infrastructure improvement by providing Auditorium of capacity more than 500
- Training on communication skills, Personality Development Programs
- The period for books borrowed increased from 2-3 weeks
- Improvement in sanitary and drinking water facility
- Modification in the course content
- Introduction of new practical
- Student development programmes like GENNEXT, TiE and CRT

31. List the distinguished alumni of the department

S.N.	Name of Alumini	Designation	Employer / Entrepreneur
1	Arun Dhir	Director	Arun Enterprises, Delhi
2	Hemant Adgaonkar	MD	Conjoin Ltd., Nagpur
3	Sushant Sinha	Plant Head	Veena Ind. Pithampur, Indore
4	Ajay Dhawanagle	Managing Director	Star Bus, Nagpur
5	Bhupendra Singh	CEO	Century Cements, Raipur
6	Mahesh Mujumdar	DGM Mechanical	Birla Copper, Dahej, Gujrat
7	Ranjan Pimprikar	Plant Head	Indian Oil Corporation Ltd.
8	Chinta Srinivasan	Sr Project Manager	SpecTec Asia Pacific, Singapore
9	Jagdish Lanjewar	Director	Sun Environment Ltd, Nagpur
10	Sandeep Bhadade	Manager	M & M Ltd, Nagpur

32. Give details of student enrichment programmes (special lectures / workshops / seminar with external experts.

2014-15

SN	Event Topic	Expert Details	Date
1	Heat Transfer	Dr. U.N. Gaitonde, IIT Bombay	13/02/2015
2	Opportunities in Higher Studies	Mr. Lyod, Director ICE	21/02/2015
3	Personnel life Mentoring for higher Studies in Abroad	Dr. Samudranil Chatterji, Freelancer	16/03/2015

2013-14

SN	Event Topic	Expert Details	Date
1	Hypermesh	Mr. Chaitanya Deshpande from Altair Ltd. Bhopal	04/04/2014
2	Optistruct	Mr. Prasanna Joshi, CAD/CAM GURU Pune	05/04/2014

2012-13

SN	Event Topic	Expert Details	Date
1	Furnace operation	Mr. Vivek Vaidya, ISPAT Industries Nagpur	11/11/12
2	Design for Product Success	Devdas Shetty, Professor of Mechanical Engineering Director of the Engineering Application Center (EAC) , University of Hartford	01/02/13
3	Laser Manufacturing and Photonics	Prof. Tom Epps, Professor of Electrical & Computer Engineering, University of Hartford	02/02/13

2011-12

SN	Event Topic	Expert Details	Date
1	Recent trends in Material Handling Systems	Prof. B.D. Shiwalkar, VNIT Nagpur	07/09/2011
2	Self Motivation Techniques	Dr. S.V. Gole, NIT Nagpur	13//12/12

33. List the teaching methods adopted by the faculty for different programmes.

- Lecture based Interactive learning
- Computer-assisted/Teaching aids based Learning
- Experimental/Demonstrative Learning
- Seminars
- Brain Storming Session
- Group Discussion
- Use of NPTEL/DTEL Learning material/e-resources
- Tutorials & Assignment

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Individual course coordinator (teacher) assessed their attainment of Course Outcomes (CO).
- Attainment of Program Outcomes (PO) through direct and indirect methods is calculated and compiled by course coordinator
- Compiled data of individual course is handed over to class teacher
- At the department level the PO attainment of all year is compiled and systematically analyzed.
- Achievement of Program Educational Objectives (PEO) is calculated on the basis of mapping of PO.
- The attainment of PO and achievement of PEO are checked with benchmark.
- Corrective actions are initiated on the basis of observation of attainment of PO and achievement of PEO.

35. Highlight the participation of students and faculty in extension activities.

Year	SN	Name of Extension Activity	No. of Faculty & Students Involved
2014-15	01	Tree plantation – 15 August 2015	Faculty – 08 Students - 17
	02	Swach Bharat Abhiyan – Clean up Drive – 26 January 2015	Faculty – 04 Students - 22
2013-14	01	Blood Donation Camp – 23 December 2013	Faculty – 04 Students - 93
	02	Kshitij – Grocerry Donation	Faculty – 45 Students - 18
2012-13	01	Kshitij – Old Cloth Donation	Faculty – 45 Students - 18

36. Give details of “beyond syllabus scholarly activities” of the department:

Pratikruti – National Level Project Competition

The National level project competition was organized by Mechanical Engineering Department, Yeshwantrao Chavan College of Engineering, Nagpur from last three successive years i.e. 2013, 2014 and 2015. Every year, about 600 to 800 students from all over the country participated in this event. Winners of the competition were awarded by cash prizes and certificates.



Avishkar – 2013

“Innovative Project Exhibition” for the Students of YCCE, SDMP and VTC was organized on 19 December 2013. This Innovative Project Exhibition was inaugurated by the hands of late. Dr. A.P.J. Abdulkalam where students were also interacts with him during exhibition. The concept behind this was based on future technological development which will be beneficial for students as well as to the society. This event was not a competition. Sole Purpose of organizing this event was to inculcate learning culture among the students to provide vents to their inherent skills with innovative ideas and nurture their candidature for the future of nation. Vision behind this exhibition was to provide platform for budding students to think and view an expected scenario of engineering and technology in the year 2030 onwards.



37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

Programme	Accrediting Agency	Period
B E (Mechanical Engg.)	National Board of Accreditation, New Delhi	Accredited for 5 Years from February 6, 2003 (2003-2008) Reaccredited for 5 Years from March 13, 2009 (2009-2013)

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC of the department)

Strengths

- Qualified, motivated faculty
- Faculty retention, quite high.
- Department has been Recognized as approved research center by RTM Nagpur University
- Student centric academic training programs frequently conducted.
- Active student societies such as SAE, MATRIX, and ISHRAE.

Weaknesses

- Inadequate industrial training for faculty
- Professional exposure of staff is low
- Lacking in consultancy

Opportunities

- Can provide consultancy in areas of manufacturing, heat power engineering and materials engineering.
- Tie-up with Foreign Universities
- Located in industrial area

Challenges

- Adequate infrastructure for existing curriculum
- A demand for core branches as Mechanical Engineering has increased.
- Other colleges are likely to start this branch.

39. Future plans of the department.

- In-house training programmed for new faculty.
- Industrial training programmed for faculty and students.
- Modernization of laboratories to cope up with the present industrial scenario.
- Enhancing research activity.
- Promote UG/PG students for carrying out industrial, design and fabrication projects.

Electrical Engineering Department

1. Name of the Department & its year of establishment

- Department of Electrical Engineering
- Established in 1986

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Level	Programme of Study	Started in Year	Current Intake
UG	B. E. in Electrical Engg. (Shift I)	1986	120
	B. E Electrical Engg. (Shift II)	2012	60
PG	M. Tech in Integrated Power Systems Engg.	2004	18
PhD	Ph. D. & ME (Res.)	2009	17

3. Interdisciplinary courses and departments involved:

The interdisciplinary courses and departments involved is as given below:-

S.N.	Subject	Departments Involved
1	Network Analysis	Electronics Engineering,
2	Network Analysis	Electronics & Telecommunication
3	Control System Engineering	Electronics Engineering,
4	Control System Engineering	Electronics & Telecommunication
5	Renewable Energy Generation System	All branches except Electrical. Subjects offered by Electrical dept. for students of other departments.
6	Applications of Electrical Machines	
7	Electrical Energy Audit & Safety	
8	Utilisation of Electrical Energy	

4. Annual/ semester/choice based credit system:

Sr. No.	Course	Name of Program	Credit System
1	UG	B.E ElectricalEngineering	Semester Based Credit System
2	PG	M.Tech (Integrated Power Systems)	
3	PhD	Electrical Engineering	-----

5. Participation of the department in the courses offered by other departments

Electrical engineering Students opt for compulsory courses offered by other departments.

The students of Electrical engineering department register/opt for the free elective courses offered by the other departments.

The details are as indicated in the table:

Subject	Department	Semester
Engineering Mathematics III	Mathematics & Humanities	III
Analog Electronics	Electronics Engineering	III
Advanced Mathematical Techniques	Mathematics & Humanities	IV
Microprocessors & its Applications	Electronics & Telecommunication	V
Engineering Economics	Mathematics & Humanities	V
Engineering Management	Mathematics & Humanities	VI
FE-I: Environmental Management	Civil Engineering	VI
FE-I: Building Services Engineering		
FE-I: Operation Research Technology	Mechanical Engineering	VI
FE-I: Automobile Engineering		
FE-I: SQL/PLSQL	Computer Technology	VI
FE-I: Linux Operating system		
FE-I: Web Technology	Information Technology	VI
FE-II: Elements of Earthquake engineering	Civil Engineering	VII
FE-II: Air-pollution & Solid waste mgt.		
FE-II: Total quality management	Mechanical Engineering	VII
FE-II: Reliability Engineering		
FE-II: Multimedia and Animation	Computer Technology	VII
FE-II: Current Trends and Technologies		
FE-II: Applications of Computer Networks	Information Technology	VII

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professor	03	01	01	01
Associate Professors	07	06	01	02
Asst. Professors	26	31	01	--
Visiting Prof.	-	01	-	-
Total	36	39	03	03

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Name	Qualification	Designation	Specialization
Dr. R. M. Moharil	Ph. D.	Professor	Renewable Energy
Dr. S. G. Kadwane	Ph. D.	Professor	Control System
Prof. Mrs.A. Y.Fadnis	M.E. by Research, Ph.D.(pursuing)	Associate Professor	Electrical Drives
Dr. P. M. Meshram	Ph.D.	Associate Professor	Power Electronics
Prof. S.S. Gokhale	M.Tech, Ph.D. (pursuing)	Associate Professor	Power Systems
Prof. R.N. Nagpure	B.E.	Associate Professor	Control System
Dr. (Mrs).S. P. Adhau	Ph.D.	Associate Professor	Renewable Energy
Prof. R. M. Gimonkar	M.Tech.	Associate Professor	Power System
Prof. J. A. Shaikh	B.E.	Associate Professor	Power System
Prof. H. C.Mandhania	B.E.	Associate Professor	Electrical Machines
Prof. P. M. Deoghare	M.Tech.	Assistant Professor	Power System
Prof. B. Y. Bagde	M.Tech., Ph.D. (pursuing)	Assistant Professor	Power System
Prof. A. P. Munshi	M.Tech., Ph.D. (pursuing)	Assistant Professor	Renewable Energy
Prof. P. S. Patil	M.Tech., Ph.D. (pursuing)	Assistant Professor	Power System
Prof. B. S. Sudame	M.Tech.	Assistant Professor	Power System
Prof. S. P. Gawande	M.Tech., Ph.D. (pursuing)	Assistant Professor	Power Electronics
Prof. S. B. Rewatkar	M.Tech.	Assistant Professor	Power System
Prof. Trupti Tembhekar	M.Tech.	Assistant Professor	Power System
Prof. N. T. Sahu	M.Tech.	Assistant Professor	Electrical Drives
Prof. X. R. Pote	M.Tech.	Assistant Professor	Renewable Energy
Prof. S. L. Tiwari	M.Tech.	Assistant Professor	Power Electronics
Prof. A. S. Lilhare	M.Tech.	Assistant Professor	Electrical Drives
Prof. V. R. Doifode	M.Tech.	Assistant Professor	Power System
Prof. P. B. Joshi	M.Tech.	Assistant Professor	Renewable

Name	Qualification	Designation	Specialization
			Energy
Prof. P.S. Shete	M.Tech.	Assistant Professor	Power System
Prof. M.S. Shastrakar	M.Tech.	Assistant Professor	Power System
Prof. J. M. Kumbhare	M.Tech.	Assistant Professor	Power Electronics
Prof. U. V. Waghmare	M.Tech.	Assistant Professor	Power System
Prof. N. P. Wasnik	B.E., M.Tech	Assistant Professor	Power System
Prof. R. S. Khonde	M.Tech.	Assistant Professor	Power Electronics
Ms. V. L. Meshram	M.Tech.	Assistant Professor	Power Electronics
Ms. Rajshree Bansod	B.E	Assistant Professor	Power Electronics
Mr. Abhishek Joshi	B.E.	Assistant Professor	Power Electronics
Mr. A. R. Tikle	M.Tech.	Assistant Professor	Control System
Ajinkya Sonawane	M.Tech.	Assistant Professor	Power Electronics
Komal Ambhorkar	M.Tech.	Assistant Professor	Power Electronics
Ragini Bele	M.Tech.	Assistant Professor	Power System
Gaurav Gondahrekar	M.Tech.	Assistant Professor	Power Electronics
Mona Marodkar	M.Tech.	Assistant Professor	Power System
Sandeep Gaigowal	M.Tech.	Assistant Professor	Power Electronics

8. Percentage of classes taken by temporary faculty – programme-wise information:

Year	Name of Programme	% of classes taken by temporary faculty
2014-15	UG	10.41%
	PG	Nil
2013-14	UG	Nil
	PG	Nil
2012-13	UG	10.98%
	PG	Nil
2011-12	UG	5.14%
	PG	0%

9. Programme-wise Student Teacher Ratio:

Year	STR (UG)		STR (PG)	
	As per actual Strength	As per Intake	As per actual Strength	As per Intake
2015-16	21.18	19.2	12	12
2014-15	19.22	18.66	11.67	12
2013-14	18.17	17.21	12	12
2012-13	16.27	14.72	9.67	12
2011-12	14.95	12.6	11.33	12

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

	Sanctioned	Filled
Administrative Staff	02	02
Academic Support Staff (Technical)	12	12

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

Title of Research Project	Funding Agency	Status	Name/s of Faculty Involved	Grant Received
Analysis of Z-Source Inverter for PV Application	AICTE – RPS	In Progress	Dr. S. G. Kadwane Ms. S. L. Tiwari	Rs 12,40,000/-

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:

Title of Research Project	Funding Agency	Status	Name/s of Faculty Involved	Grant Received
Laboratory Development	DST-FIST	In Progress	Dr. A. V. Patil, Civil Engineering Dr. S. G. Kadwane	5,48,625/-

13. Research facility / centre with

Department of Electrical Engineering is approved research center of R.T.M. Nagpur University for pursuing Ph.D and M.E. (by research)

14. Publications:

- number of papers published in peer reviewed journals (national / international)

Year	Journal Publications		Conference Publications		Total
	International	National	International	National	
2014-15	16	01	25	05	47
2013-14	21	01	30	16	68
2012-13	07	--	21	05	33
2011-12	06	01	23	07	37
Total	50	3	99	33	185

- Monographs: **Nil**
- Chapter(s) in Books: **Nil**
- Editing Books: **Nil**
- Books with ISBN numbers with details of publishers:

SN	Name of Author/s	Name of Book	Details (Publisher, DOI, ISBN, Year, Page Nos.)
1	Mrs. A.Y.Fadnis	Harmonics in Power System	Lap Lambert Publishing House(Online)

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.):

SN	Name of Author/s	No. of Publications Listed in International Database
1	Dr. R.M.Moharil	Scopus - 88/14 Paper
2	Dr. P.M.Meshram	Scopus - 24/10 Paper
3	S.P.Gawande	Scopus - 28/15 Paper

- **Citation Index – range / average:**

SN	Name of Author/s	Citation Index (Google Scholar)		
		Citation	h-index	i10-index
1	Dr. R.M.Moharil	168	6	4
2	Dr. P.M.Meshram	85	5	3
3	Dr. S.G.Kadwane	23	3	0
4	S.P.Gawande	4	1	0
5	P.S.Patil	10	1	1
6	P.S.Shete	5	1	0

Average Citation Index: **h-index-3** **i10-index -1.67**

- SNIP

- SJR
- Impact Factor Range: Min.: **1.40** Max.: **6.83** Average: **2.688**

15. Details of patents and income generated

S.N.	Name of Faculty	Title of Patent	Status	Income
01	Dr. R. M. Moharil	The Online Comprehensive System Monitoring, Controlling, Metering and Protection of Domestic/Distributed Generation	Published	NIL

16. Areas of consultancy and income generated

Area/ Title of Project	Organization / Industry	Name of Faculty involved	Duration of Project	Amount (Rs)
Energy Auditing and Safety	MGI, Nagpur	Dr. R. M. Moharil Prof. P. S. Shete Prof. P. B. Joshi	2014-15	56,588/-
High Voltage Engineering	GovindraoWanjari College of Engg., Nagarjuna College of Engg., Nagpur	Prof. B. S. Sudame	2013-15	25,000/-

17. Faculty recharging strategies:

- **Permissions for pursuing higher studies**
As per the provisions of the policy to promote acquisition of higher qualification by the faculty, 15 days study leave in one semester can be availed for doctoral research related work. During the term of the report 09 faculty members have availed this facility. In addition, the academic assignments of such faculty members were rescheduled to suit the mandatory course work to be done at the place of research.
- **Attending faculty development & training programmes**
Permission and financial assistance given to faculty members attending faculty development programmes or training programmes as per the training needs identified by the department.
- **Permissions & Financial assistance for attending workshops & conferences etc.**
As per policy the financial assistance for paper presentation / attending workshops etc. is extended in the form of registration, travelling and incidental expenses.

- **Skill upgradation training for faculty**

Newly recruited faculty members are deputed for skill upgradation training to specialized organizations.

- **Promotions to higher posts as per availability**

The faculty members are promoted to higher position after acquisition of higher qualification/ training/expertise under Career Advancement Scheme and Internal Promotion Scheme.

- **Faculty Mentor Scheme**

The junior faculty works in tandem with the senior faculty of the department for quality teaching of the courses.

18. Student projects

- percentage of students who have done in-house projects including inter-departmental
- percentage of students doing projects in collaboration with industries / institutes

Year	UG Projects		PG Projects	
	In-House	Collaborative with Industry/ Institutes	In-House	Collaborative with Industry/Institutes
2014-15	22/23 =95%	01/23 = 4.35%	100%	--
2013-14	20/21 = 95%	01/21=4.76%	100%	--
2012-13	16 = 100%	--	100%	--
2011-12	10 =100%	--	100%	--

19. Awards / recognitions received at the national and international level by

- Faculty

S.N.	Name of Faculty	Award/Recognition Details	Awarding Organization
01	Prof. J. A. Shaikh	State Committee Member Prime Minister's Fifteen Point Programme Implementing And Monitoring Committee (M.S.) Awards At The Hands Of President Of India For Role Model	Govt. of Maharashtra / Govt. of India

02	Dr. R. M. Moharil Dr. S. G. Kadwane Dr. P. M. Meshram Dr. S. P. Adhau	Reviewer of International Journal / Book / Conference	IEEE,IET,Elsevier Journals
03	Mr. P. M. Meshram Mr. S. P. Adhau	Best Paper presentation Award in International Conference	Chiang Mai Thailand
04	Dr. R. M. Moahril	Best Case Study In STTP	SVNIT, Surat

• **Doctoral / post doctoral fellows :**

SN	Name of Faculty	Doctoral/Post- Doctoral Fellow	Year of Awarding
1	Dr. S. P. Adhau	PhD	2015
2	Dr. P. M. Meshram	PhD	2015

• **Students**

Year	S N	Name of Student/s	Award/Recognition Details	Awarding Organization
2014-15	1	Ms. Sayali Pagrut & Team	TCS Best Project Award	TCS
	2	Mrunali Kalbut	Best Project	K.K.Wagh CoE Nashik
2013-14	1	Mr. Amit Agrawal	TCS Best Student Award	TCS
2012-13	1	Ms. Aditi Choudhari	TCS Best Student Award	TCS
2011-12	1	Mr. Amit Chopade Aditya Wadode Vipinkumar Meshram	1 st Prize for Best Paper Award	YCCE, Nagpur
	2	Mohd. Mushtaque Ravi Ranjan Kumar Mukesh Tiwari	1 st Prize for Best Paper Award	Dept. of Electrical Engg. YCCE
	3	Bablu Kumar Rasikraj Mude Ravi Singh Sumit Kumar Singh Tushar Lilhare	1 st Prize for Best Paper Award	SOFEE & Dept. of Electrical Engineering, YCCE

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Year	SN	Event Name	Resource Persons	Source of Funding	Organized for	Outstanding Participants
2014-15	1	Optimisation : Engineering Applications And Research Opportunities 18-22/05/2015	Faculties from NITs	YCCE Nagpur	Faculty	--
	2	Control System workshop 2-12/12/2014	Faculties from IITs	NMEICT through IIT Kharagpur	Faculty	--
2013-14	1	Emerging Trends and Applications of Solar Systems, 05-6/12/2013	Dr. S. Dambhare, COEP Pune	AICTE	Faculty	--
	2	MATLAB Applications To Electrical Engineering 29-30/10/2013	Faculties from VNIT& YCCE	YCCE Nagpur	Student	--
2012-13	1	Two Days' Workshop on OrCAD Software 05 – 06/07/ 2012	Mr. Shreenandan Rao Y. FTD Automation Pvt. Ltd., Bangalore	YCCE Nagpur	Faculty	---
2011-12	1	One Day workshop on Intellectual Property Rights 07/01/ 2012	Dr.K.S. KardamDy. Controller of Patents & Head Patent Office, New Delhi, Ms.SunitaGoel, Mumbai	R&D Cell of YCCE	Faculty	--
	2	STTP on Recent Trends in Renewable Energy Systems, 11-15/10/2011	Dr. S. D. Pohekar, Tolani Marine Engg. College Dr. P. S. Kulkarni, Dr. M. V. Aware, VNIT Nagpur	ISTE Sponsored	Faculty	--

21. Student profile course-wise:

Year (YG)	Name of the Course (refer question no. 2)	Selected/Enrolled		Pass percentage	
		Male	Female	Male	Female
2014-15	UG	120	33	99/120=82%	26/33=78.78%
	PG	09	09	7/9= 77.78%	7/9= 77.78%
	PhD	--	--	--	--
2013-14	UG	71	34	63/71=88%	33/34=97%
	PG	08	10	7/8=87.5%	10/10=100%
	PhD	01	--	--	--
2012-13	UG	58	23	28/58=48%	17/23=73%
	PG	12	06	08/12=66.67%	3/6=50%
	PhD	02	02	--	--
2011-12	UG	60	16	25/60=41.67%	11/16=68.75%
	PG	08	07	04/08=50%	06/07=85.72%
	PhD	03	--	--	--

22. Diversity of students:

Year (YA)	Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
2014-15	UG	-	95.96%	4%	--
	PG	--	100%	--	Nil
	PhD	--	--	--	--
2013-14	UG	--	97.87%	2.12%	Nil
	PG	11.12%	88.89%		Nil
	PhD	--	100%	--	--
2012-13	UG	--	97.34%	2.67%	Nil
	PG	--	100%	--	Nil
	PhD	25%	75%	--	--
2011-12	UG	--	85.89%	14.10%	--
	PG	11.11%	100%	Nil	Nil
	PhD	--	100%	--	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Year	Number of students Cleared Examinations					
	GATE	GRE/GMAT	CAT	Defense Services	Civil Services	Any Other
2014-15	10	01	02 +04 others	--	--	--
2013-14	05	02	01+ 03 others	--	--	--
2012-13	07	02	03	--	--	01
2011-12	05	02	02	--	--	--

24. Student progression

Student Progression YG	Percentage against Enrolled			
	2011-12	2012-13	2013-14	2014-15
UG to PG	11.84%	16.04%	7.61%	2%
PG to Ph.D.	--	--	--	5.55%
Ph.D. to Post-Doctoral	--	--	--	--
Employed	46.05%	14.81%	27.61%	32.68%
• Campus Selection				
• off Campus Selection	9.21%	23.45	36.19%	5.23%
Entrepreneurs/Self Employment	--	1.23%	--	0.65%

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	85.36%
from other universities within the State	12.20%
from other universities from other States	02.44%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Sr. No.	Name of Faculty	Degree Awarded	Degree Awarding Year
1	Dr. S. P. Adhau	PhD	2015
2	Dr. P. M. Meshram	PhD	2015

27. Present details about infrastructural facilities”

SN	Infrastructure facility	Details related to Department	Numbers Available
1	College Library	Book Titles	1931+495 = 2426
		Book Volumes	9310+ 1232 = 10542
		Journals (Print + Online)	e-journals – 16
		Magazines & Periodicals	---
		E-Recourses (CD/DVD etc)	VCD : 02(21) + 01(42) VOD: 02 + 03 NPTEL: 21
2	Departmental Library	Book Titles	123
		Project Reports (UG/PG)	UG– 230, PG–45 Ph. D. – 02
		Any Other	CBTs – 25
3	Internet facilities for staff and students in the department	No. of Computers (Staff + Lab)	115
		No. of Computers with Internet Facility	99
4	Class Rooms with ICT Facility	No. of Class Rooms with ICT Facility	05
5	Student Laboratories	No. of Student Laboratories	13
6	Research Labs.	No. of Research Labs.	02

28. Number of students of the department getting financial assistance from College.

UG

Year	No. of students Getting Financial Assistance For			
	GATE Exam	Final Year Project	Paper Publications	Fee Concession
2014-15	107	48 – (46,460/-)	04	11 (273161/-)
2013-14	113	24 - (21,019/-)	--	04 (125261/-)
2012-13	37	48 - (32,140/-)	--	05 (143748/-)
2011-12	NA	18 - (10,417/-)	--	01 (10600/-)

PG

Year YG	No. of students Getting Financial Assistance For			
	Final Year Project	Paper Publications	Fee Concession	Any Other
2014-15	--	04	--	--
2013-14	--	--	--	--
2012-13	01	03	--	--
2011-12	--	06	--	--

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

With power sector expanding at rapid rate, the requirement of electrical professionals too has increased. Also the Feedback obtained from industry & parents was analyzed and after discussion with the stake holders we have taken a decision to start a new course electrical engineering (II shift) from the academic session 2013-14 to fill the gap of supply and demand.

30. Does the department obtain feedback from

1. Faculty on curriculum as well as teaching learning evaluation? If yes, how does the department utilize it?

Course completion report
Informal Feedback from faculty
Discussions in Board of Studies meetings.
HoDs monthly meeting.

2. Students on staff, curriculum as well as teaching learning evaluation and what is the response of the department to the same?

Feedback collection process: Feedback is collected by the office of Dean Academic Matters. Once each before MSEs and one before ESE for autonomy programs, once for University programs.

Percentage of students participating: Around 85 to 90 % percentage of students participated in the feedback process. The feedback is analyzed on computers to assess the teaching capabilities, teachers' habits, usage of technology in the classroom, subject contents and overall satisfaction level of students.

Corrections required in each teacher's delivery method, improvement in technical contents through usage of technology, effectiveness of the teacher and finally the grading of teachers on the basis of feedback collected is arrived at through the analysis

- The Feedback Report on teaching learning process are discussed with the teachers by Head of the Department in informal meeting. A special committee consists of the Principal, Dean (Academic Matters) and head of the department interacts with the teachers with score less than the benchmark score to understand the problems and to exhort the teacher to perform better.

- Basis of reward/corrective measures: Teachers with very good score are issued the appreciation letters while those with the low score are advised to introspect for the improvement. They are issued the letters to improve the performance. They are helped by the seniors in the department too. The special training sessions by the qualified third party agency is engaged to help the teacher whenever needed. In case the feedback is very poor and the teacher has shown no significant improvement, then he is asked to leave.
- Extraneous factors, like hard/soft attitude of teacher are considered
- The result of the subject taught by the teacher is also considered

3. Alumni and employers on the programmes and what is the response of the department to the same?

- The feedback from alumni is taken in the alumni meet.
- The feedback form is given to Industry when they come for campus and is normally received by mail.
- The feedback from parents is taken during parents meet.
- The feedback from alumni and industry is analyzed by Training and placement department and parent's feedback is analyzed by respective academic departments.

The major corrective actions based on feedback

1. Infrastructure improvement by providing Auditorium of capacity more than 500.
2. Training on communication skills, personality development programmes (MFS).
3. The period for books borrowed increased from 2-3 weeks.
4. Improvement in sanitary and drinking water facility.
5. Modification in the course content
6. Introduction of new practical.
7. Student development programme like CRT.

31. List the distinguished alumni of the department

S.N.	Name of Alumni	Present Post held	Organisation
1	Dr. Hitesh Mathur	Asso. Prof.	BITS, Pilani
2	Kunal Waghmare	Delivery & Practice Mgmt	Bristlecone, San Francisco
3	Mayank Mishra	Manager	ABB, Bhopal
4	Rohit Tikku	Manager	Reliance Industry Ltd.
5	Vivekanand Paney	Manager	Reliance Infrastructure

6	Abha Deshpande	Program Manager	Software LCG Inc.
7	Dipashree Banrjee	Senior System Engineer	IBM
8	Rajan Kinkhede	Pursuing Ph. D.	Covntry University, UK
9	Pravin Palkar	Enterprenur	Palkar Industries
10	Utkarsha Kachare	Executive Engineer	Tata Power Company Ltd

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

SN	Event Topic	Expert Details	Date
1	Conventional Energy	Mr. Dande MSEB	16/02/2015
2	Sub-Station Earthing	Prasad Koner, Director, Synergy Electrical Solutions	03/02/2015
3	Synchronous condenser	Dr. R. M. Ramteke, VNIT	26/03/2015
4	Earthing	Mr. V. S. Nagpurkar, Exec. Engg., MSEB	30/01/2015
5	Power Electronics Technology : An Overview	Dr. Amod Umarikar, IIT Inore	26/03/2015
6	Role of Extra curricular activities	Mr. Raj Akulwar	18/08/2011
7	Gas based thermal power generation	Mr. Amol A. Kelkar	08/09/2011
8	Load management		14/09/2011
9	Wavelet based protection	Mr. V. S. Kale	18/09/2011
10	Thermal Power Plants	Shri Sanjeev Nagpurkar	08/02/2012
11	Soft Skill Development	Shri Tatwawadi	10/02/2012
12	One day workshop on PLC, SCADA & Autom	M/s. Sulaxmi, Mumbai	11/08/2011

33. List the teaching methods adopted by the faculty for different programmes.

- Lecture based Interactive learning
- Computer-assisted/Teaching aids based learning
- Experimental/Demonstrative learning
- Tutorials & Assignment
- Chalk & Board Method
- NPTEL and DTEL presentations
- IEEE & other journal research papers for PG teaching
- Topics for seminars & open book test for students

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- **Tutorial Classes**
 - Tutorial classes in Timetable as per curriculum
 - Students to work out the problems/assignments to clear the individual doubts
- **Remedial Teaching**
 - Remedial teaching is made available for students
 - At the end of semester the time table is displayed
 - Difficult & important topics are discussed
 - Individual queries / doubts are solved by teacher
- **Mentoring System**
 - Mentoring System to help students individually
 - Type of Mentoring offered are through Faculty Advisor / Teacher Guardian / Class Teacher

35. Highlight the participation of students and faculty in extension activities.

The department participates in many social activities like blood donation camps, antismoking campaigns, I vote for better India campaign, Swachchata Abhiyan on campus, Nirmalya (Flower and other Waste from Worship of God) Sankalan on the occasion of Ganapati Visarjan at prominent places in the city, traffic rules awareness programmes for the students in collaboration with RTO, Nagpur and Jan Aakrosh - an NGO and many more. WINGS - a society of students of the institution is formed in 2013 which has given recognition to the initiatives and involvement of students and faculty members in all the above activities organised at college level on social responsibilities. SWAS – a society of students formed in 2014 to help needy farmers in drought hit Marathwada region and promotion of reading habits amongst young students.

In addition to this, the students have collected over 3000 pairs of used cloths for victims of calamities faced by India during last couple of years.

36. Give details of “beyond syllabus scholarly activities” of the department:

Scope for self-learning

- Possibility, motivation and scope for self-learning is already created by virtue of DTEL.
- All the teachers deliver few topics beyond syllabus, which are mentioned in the teaching plan.

- Faculty encourages the students for self-learning while giving assignments, quiz, technical paper writing contests etc.
- 08 marks are allotted in the internal assessment out of 40 marks.
- Learning facilities, and availability of materials for learning beyond syllabus
- Department of Technology Enhanced Learning (DTEL) office is established for the creation of self-learning facility for subjects according to RTMNU and autonomous syllabus.
- VoD^s & VCDs from IIT Kharagpur and NPTEL material are made available to the students for reference.
- E-books are available in campus-wide network.
- Department is organising industrial visits for students related with the courses in particular semester.
- Department organises Guest lecture by alumni, industry professionals and academician on recent topics.
- Various extra-curricular and co-curricular activities for students through student body Institution of Engineers (Students Chapter) and SOFEE (Society of Future Electrical Engineers).
- Professors from IIT's interact with faculty, Students, Research Scholar & give valuable inputs.
- Students too visits Research center like BARC, Mumbai.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

S.No.	Programme of Study	Accrediting Agencies	Type/Duration of Accreditation
1	UG in Electrical Engg	National Board of Accreditation, New Delhi	1) F. No. 28-194/2010-NBA Dated :17/10/2013 Accreditation for Two years 2) F.No.NBA/ACCR-953(W)/2007 Dated 17 th Apr. 2009 Accreditation for Three Years 3) F.No. NBA/ACCR-108/2001 Dated 11/02/2003 Accreditation for Five years
2	PG (M. Tech. IPS)	---	Applying First time for NBA

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strength:

- Well Qualified, Experienced and Motivated Faculty
- Well Equipped Laboratories
- Adequate Infrastructure
- Dedicated Supporting Staff
- Enthusiastic students
- Good Campus placement

Weakness:

- Revenue generation from Consultancy and Testing
- Less Patents

Opportunities:

- More than 20,000 MW Thermal and Renewable Generating plants in the region.
- Autonomy status awarded to college
- MNRE has declared Nagpur city as Solar City

Challenges:

- More job opportunities in Software industry
- Program run by Engineering colleges in the region

39. Future plans of the department.

- To start PG program in Renewable Energy Systems
- To make the department as center of excellence in Power Quality for Renewable Generation system
- To encourage faculty members for completion of their Ph. D. from reputed institute

Electronics Engineering Department

1. Name of the Department & its year of establishment

- Department of Electronics Engineering
- Established in 1984 with intake of 60

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Level	Programme of Study	Started in Year	Current Intake
UG	B. E. in Electronics Engg.	1984	120
PG	M. Tech in Electronics Engg.	1999	25
PG	M. Tech in VLSI Design (Shift –I)	2010	18
PG	M. Tech in VLSI Design (Shift –II)	2013	24
PG	M.E. by Research	2009	--
PhD	Electronics Engineering	2009	--

3. Interdisciplinary courses and departments involved:

The interdisciplinary courses and departments involved is as given below:-

S.N.	Courses	Departments Involved
1	Engineering Mathematics III	Applied Mathematics & Humanities
2	Network Theory	Electrical Engineering
3	Numerical Methods & Statistical Techniques	Applied Mathematics & Humanities
4	Control Systems	Electrical Engineering
5	Engineering Economics	Humanities
6	Engineering Management	Humanities
7	Data Acquisition & Signal Conditioning	CT,IT,ME,CE,EL, ETC
8	Microprocessor & Microcontroller	CT,IT,ME,CE,EL, ETC
9	Fuzzy Logic & Neural Network	CT,IT,ME,CE,EL, ETC
10	Basic of Analog and Digital Communication Systems	CT,IT,ME,CE,EL, ETC

4. Annual/ semester/choice based credit system:

S. N.	Course	Name of Program	Credit System
1	UG	B.E. Electronics Engineering	Semester Based Credit System
2	PG	M.Tech (Electronics Engineering)	
		M.Tech (VLSI Design) I- Shift	
		M.Tech (VLSI Design) II- Shift	
3	PG	M.E.by Research	NA
4	PhD	Electronics Engineering	NA

5. Participation of the department in the courses offered by other departments

Electronics Engineering Department faculty conducts the Electronic Engineering related courses offered by other departments, also

The students of Electronics Engineering Department register/opt for the free elective courses offered by the other departments.

The details are as indicated in the table:

S.N.	Courses	Department	Semester	
1	Digital Circuits and Switching Theory	Information Tech	III	
2	Logic Design	Computer Tech.		
3	Digital Circuits & Operational Amplifiers	Electrical Engg.		
4	FE-I: Renewable energy generation system	Electrical Engg.	VI	
5	FE-I: Applications of Electrical network			
6	FE-I: Environmental Management	Civil Engineering		
7	FE-I: Building Services Engineering	Mechanical Engineering		
8	FE-I: Operation Research Techniques			
9	FE-I: Automobile Engineering	Computer Tech		
10	FE-I: SQL/PLSQL			
11	FE-I: Linux Operating system	Information Tech		
12	FE-I: Web Technology			
13	FE-II: Electrical Energy Audit and Safety	Electrical Engineering		VII
14	FE-II: Utilization of Electrical Energy			
15	FE-II: Elements of Earthquake engineering	Civil Engg.		
16	FE-II: Air-pollution and Solid Waste Magt.			
17	FE-II: Total Quality Management	Mechanical Engineering		
18	FE-II: Reliability Engineering			
19	FE-II: Multimedia and Animation	Computer Technology		
20	FE-II: Current Trends and Technologies			
21	FE-II: Applications of Computer Networks	Information Tech		

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professor	04	01	02	03
Associate Professors	06	04	01	00
Asst. Professors	19	22	09	08
Total	29	27	12	11

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

S. N	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Dr. P.T. Karule	Ph.D	Professor	Embedded System	26
2	Dr. S. V. Rathkanthiwar	Ph.D	Professor & Head	Wireless Comm.	27
3	Dr. P.K. Dakhole	Ph.D	Professor	VLSI	25
4	Dr. R. D. Thakre	Ph.D	Professor	Wireless Comm.	25
5	Mr. M.S. Pawar	M. E.	Asso. Prof.	Instrumentation	27
6	Mr.S.Y. Ambatkar	M. E.	Asso. Prof.	Embedded System	27
7	Mr.A.V.Gokhale	M. Tech.	Asso. Prof.	Image & Signal Processing	23
8	Mr. A.B. Thatere	M. Tech.	Asso. Prof.	Wireless Comm.	22
9	Dr.U. Ghodeswar	Ph.D	Asst. Prof.	VLSI	12
10	Mr.P.P. Zode	M. Tech.	Asst. Prof.	VLSI	12
11	Mr.P.M.Palsodkar	M. Tech.	Asst. Prof.	VLSI	12
12	Ms. P.P.Palsodkar	M. Tech.	Asst. Prof.	VLSI	11
13	Ms. P.P.Zode	M. Tech.	Asst. Prof.	Signal Processing	09
14	Ms. R.S.Balpande	M. Tech.	Asst. Prof.	Image & Signal Processing	10
15	Ms.T.G.Panse	M. Tech.	Asst. Prof.	Wireless Comm.	09
16	Ms.M.N.Kalbande	M. Tech.	Asst. Prof.	VLSI	10
17	Ms. Y.A. Gaidhani	M. Tech.	Asst. Prof.	VLSI	08
18	Mr. Y.A. Suryawanshi	M. Tech.	Asst. Prof.	Wireless Comm.	09
19	Mr.S.M.Kakde	M. Tech.	Asst. Prof.	VLSI	15
20	Ms.R.S.Keote	M. Tech.	Asst. Prof.	VLSI	07

S. N	Name	Qualification	Designation	Specialization	No. of Years of Experience
21	Ms.S.A.Dhondse	M. Tech.	Asst. Prof.	Image & Signal Processing	07
22	Ms.S.R.Nitnavare	M. Tech.	Asst. Prof.	Instrumentation	06
23	Ms.A.D.Tijare	M. Tech.	Asst. Prof.	VLSI	06
24	Mr.A.A.Parkhi	M. Tech.	Asst. Prof.	Image & Signal Processing	05
25	Mr.K.G.Pande	M. Tech.	Asst. Prof.	VLSI	05
26	Mr.A.R.Zade	M. Tech.	Asst. Prof.	Embedded System	04
27	Mr.S.G.Singh	M. Tech.	Asst. Prof.	VLSI	04
28	Mr. A.S.Dikholkar	M.Tech	Asst. Prof.	Image Processing	04
29	Ms. S.C.Sangewar	M. Tech.	Asst. Prof.	Image Processing	05
30	Mr. A.A. Peshattiwar	M. Tech.	Asst. Prof.	VLSI	06
31	Mr.V.D. Alagdeve	M. Tech.	Asst. Prof.	Image & Signal Processing	05
32	Ms. P. Choudhari	M. Tech.	Asst. Prof.	Wireless Comm.	03
33	Ms. P. A. Jadhav	M. Tech.	Asst. Prof.	VLSI	02
34	Ms. P.A. Maturkar	M. Tech.	Asst. Prof.	Wireless Comm.	06
35	Ms. S. K. Mohod	M.Tech	Asst. Prof.	VLSI	02
36	Ms. Neha Ingley	M. Tech.	Asst. Prof.	Instrumentation	0.5
37	Mr. Saurabh Gomase	M. Tech.	Asst. Prof.	VLSI	0.5
38	Mr. Zeeshan Baig	M. Tech.	Asst. Prof.	Image Processing	0.5

8. Percentage of classes taken by temporary faculty – programme-wise information: Nil

9. Programme-wise Student Teacher Ratio:

Year	STR (UG)		STR (PG)	
	As per actual Strength	As per Intake	As per actual Strength	As per Intake
2015-16	29.33	28.8	10.75	11.16
2014-15	30.6	28.8	10.75	11.16
2013-14	31.66	28.8	9.08	9.16
2012-13	31.46	28.8	7	7.16
2011-12	29.33	28.8	6.83	7.16

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

	Sanctioned	Filled
Administrative Staff	02	02
Academic Support Staff (Technical)	12	12

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. : Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:

Title of Research Project	Funding Agency	Status	Name/s of Faculty Involved	Grant Received
Enhancement of VLSI Facility for Design and Development of System on Chip	DST FIST, Govt. of India (2006-11)	Completed	Dr. A.V. Bapat Dr. P.T. Karule Dr. P.K. Dakhole Mr. Pravin Zode	Rs. 25 Lac

13. Research facility / centre with

- state recognition
- national recognition
- international recognition

Department of Electronics Engineering is approved research center of R.T.M. Nagpur University for pursuing Ph.D and M.E. (by research)

14. Publications:

- number of papers published in peer reviewed journals (national / international)

Year	Journal Publications		Conference Publications		Total
	International	National	International	National	
2014-15	12	NIL	64	2	78
2013-14	35	NIL	81	11	127
2012-13	26	NIL	64	6	96
2011-12	10	NIL	48	2	60
Total	83	NIL	257	21	361

- Monographs: Nil
- Chapter(s) in Books:04

SN	Name of Author/s	Name of Chapter/s in Book	Details (Publisher, DOI, ISBN, Year, Page Nos.
1	Prof. P. M. Palsodkar	Floating Point-based Universal Fused Add– Subtract Unit	Advances in Intelligent Systems and Computing 236, DOI: 10.1007/978-81-322-1602-5_29, © Springer India, Publication, Year: 2014
2	Prof. S. M. Kakde	Design of optimized Modular Multiplier using Montgomery Algorithm for RSA cryptosystem	Springer Science Business + media, New York, pp361-366, DOI: 10.1007/978-1-4614-3363-7_40, Publication Year: 2013
3	Dr. S. V. Rathkanthiwar	A Novel WLAN Receiver Performance in Highly Dispersive and Nonlinear Environment	IACSIT Press, Vol. No. 57, ISBN 13: 978-981-07-4382-6 Publication Year: 2012
4	A.D. Tijare Dr. P.K. Dakhole	VLSI Design of Four Quadrant Analog Voltage Mode	Proceedings of Information and communication technologies”. ISBN 3642157653 Publication Year: 2010

- Editing Books: Nil
- Books with ISBN numbers with details of publishers: 02

SN	Name of Author/s	Name of Book	Details (Publisher, DOI, ISBN, Year, Page Nos.
1	Dr. Mrs. S. V. Rathkanthiwar	An Intelligent WLAN System Performance Evaluation in Multipath Fading Environment	Lambert Academic Publishing, Germany, ISBN-10: 3659158380 ISBN-13: 978-3-659-15838-4 Publication Year: 2012, Paperback: 268 Pages
2	Ms. Pradnya Maturkar	Digital Communication	DJ Publishers, Nagpur, ISBN:978-93-84150-19-8 Publication Year: 2015 Paperback: 200 Pages

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.): **Nil**
- Citation Index – range / average:

SN	Name of Author/s	Citation Index
1	Dr. P.T. Karule	14 (06 papers)
2	Dr. P.K. Dakhole	53 (11 papers)
3	Mr. M.S. Pawar	04 (01 paper)
4	Dr. R.D.Thakre	64 (06 papers)
5	Mr.A.V.Gokhale	8 (03 papers)
6	Mr.P.P. Zode	01 (01 paper)
7	Mr.P.M.Palsodkar	64 (05 papers)
8	Ms. P.P.Palsodkar	66 (07 papers)
9	Ms. P.P.Zode	05 (02 papers)
10	Ms. R.S.Balpande	17 (02 papers)
11	Ms.T.G.Panse	01 (01 paper)
12	Ms.M.N.Kalbande	01 (01 paper)
13	Ms.Y.AGaidhani	01 (01 paper)
14	Mr.Y.A.Suryawanshi	05 (01 paper)
15	Ms.R.S.Keote	16 (01 paper)
16	Ms.S.A.Dhondse	01 (01 paper)
17	Mr.A.A.Parkhi	04 (01 papers)
18	Mr. A.S.Dikholkar	01 (01 paper)
19	Mr. A.A. Peshattiwar	01 (01 paper)

Range of Citation Index : **01:66**

Average Citation Index : **14.61**

- SNIP : **NIL**
- SJR: **NIL**
- Impact factor – range / average: **NIL**

Impact Factor Range: Min.: Max.: Average:

- h-index: **NIL**

15. Details of patents and income generated

S.N.	Details
1	Filed Patent on “Low Power Quaternary (CAM) Cell” application number : TEMP/E-1/4333/2015-MUM dated 18.02.2015 by Dr. P.K. Dakhole
2	Filed Patent on “Data Converters for Multiple Access and Other Applications” appli.No.: 72/MUM/2009 dated 15.01.07 by Dr. A.M. Dighe
3	Filed Patent on “Generalized R-C, R-L and R-L-C Oscillators using Reconfigurable Feedback” appli. no : 420/MUM/2009 dated 25.02.2009 by Dr. A.M. Dighe
4	Filed Patent on “A Novel Approach to Improve Bit Error Rate Performance of OFDM System” application number : 2439/MUM/2014 dated 28.07.2014 by Dr. Shubhangi Rathkanthiwar
5	Filed Patent on “Performance Improvement in OFDM Transceiver System Through Self Organizing Artificial Neural Network” application number : 4096/MUM/2013 dated 27.12.2013 by Dr. Shubhangi Rathkanthiwar
6	Filed Patent on “Intelligent Diabetes Management System”, Application number:2499/ MUM/ 2013 dated 29.07.2013 by Sandeep M. Kakde
7	Received Copyrights for Teaching Material of Digital Circuits :Diary Number: 2690/2015-CO/L by M.S.Pawar, K.G.Pande, Sandeep Kakde
8	Received Copyrights for Teaching Material of Microcontroller & Interfacing:Diary Number: 2700/2015-CO/L by Prof. S.Y.Ambatkar, Prof A.R.Zade, Prof P.T.Karule
9	Received Copyrights for Teaching Material of Signals and System :Diary Number: 2703/2015-CO/L by Tejaswini Deshmukh, Prof. S.C.Sangewar
10	Received Copyrights for Teaching Material of Digital Communication :Diary Number: 2704/2015-CO/L by Prof. A.D Tijare

16. Areas of consultancy and income generated

Area/ Title of Project	Organization / Industry	Name of Faculty involved	Duration of Project	Amount
LED light driver for 48 V DC bus	Unique Automations Pvt. Ltd	Mr. A.R.Zade Ms. A.D.Tijare Ms. S.C.Sangewar	Ongoing project from 2014	1,00,000/-
Line Integration of a Bottling Plant Using PLC & SCADA	SAP Controls & Systems Pvt. Ltd	M S Pawar S M Kakde Y A Suryawanshi Ms. S.R.Nitnawre	May 2012- July 2013	1,20,000/-
Microcontroller Based Temp. Data logger	Unique Automations Pvt. Ltd	Ms. U. S. Ghodeswar Ms. M. N. Kalbande Ms. Y. A. Gaidhani	2012-2014	1,10,000/-
Embedded System	Unique Automations Pvt. Ltd	S.V.Rathkanthiwar Mr. S.Y.Ambatkar Ms. Ankita Tijare Mr. V. D. Bondre	2010-2012	1,20,000/-

17. Faculty recharging strategies:

- **Permissions for pursuing higher studies.**
As per the provisions of the policy to promote acquisition of higher qualification by the faculty, 15 days study leave in one semester can be availed for doctoral research related work. In addition, the academic assignments of such faculty members were rescheduled to suit the mandatory course work to be done at the place of research.
- **Permissions & Financial assistance for attending workshops/FDP/Training Programs etc.**
Permission and financial assistance given to faculty members attending faculty development programmes or training programmes as per the training needs identified by the department. As per policy the financial assistance for paper presentation / attending workshops etc. is extended in the form of registration, travelling and incidental expenses.
- Newly recruited faculty members are deputed for skill upgradation training to specialized organizations.
- **Promotions to higher posts as per availability.**
The faculty members are promoted to higher position after acquisition of higher qualification/ training/expertise under Career Advancement Scheme and Internal Promotion Scheme.
- **Faculty Mentor Scheme**
The junior faculty works in tandem with the senior faculty of the department for Quality teaching of the courses.

18. Student projects

- percentage of students who have done in-house projects including inter-departmental
- percentage of students doing projects in collaboration with industries / institutes

Details are given below:

Year	UG Projects		PG Projects	
	In-House	Collaborative with Industry/ Institutes	In-House	Collaborative with Industry/ Institutes
2014-15	29/33 (87.87%)	4/33 (12.12%)	63/66 (95.45%)	02/66 (3.00%)
2013-14	18/33 (54.54%)	15/33 (45.45%)	46/46 (100%)	Nil
2012-13	29/33 (87.87%)	04/33 (12.12%)	45/45 (100%)	Nil
2011-12	30/33 (90.9%)	03/33 (11%)	52/52 (100%)	Nil

19. Awards / recognitions received at the national and international level by

- Faculty

SN	Name of Faculty	Award/Recognition Details	Awarding Organization
1	Dr. S. V. Rathkanthiwar	Recognized Reviewer-2015	Elsevier: Applied Soft Computing Journal
2	Dr. S. V. Rathkanthiwar	Reviewer – From 2015	IEEE Transactions on Industrial Electronics
3	Dr. S. V. Rathkanthiwar	Advisory Committee Member for ICTIEE 2016	IUCEE (Indo-US collaborations for Engineering Education) & COEP, Pune
4	Dr. S. V. Rathkanthiwar	Technical Program Committee Member And International Review Panel Member Of Several International Conferences	IEEE conferences: ICOCOE 2015, CCE 2014, ISWTA 2014, ISBEIA 2014, ADVKIT 2014, APPEIC 2014, RFM 2013, ISBEIA 2013, ISWTA 2013, ISCI 2013, BAIAC 2013, ICCTD 2011
5	Ms. S. C. Sangewar	Best Paper Award – 2013	EISTCON, Pune
6	Dr. S. V. Rathkanthiwar	Reviewer – From 2012	IEEE Transactions on Vehicular Technology
7	Dr. S. V. Rathkanthiwar	Chair Person: International Conference ICCTD 2012 In Bangkok, Thailand	International Association of Computer Science and Information Technology
8	Dr. S. V. Rathkanthiwar	Shikshak Ratna Award-2011	Sant Tulsi Das Rashtriya Sahitya Sansad, New Delhi
9	Dr. S. V. Rathkanthiwar	Best Research Paper Presentation- 2011	SEICON 2011, IET UK
10	Dr. P. K. Dakhole	Best Teacher Award - 2011	Vidarbha Seva Samiti, Nagpur

11	Dr. P. T. Karule	Bharat Ratna Vishwesvarreya National Award	Mahatma Fule Talent search Academy, Nagpur.
12	Dr. S. V. Rathkanthiwar	Best Teacher – 2010	Maharashtra Teachers Council
13	Dr. P. K. Dakhole	Best Paper Award - 2008	IEEE International Conference on Electronics Design (ICED'08), Penang, Malaysia.
14	Dr. P. K. Dakhole	Best Paper Award - 2003	National conference on Emerging Trends in VLSI Design & Testing, NCVDAT 2003, PSG College of Technology, Coimbatore

• **Doctoral / post doctoral fellows : Nil**

• **Students**

Year	SN	Name of Student/s	Award/Recognition Details	Awarding Organization
2014-15	1	Rohit Gawali	1 st Prize, National Level Paper Presentation	YCCE, Nagpur
	2	Yash Bongirwar	1 st Prize, National Level Paper Presentation	YCCE, Nagpur
	3	Pratik Dhoble	1 st Prize , National Level Paper Presentation	YCCE, Nagpur
	4	Anshuman Satpathy	1 st Prize , National Level Paper Presentation	YCCE, Nagpur
	5	Nishikant Das	1 st Prize , National Level Paper Presentation	YCCE, Nagpur
2013-14	1	Bodele Neha Kirti	1 st Runner Up, Inter Collegiate Swimming Competition	RTMNU
	2	Khandre Pooja	Paper Presentation, National Level Techfest	Anjuman College of Engineering
	3	Sowmya Singh	1 st Prize , National Level Paper Presentation	YCCE, Nagpur
	4	Srishti Chaturvedi	1 st Prize , National Level Paper Presentation	YCCE, Nagpur
	5	Meshram Utkarsha Anil	1 st Prize, National Level Paper Presentation	YCCE, Nagpur
	6	DapurkarYashoda	Oratory Speech	NIT
	7	DapurkarYashoda Sadanand	1st Prize ,Paper Presentation, Techfest	Anjuman College

	8	Kasbekar Akshay Gajanan	1st Prize ,Paper Presentation	J.K.Shankar National Conf. Mumbai
	9	Dalal Palash Narendra	1st Prize ,IEEE Paper Presentation, Pursuit-14	IEEE
	10	Mankar Rohit Sunil	1st Prize ,IEEE Paper Presentation, Pursuit-14	IEEE
	11	Landge Tushar Suresh	1st Prize ,IEEE Paper Presentation, Pursuit- 14	IEEE
	12	Bawane Pranav Chandrakant	1st Prize, IEEE Paper Presentation, Pursuit-14	IEEE
	13	Paresh Kriplani	1st Prize , Paper Presentation, SPANDAN 2014,	YCCE, Nagpur
2012-13	1	Aniket Kalode	1st Prize Group Discussion And Personal Interview	EE, Department YCCE, ICON-13
	2	Ram Karade	1st Prize, Lan Gaming	EE, Department YCCE, ICON-13
	3	Yashoda Dapurkar	2 nd Prize, Paper Presentation	Nat. Conference by Swami Vivekanand Seva Samiti
	4	Pooja Pawar	1st Prize, Paper Presentation	YCCE, Nagpur (SPANDAN'13)
	5	Pooja Kohad	1st Prize, Paper Presentation	YCCE, Nagpur (SPANDAN-13)
	6	Dhanashree Nikhare	1st Prize, Paper Presentation	YCCE, Nagpur (SPANDAN-13)
	7	Dhanashree Deo	1st Prize , Paper Presentation	YCCE, Nagpur (SPANDAN-13)
	8	RuchaThombre	1st Prize , Paper Presentation	YCCE, Nagpur (SPANDAN-13)
2011-12	1	Aman Agrwal	3 rd Prize Electrox Paper Presentation	GWCOET, Nagpur
	2	Roham Benodekar	3 rd Prize Invenio	YCCE,Nagpur
	3	Mansi Raje	2 nd Prize , Student Awareness Contest	VIT Pune
	4	Spana Thote	1st prize Spandan-2012 Paper Presentation	YCCE,Nagpur
	5	Sayali Bhisare	1st prize Spandan-2012 Paper Presentation	YCCE,Nagpur

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Year	SN	Event Name	Resource Persons	Source of funding	Organized by	Outstanding Participants
2014-15	1	STTP On Advanced In VLSI & DSP Design	Dr. A.G.Keskar VNIT Dr. R.M.Patrikar VNIT	YCCE	Dept. of Electronics Engg, YCCE	8
	2	STTP On Pedagogy For Effective Use Of ICT In Engineering Education	IIT Bombay	IIT Bombay	Dept. of Electronics Engg, YCCE	7
2013-14	1	Workshop On Xilinx ISE Tools	Er.Mayur Deshmukh (CG-coreel)	YCCE	Dept. of Electronics Engg,	17
	2	ISTE Workshop On Signal & System Conducted By IIT Bombay	Faculty from IIT Bombay	IIT Bombay	Dept. of Electronics Engg, YCCE	28
2012-13	1	Workshop On Research Methods In Educational Technology	Faculty from IIT Bombay	IIT Bombay	Dept. of Electronics Engg, YCCE	03
	2	STTP On Analog Electronics	Faculty from IIT Bombay	IIT Bombay	Dept. of Electronics Engg, YCCE	22
2011-12	1	ISTE Workshop On Basic Electronics	Faculty from IIT Bombay	IIT Bombay	Dept. of Electronics Engg, YCCE	12
	2	Workshop On Virtual DSP Lab	Faculty from IIT Bombay	IIT Bombay	Dept. of Electronics Engg, YCCE	01
	3	Workshop On Reconfigurable Hardware	Faculty from IIT Bombay	IIT Bombay	Dept. of Electronics Engg, YCCE	04

21. Student profile course-wise:

Year	Name of the Course (refer question no. 2)	Selected/Enrolled		Pass percentage	
		Male	Female	Male	Female
2014-15	UG	83	69	77.1%	94.2%
	PG (EE)	17	8	88.2%	100%
	PG (VLSI Design-I)	10	8	100%	100%
	PG (VLSI Design-II)	11	13	90.90%	100%
2013-14	UG	87	59	90.8%	88.13%
	PG (EE)	11	14	100%	92.85%
	PG (VLSI Design-I)	6	12	100%	100%
	PG (VLSI Design-II)	13	9	--	--
2012-13	UG	95	62	74.73%	87.1%
	PG (EE)	12	13	91.66%	100%
	PG (VLSI Design-I)	7	11	100%	90.90%
	PG (VLSI Design-II)	11	14	--	--
2011-12	UG	95	50	73.68%	84%
	PG (EE)	8	17	37.5%	94.11%
	PG (VLSI Design-I)	8	10	100%	88.89%
	PG (VLSI Design-II)	--	--	--	--

22. Diversity of students:

Year	Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
2014-15	UG	--	97.6 %	2.4%	--
	PG	1.49%	100%	--	--
2013-14	UG	--	93.6%	6.4%	--
	PG	5.97%	100%	--	--
2012-13	UG	--	94.44%	5.56%	--
	PG	8.33%	100%	--	--
2011-12	UG	--	87.5%	12.5%	--
	PG	8.33%	100%	--	--

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Year	Number of students Cleared Examinations					
	GATE	GRE/ GMAT	CAT	Defense Services	Civil Services	Any Other
2014-15	9	1	--	--	--	--
2013-14	14	1	--	--	--	--
2012-13	7	6	--	--	--	--
2011-12	--	3	--	--	--	--

24. Student progression

Student Progression	Percentage against Enrolled			
	2011-12	2012-13	2013-14	2014-15
UG to PG	--	--	9.58%	0.684 %
PG to Ph.D.	4.65%	4.65%	--	--
Ph.D. to Post-Doctoral	--	--	--	--
Employed Campus Selection	55.8%	30.57%	54.79%	65.13%
Off Campus Selection	11.03%	14.64%	10.95%	5.26%
Entrepreneurs/Self Employment	--	--	--	--

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	76 %
from other universities within the State	24%
from other universities from other States	NIL

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

S N	Name of Faculty	Degree Awarded	Degree Awarding Year
1	Mrs. S.V. Rathkanthiwar	Ph.D	2013
2	Mr. R. D. Thakre	Ph.D.	2014
3	Mrs. U. S. Ghodeswar	Ph.D	2015

27. Present details about infrastructural facilities

SN	Infrastructure facility	Details related to Department	Available
1	College Library	Book Titles	2446
		Book Volumes	10380
		Journals (Print + Online)	477
		Magazines & Periodicals	--
		E-Recourses (CD/DVD etc)	232
2	Departmental Library	Book Titles	322
		Project Reports (UG/PG)	205
		Any Other	--
3	Internet facilities for staff and students in the department	No. of Computers (Staff + Lab)	247
		No. of Computers with Internet Facility	52
4	Class Rooms with ICT Facility	No. of Class Rooms with ICT Facility	04
5	Student Laboratories	No. of Student Laboratories	12
6	Research Laboratories	No. of Research Laboratories	01

28. Number of students of the department getting financial assistance from College.

UG

Year	No. of students Getting Financial Assistance For			
	GATE Exam	Final Year Project	Paper Publications	Fee Concession
2014-15	131	14	--	
2013-14	160	41	--	
2012-13	86	37	--	
2011-12	Nil	77	--	

PG

Year	No. of students Getting Financial Assistance For			
	Final Year Project	Paper Publications	Fee Concession	Any Other
2014-15	02	03	--	--
2013-14	01	--	--	--
2012-13	02	--	--	--
2011-12	--	--	--	--

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Yes, the feedbacks from alumni / industry/ visiting professors/ mentors

30. Does the department obtain feedback from

1. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

- Yes. The department analyses the feedback and carries out changes according to the needs of the students.
- Course completion report
- Discussion in BoS Meeting
- Informal Feedback from faculty

2. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same

- It helps to improve the curriculum and the teaching and learning methods.
- Corrections required in each teachers delivery method
- Improving the technical contents through usage of technology

3. Alumni and employers on the programmes and what is the response of the department to the same?

- Yes. It is taken into consideration and used to introduce new methodologies in teaching, learning and evaluation. According to the guidance of the employers during the academic audit at the end of the academic year the department is able to check the curricular needs.

31. List the distinguished alumni of the department

S.N.	Name of Alumini	Designation	Employer / Entrepreneur
1	Kundan Choudhary	Manager	Ashok Leyland
2	Md Imran Khan	Project Engineer	Asian Contractors,UAE
3	Shreyas Mainde	Asst Manager	Reliance Infrastructure
4	Parag Divekar	Manager - Materials	Larsen & Toubro
5	AnshumanAnand	Consultant	Synopsys (I) EDA Software
6	Madhav Junghare	Project Manager PMP	TCS

7	Ajay Kumar Singh	Col	Indian Army
8	Ashish Dixit	Registrar	NMIMS Uni., Bangalore
9	Sandeep G Gulyani	CEO	Wire2Air
10	Urmeet Juneja	Vice President	GTL Ltd.

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

S. N	Session	Event Topic	Expert Details	Date
1	2011-12	Workshop On Value added course on LABVIEW Programming	M.S.Pawar, S.R. Nitaware	6-7/08/2011
2		Value added course on VLSI Design	P.P.Zode, P.M. Palsodkar	6-7/08/2011
3	2012-13	Two Days workshop on Microcontroller 8051 and Interfacing	A.R.Zade, K.G.Pande	21-23/07/2012
4		Two day workshop on Android Application Development	IEEE Fraternity@ YCCE & First Impression Technologies	26-27/09/2012
5	2013-14	Two days Workshop series organized for students on Hands on Training on Lab View programming	M.S.Pawar, S.R.Nitaware	14-15/03/2014
6		Two days Workshop series organized for students on Digital System Design	S.M.Kakde, Y.A.Deodhe, Pravin Zode	14-15/03/2014
7		Two days Workshop series organized for students on Hands on Microcontroller and Interfacing	A.R.Zade, S.Y.Ambatkar	10-11/03/2014
8		One day workshop organized on Engineering Education through Matlab programming under IEEE	Mr.P.M.Palsodkar Mrs.Palsodkar Mrs S. A. Dhondse	21/12/2013
9		Two days Workshop on SOLAR CLAN in Association with ENELEK Power	Mr. Mehul Patel, R& D Dept. Enelek Power IIT Bombay	19-20/10/2013
10		One day workshop on ORCAD Tools	A.R.Zade, K.G.Pande A.S.Dikholkar	31/08/2013

11		One day workshop on ORCAD Tools	A.R.Zade, K.G.Pande A.S.Dikholkar	14/09/2013
12		Advanced Wireless and Engineering Trends In Communication	Mrs. Pradnya Mathurkar, Ms. Poonam Choudhari	3/04/2013
13		One Day Workshop On Digital Circuit Design Using EDA TOOL Xilinx ISE 13.4	Somulu G., A.A.Tripathi, S.C. Sangewar	29/03/2013
14		Two Day's Workshop Hands On SEQUEL	A.B.Thatere, S.S.Jaykar, A.A. Aarkhi, A.A. Peshettiwar	29/03/2013
15		Two days workshop 'Technovision 2014' on Creativity and innovations in Engineering	Dr. Vedprakash Mishra, Dr. YugalRayalu, Dr. D. J. Tidke, S. V. Rathkanthiwar	15-16/02/2014
16		Expert session on 'Data mining and cyber security	Dr. Hemant Pendharkar Worcester State University, USA	10/08/2013
17		Expert session on 'Research and career opportunities in USA	Dr. Dipankar Dasgupta, Memphis University, USA	20/12/2013
18		Intelligent multidisciplinary Megaprojects associated with the theme 'Creativity and Innovations in engineering education	Dr. Abhijit Gupta, Northern Illinois University, USA	14/03/2014
16	2014-15	Two Day's Workshop Hands On SEQUEL	A.B.Thatere, S.S.jaykar, A.A.Parkhi, A.A.Peshettiwar	-/12/2014
17		Two Days Workshop on Advanced Soft computing and Optimization Techniques'	Dr. Durbadal Mandal, NIT, Durgapur, West Bengal Dr. Rathkanthiwar Shweta Dhondse	24-25/03/2015
18		Expert session on Need for transformations in engineering education	Dr. Krishna Vedula Emeritus Professor, University of Massachusetts, Lowell, USA	30/12/2014

19		Engineering: A global profession	Dr. Pramod Vohra, Northern Illinois University, USA	24/03/2015
20		One Week AICTE-ISTE STTP on Advances in VLSI and DSP Designs	P.M.Palsodkar, S.M.Kakde	15-19/12/2014
21	2015-16	Beyond the hills of the Multicores, lies the valley of Accelerators	Dr. Aviral Shrivastava Arizona State University, USA	16/07/2015
22		1) Software managed manycore processors 2) Programmable accelerators 3) Protection from soft errors 4) Low power computing, Multicore computing	Dr. Aviral Shrivastava Arizona State University, USA	16/07/2015
23		Two Days Workshop on Advanced Embedded systems: Industry Applications, software testing, Robotics and Mobile design	Dr. James Conrad University of North Carolina, Charlotte, USA	6- 7/10/2015
24		Two Days Workshop on Engineering without borders	IUCEE – SPEED experts Organized by NMIMS, Shirpur	21-23/08/2015

33. List the teaching methods adopted by the faculty for different programmes.

- Chalk and board / white board
- Lecture based Interactive learning
- Computer-assisted/Teaching aids based learning
- Experimental/Demonstrative learning
- Expert Sessions by Faculty from academic Institutes/Industries of repute
- Brain storming session
- Group discussion
- Use of NPTEL/DTEL learning material/e-resources/PPT
- Tutorials & Assignment
- Technical Quiz

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Department has defined a mechanism to ensure that program objectives are constantly met and learning outcomes monitored.

Department core committee (DCC) develops Vision, Mission of the department, PEOs, POs and COs of the program, ensures that Courses are aligned with objectives, defines strategic efforts to meet the objectives, and monitors the assessment processes at departmental level. DCC analyzes the survey as well as examination / placement results and submit same to the ICC for validation. ICC monitors the department activities and assesses the quality of the activities of the program from attainment of COs and POs through direct and indirect methods. The modifications & suggestions from the analysis are forwarded to the BoS meeting for discussion, course-wise corrective and preventive actions are discussed. The board of studies finalizes the modification in curricula through deliberations and organizing special curriculum development workshops involving distinguished academicians and industry personnel. DCC then implements the suggestions finalized in BoS meeting.

Learning outcomes are monitored through direct and indirect assessment methods. Direct methods of assessment are Mid-semester and End semester examination results and project work. Indirect assessment is carried out by various surveys including Student's Satisfaction Survey, Graduate Survey, Course Teacher Course End survey, Feedback from PG Alumni, analysis of comments received from Department Project Review Committee (DPRC),

35. Highlight the participation of students and faculty in extension activities.

Year	SN	Name of Extension Activity	Participants
2014-15	1	Blood Donation Camp	36 students 2 faculty
	2	Visit of Matoshri Old Age Home Adasa	35 students 4 faculty
2013-14	1	Blood Donation Camp	87 students 4 faculty
	2	Visit to 'Bharat Muk Vidyalaya', Nagpur	35 students 4 faculty
2012-13	1	Blood Donation Camp	98 students 6 faculty
	2	Orphanage Visit	26 students 4 faculty
	3	Suryanamaskar	82 students 2 faculty
2011-12	1	Blood Donation Camp	99 students 8 faculty
	2	Orphanage Visit	26 students 4 faculty

36. Give details of “beyond syllabus scholarly activities” of the department:

Beyond syllabus Value Added Courses/Training Programs etc.

S. N	Session	Event Topic	Expert Details	Date
1	2011-12	Workshop On Value added course on LABVIEW Programming	M.S.Pawar, S.R. Nitaware	6-7/08/2011
2		Value added course on VLSI Design	P.P.Zode, P.M. Palsodkar	6-7/08/2011
3	2012-13	Two day workshop on Android Application Development	IEEE Fraternity@ YCCE & First Impression Tech.	26-27/09/2012
4	2013-14	Two days Workshop series organized for students on Hands on Training on Lab View programming	M.S.Pawar, S.R.Nitaware	14-15/03/2014
5		One day workshop organized on Engineering Education through Matlab programming under IEEE	Mr.P.M.Palsodkar Mrs.Palsodkar Mrs S. A. Dhondse	21/12/2013
6		Two days Workshop on SOLAR CLAN in Association with ENELEK Power	Mr. Mehul Patel, R& D Dept. Enelek Power IIT Bombay	19-20/10/2013
7		One day workshop on ORCAD Tools	A.R.Zade, K.G.Pande A.S.Dikholkar	31/08/2013
8		One day workshop on ORCAD Tools	A.R.Zade, K.G.Pande A.S.Dikholkar	14/09/2013
9		Advanced Wireless & Engineering Trends In Communication	Mrs. Pradnya Mathurkar, Ms. P. Choudhari	3/08/2013
10		One Day Workshop On Digital Circuit Design Using EDA TOOL Xilinx ISE 13.4	Somulu G., A.A.Tripathi, S.C. Sangewar	29/03/2013
11		Two Day's Workshop Hands On SEQUEL	A.B.Thatere, S.S.Jaykar, A.A. Aarkhi, A.A. Peshettiwar	29/03/2013
12		Two days workshop 'Technovision 2014' on Creativity and innovations in Engineering	Dr. Vedprakash Mishra, Dr. YugalRayalu, Dr. D. J. Tidke, S. V. Rathkanthiwar	15-16/02/2014

13		Expert session on 'Data mining and cyber security'	Dr. Hemant Pendharkar Worcester State University, USA	10/08/2013
14		'Intelligent multidisciplinary Megaprojects' associated with the theme 'Creativity and Innovations in engineering education'	Dr. Abhijit Gupta, Northern Illinois University, USA	14/03/2014
15		Two Day's Workshop Hands On SEQUEL	A.B.Thatere, S.S.Jaykar, A.A.Parkhi, A.A.Peshettiwar	7/12/2014
16	2014-15	Two Days Workshop on 'Advanced Soft computing and Optimization Techniques'	Dr. Durbadal Mandal, NIT, Durgapur, West Bengal Dr. S. V. Rathkanthiwar Prof. S. Dhondse	24-25/03/2015
17		Expert session on 'Need for transformations in engineering education	Dr. Krishna Vedula Emeritus Professor, University of Massachusetts, Lowell, USA	30/12/2014

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

SN	Name of Accredited UG/PG Programme/s	Accrediting Agencies	Type/Duration of Accreditation
1	B.E in Electronics Engg.	National Board of Accreditation, New Delhi	NBA Accreditation – for Five years wef 06/02/2003 (NBA/ACCR -108/2001 dated 11/02/2003) NBA Re-accreditation – for Three years wef 13/03/2009 (F.No. NBA/ACCR-953(W)/2007 dated 24/03/2009) NBA Re-accreditation – for Two years wef 04/02/2014 (F.No. 28-194/2010-NBA dated 08/02/2014)
2	M.Tech in Electronics Engg.	--	NBA Accreditation – for Three Years wef 16/04/2009 (F.No. NBA/ACCR-953/2007 dated 19/05/2009)
3	M.Tech in VLSI Design	--	--

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strength:

- Qualified and Adequate faculty with good faculty retention ratio.
- 5 faculty members with PhD qualification. 14 are pursuing doctoral research work.
- Approved research centre for Doctoral/M.E. by research program
- Sufficient and qualified supporting staff.
- Well defined policies and Schemes for qualification and skill up-gradation
- MoU's with foreign universities & NIT's to develop students and faculty members of MGI capable of providing solutions to problems in global context through outreach activities including academic collaborative actions
- Well defined policies to provide financial assistance for students to appear in competitive examinations, participate in conferences and workshops, industrial visits, global exposure tours and for carrying out project work
- Interaction with professors from foreign universities and institutes of eminence and industry personnel.
- Academic autonomy
- Updated curriculum with requirements as defined by the demands of stakeholders.

Weakness:

- Less number of Industry sponsored projects
- Less number of Funded projects
- Less collaboration with industries of the region and at national level
- Insufficient interaction with scientist from research institutions.
- Comparatively lesser consultancy services

Opportunities:

- Fast track growth of multi-media applications in Wireless and Mobile communications
- Demand of research and development to pace challenges in Wireless communications, embedded systems and VLSI design.

- Demand of specialized courses in VLSI design, Wireless communications
- Entrepreneurial initiatives to provide designs and assemblies of embedded systems in Electronics market

Challenges:

- Mushroom growth of engineering institution
- Non-availability of faculty with industrial exposure.
- Campus Placement in core companies.
- To update laboratory equipments at pace comparable with rapid technological changes

39. Future plans of the department.

- Enhance R&D activities in the department and strengthen R&D facilities in emerging areas.
- Up-gradation of present laboratories to the state of art and removal of Obsolescence
- Develop center of excellence in thrust areas like VLSI, Digital Signal and Image Processing, Embedded System and wireless communications.
- Make ICT based infrastructure for enhanced teaching learning process
- All the laboratories equipped for undertaking industry sponsored projects
- Enhance quality research publications.
- Strengthen Collaborative Activities with Premier Institutions
- Upgrade Faculty Qualifications
- Enhance Interaction with Industry
- Improve Student Participation in National / International events, Competitions, design contests
- Development of faculty expertise in identified thrust areas in focused way

Electronics & Telecommunication Engineering Department

1. Name of the Department & its year of establishment

- Department of Electronics and Telecommunication Engineering
- Established in 2001-2002

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Level	Programme	Shift	Started with Intake	Year	Intake increased to
UG	B. E. Electronics and Telecommunication Engg.	I	120	2001-02	---
UG	B. E. Electronics and Telecommunication Engg	II	60	2013-14	---
PG	M. Tech in Communication Engg	---	18	2010	24
Ph.D	Electronics. Engg. Board	---	10	2012	---

3. Interdisciplinary courses and departments involved:

The interdisciplinary courses and departments involved is as given below:-

S.N.	Subject	Departments Involved
1	Engineering Mathematics III	Mathematics & Humanities
2	Network Theory	Electrical Engineering
3	Numerical Methods & Statistical Techniques	Mathematics & Humanities
4	Control Systems	Electrical Engineering
5	Engineering Economics	Mathematics & Humanities
6	Engineering Management	Mathematics & Humanities
7	List Free Elective Courses offered ETC Dept.	CT,IT,ME,CE,EL,etc.

4. Annual/ semester/choice based credit system:

Sr. No.	Course	Name of Program	Credit System
1	UG (Shift I & II)	B.E. Electronics and Telecommunication Engineering	Semester Based Credit System
2	PG	M.Tech (Communication Engineering)	
3	Ph.D	Electronics Engineering Board	--

5. Participation of the department in the courses offered by other departments

- Electronics and Telecommunication engineering department faculty conducts the electronic and telecommunication engineering related courses offered by other departments, also
- The students of electronics and telecommunication engineering department register/opt for the free elective courses offered by the other departments.

The details are as indicated in the table:

Subject	Department	Semester
FE-I: Renewable energy generation system	Electrical Engineering	VII
FE-I: Applications of Electrical network		
FE-I: Environmental Management	Civil Engineering	VII
FE-I: Building Services Engineering		
FE-I: Operation Research Technology	Mechanical Engineering	VII
FE-I: Automobile Engineering		
FE-I: SQL/PLSQL	Computer Technology	VII
FE-I: Linux Operating system		
FE-I: Web Technology	Information Technology	VII
FE-II: Electrical Energy Audit and Safety	Electrical Engineering	VII
FE-II: Utilization of Electrical Energy		
FE-II: Elements of Earthquake engineering	Civil Engineering	VII
FE-II: Air-pollution & Solid waste mgt.		
FE-II: Total quality management	Mechanical Engineering	VII
FE-II: Reliability Engineering		
FE-II: Multimedia and Animation	Computer Technology	VII
FE-II: Current Trends and Technologies		
FE-II: Applications of Computer Networks	Information Technology	VII

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professor	2	1	1	1
Associate Professor	4	2	0	
Assistant Professor	24	30	3	3
Visiting / Contract / other				
TOTAL	30	33	4	4

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D./ M.Phil., etc.)

SN	Name	Qualification	Designation	Specialization
01	Zade Prasanna Laxmichand	Ph.D	Prof.	RF Communication and Antennas
02	Mushrif Milind	Ph.D	Prof.	Image processing
03	Chawhan Manish	Ph.D.	Asso. Prof	Wireless Comm.
04	Deshmukh Rajesh	M. TECH.	Asso. Prof.	Communication Engg
05	Narlawar Milind	M. TECH.	Asst. Prof.	RF Antenna design
06	Bhoyar Dinesh Baburao	M. TECH.	Asst. Prof.	Electronics Engg.
07	Kamble Kanchan Pravin	M. E.	Asst. Prof.	Electronics Engg
08	Dubey Yogita Kewalram	M. TECH.	Asst. Prof.	Electronics Engg
09	Belsare Amoli Devesh	M. TECH.	Asst. Prof.	Electronics Engg
10	Choudhari Anagha Viraj	M. TECH.	Asst. Prof.	Electronics Engg
11	Pande Nivedita Adwait	M. TECH.	Asst. Prof.	Embedded System
12	Khade Sachin Sheshrao	M. TECH.	Asst. Prof.	RF Microwave and Electronics Engg.
13	Rehpade Nita Deodas	M. TECH.	Asst. Prof.	Digital Image Processing
14	Ghute Minal Shashikant	M. TECH.	Asst. Prof.	Image Processing
15	Chakole Megha	M. TECH.	Asst. Prof.	Communication
16	Gode Chetan	M.E.	Asst. Prof.	Embedded system
17	Keote Minal Lochan	M. TECH.	Asst. Prof.	Image Processing
18	Chiwande Sujata Sudhir	M. TECH.	Asst. Prof.	Electronics Engg
19	Niranjane Vaishali	M.TECH	Asst. Prof.	Communication
20	Masram Bharati	M.TECH	Asst. Prof.	Electronics Engg.
21	Desai Sandip Ashok	M.TECH	Asst. Prof.	Communication Engg
22	Patil Minal Suresh	M.TECH	Asst. Prof.	VLSI
23	Katre Shilpa Sunil	M.TECH	Asst. Prof.	Electronics Engg.
24	Dogre Prabhakar Domaji	M.TECH	Asst. Prof.	Microwave Engg.
25	Madankar Abhishek	M.TECH	Asst. Prof.	Electronics Engg.
26	Dongre Krushna	M.TECH	Asst. Prof.	Communication Engg
27	Kamdi Rahul	M.TECH	Asst. Prof.	Communication Engg
28	Thote Dhiraj Kamalakar	M.TECH	Asst. Prof.	Communication Engg
29	Kale Yogesh	M.TECH	Asst. Prof.	Communication Engg
30	Roy Shruti Singh	M.TECH	Asst. Prof	Wireless Comm., VLSI
31	Tembhekar Harsha	M.TECH	Asst. Prof	Comm. Engineering

S N	Name	Qualification	Designation	Specialization
32	Mawale Pravin	M.TECH	Asst. Prof	Electronics and Comm.
33	Thakre Ashish	M.TECH	Asst. Prof	Comm. Engineering.
34	Gawande Prachi Dhanraj	M.TECH	Asst. Prof	Comm. Engineering
35	Khare Smith Kashiram	M.TECH	Asst. Prof	Electronics and Telecommunication
36	Bondre Vipin Dadarao	M.TECH	Asst. Prof	Electronics Engg.
37	Tiwari Sandeep Kumar	M.TECH	Asstt. Prof.	VLSI

8. Percentage of classes taken by temporary faculty – programme-wise information:

(As Per no. of faculty)

Year	Name of Programme	% of classes taken by temporary faculty
2014-15	UG	3.44
	PG	Nil
2013-14	UG	3.44
	PG	Nil
2012-13	UG	3.57
	PG	Nil
2011-12	UG	3.44
	PG	Nil

9. Programme-wise Student Teacher Ratio:

Year	Shift	STR (UG)		STR (PG)	
		As per actual Strength	As per Intake	As per actual Strength	As per Intake
2014-15	I & II	585/29=20.17	480/29= 16.55	24/3=8	24/3=8
2013-14	I & II	528/29=18.20	420/29=14.82	24/3=8	24/3=8
2012-13	I	459/28=16.39	360/28=12.85	18/2=9	18/2=9
2011-12	I	443/29=15.27	360/29=12.41	18/2=9	18/2=9

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

	Sanctioned		Filled	
	1 st shift	2 nd shift	1 st shift	2 nd shift
academic support staff (technical)	08	03	08	03
administrative staff	02	----	02	----

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. :

In-House Proposal submitted by ET Faculty 2013-14

Sr. No.	Title	Area of Specialization	PI & Co-PI	Amount	Present Status
	FPGA Implementation Of Efficient Channel Estimation Method For Non Line Of Sight Wireless Communication	Wireless Communication	Prof. D. B. Bhoyar	1.36 Lacs	Sanctioned

Proposals Submitted to AICTE 2012-13

Sr. No	Title of the Proposal	Amount in Lacs	PI	Co-PI	Agency	Scheme	Present Status
1.	Design of Embedded System for Quantitative Analysis and Assessment of Brain Images	22.05	Prof. Yogita K. Dubey	Dr. Milind M. Mushrif Dr. Pankaj Banode (DMIMS, Wardha)	AICTE	RPS	Received 4.05 Lacs

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:

Total grant received under DST-FIST for the project on “Advance Communication” is Rs. 7.91 Lacs

13. Research facility / centre with

- state recognition
- national recognition
- international recognition

Department of Electronics and Telecommunication Engineering is approved research center of R.T.M. Nagpur University for pursuing Ph.D

14. Publications:

- number of papers published in peer reviewed journals (national / international)

Year	Journal Publications		Conference Publications		Total
	International	National	International	National	
2014-15	20	Nil	20	Nil	40
2013-14	33	Nil	28	03	64
2012-13	20	Nil	30	03	53
2011-12	19	Nil	35	11	65
Total	92	Nil	113	17	222

SN	Name of Author/s	Name of Chapter/s in Book	Details (Publisher, DOI, ISBN, Year, Page Nos.)
1	Dr. M. M. Mushrif	Rough Set Theoretic approach publish in rough set in image analysis	CRC press, May 2010, ISBN 9781439803295 , Chapter no. 10
2	Dr. M. D. Chawhan	Network Optimization In Wireless Network	ISSN 1876-1100 ISBN 978-81-322-1822-7 DOI 10.10007/978-81-322-1823-4 Chapter No. 21 Lecture Notes in Electrical Engg. Springer India, 2014

SN	Name of Author/s	Name of Book	Details (Publisher, DOI, ISBN, Year, Page Nos.)
1	Prof. Sachin S. Khade	Electronics Instrumentation and Measurements	DJ Publication, July-2014, ISBN:- 978-93-84150-06-8

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.):

SN	Name of Author/s	No. of Publications Listed in International Database
1	Dr. M. M. Mushrif	35 (Google Scholar)
2	Dr. P. L. Zade	17 (Google Scholar)
3	Dr. M. D. Chawhan	09 (Google Scholar)

- Monographs :Nil

- Chapter(s) in Books : **02**
- Editing Books : **02**
- Books with ISBN numbers with details of publishers : **01**
- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average : **10.33 (average)**
- SNIP (Source Normalized Impact per Paper) : **Nil**
- SJR (Scimago journal rank) : **Nil**
- Impact factor – range / average : **1.28**
- h-index : **1.03 (Average)**

15. Details of patents and income generated : Nil

16. Areas of consultancy and income generated : Nil

17. Faculty recharging strategies:

- **Permissions for pursuing higher studies**

As per the provisions of the policy to promote acquisition of higher qualification by the faculty, 15 days study leave in one semester can be availed for doctoral research related work. During the term of the report 02 faculty members have availed this facility. In addition, the academic assignments of such faculty members were rescheduled to suit the mandatory course work to be done at the place of research.

- **Attending faculty development & training programmes**

Permission and financial assistance given to faculty members attending faculty development programmes or training programmes as per the training needs identified by the department.

- **Permissions & Financial assistance for attending workshops & conferences etc.**

As per policy the financial assistance for paper presentation / attending workshops etc. is extended in the form of registration, travelling and incidental expenses.

- **Skill up gradation training for faculty**

Newly recruited faculty members are deputed for skill upgradation training to specialized organizations.

- **Promotions to higher posts as per availability.**

The faculty members are promoted to higher position after acquisition of higher qualification/ training/expertise under Career Advancement Scheme and Internal Promotion Scheme.

- **Faculty Mentor Scheme**

The junior faculty works in tandem with the senior faculty of the department for quality teaching of the courses.

18. Student projects

- Percentage of students who have done in-house projects including interdepartmental
- Percentage of students doing projects in collaboration with industries / institutes

Details of collaborative projects at UG/PG level

Year	UG Projects		PG Projects	
	In-House	Collaborative with Industry/ Institutes	In-House	Collaborative with Industry/Institutes
2014-15	48.57%	51.43%	100%	Nil
2013-14	43.24%	56.66%	88.88%	11.12%
2012-13	86.48%	13.52%	94.44%	5.56%
2011-12	90.47%	9.53%	Nil	Nil

19. Awards / recognitions received at the national and international level by

- **Faculty**

SN	Faculty Name	Award/Recognition	Awarding Organization
1	Dr. P. L. Zade	Best Paper at International Conference	International Conference on computer and computational Intelligence (ICCCI-2011) organized by IACSIT, Bangkok, Thailand.
2	Prof. M. S. Narlawar	Best Paper at International Conference	International Conference on Electronic Systems, Signal Processing and Computing Technologies [ICESC]-2014 at RCOEM, Nagpur
3	Prof. D. K. Thote	Best Paper at National Conference	National Conference on Advanced Communication & Matlab, SDMP , Nagpur

Sr. No.	Name of Faculty	Recognition	Date	Name of Event and Organization
	Ms. Y.K.Dubey	Technical committee member of Int. Conference	21-22 /4/2013	International Conference on System Engineering And Modeling (ICSEM-2013), Beijing ,China
	Asso.Prof.A.S. Khobragade	Subject Expert for interview	21/2/2013	Expert for the interview for the post of Professor/Assistant Professor /Associate Professor
	Dr. M.M.Mushrif	Committee member of International Conference	18-20 /2/2013	International Conference on Computer Science And Information Technology (CCSIT-13), Banglore
	Ms. Y.K.Dubey	Committee member of International Conference	18-20 /2/2013	International Conference on Computer Science And Information Technology, Banglore,
	Dr.P.L.Zade	Judge	29/1/2013	AAVISHKAR-2013, S.D.M.P.,Nagpur
	Dr.P.L.Zade	Judge	29/1/2013	AAVISHKAR-2013, S.D.M.P. ,Nagpur
	Dr. M.M.Mushrif	Session Chair	6/12/2012	National Conference on VLSI Designs & Embedded System NCVDES-12 GHRCE,Nagpur
	Ms. Y.K.Dubey	Reviewer of International Journal	ISSN 0976-710 X	Signal and Image Processing International Journal SIPIJ
	Mrs. A.D.Belsare	Reviewer of International Journal	ISSN 0976-710 X	Signal and Image Processing International Journal SIPIJ
	Ms. Y.K.Dubey	Selected as Bibliographical		Marquis Who's Who in the World, Pub. USA
	Ms. Y.K.Dubey	Reviewer of International Journal	ISSN 2319-1015	International Journal on Soft Computing ,Artificial Intelligence & Applications IJSCAI
	Mrs.S.S.Chiwande	Reviewer of International Journal		IET Computers and Digital Techniques

Interaction with outside world: Faculty Recognition Session (2013-14)

Sr. No.	Name of Faculty	Recognition	Date	Name of Event and Organization
	Dr.P.L.Zade	Session Chair	20/12/2013	International Conference on Advanced trends and Applications of Electronic Technology (ICATAET-13)
	Dr. M.M.Mushrif	Session Chair	20 /12 2013	International Conference on Recent trends in Electronics and Telecommunications (ICRTIET-13) at RGCOER
	Dr.P.L.Zade	Session Chair	17/12 /2013	Conference on Innovative trends for technology Development Technocon-13 DMIETER Wardha
	Dr.P.L.Zade	For Reviewing Project	28/9/2013	Electronics and Communication Engg. , SDMP,Nagpur
	Prof. D.B.Bhojar	Judge For Paper Presentation	26/2/ 2014	Tech Wave, Smt.Rajashree Mulak College of Engg. For Women
	Prof. Y.K.Dubey	Technical Committee Member	5-6 /4/2014	International Conference on Digital Image Processing, Athens Greece
	Prof. Y.K.Dubey	Technical Committee Member	7-8/3/ 2014	International Conference on Computer Science Engineering and Application. , Chennai

- **Doctoral / post doctoral fellows : Nil**
- **Students :**

Year	SN	Name of Student/s	Award/Recognition	Awarding Organization
2011-12	1	Ku.Radhika Pramod Lambe	Best Paper Award	Spandan – 2012 organized by YCCE
	2	Ku.Rupali Ramesh Pawar		
	3	Ashish Omprakash Bodhale		
	4	Mohammed Sadique Khajasheikh	Best Paper Award	BLITZKRIEG-12, DMIETR, Wardha
	5	Pankaj Chindhuji Bhope	Best Paper Award	Spandan – 2012 organized by YCCE
	6	Ku.Akanksha Ashok Parad		
	7	Ashitmuni Sukhdeo Wakade		
	8	Madhura Patil		

2012-13		Kalpita Anand Bhawalkar	Best Paper Award	Spandan – 2013 organized by YCCE
	1	Ku.Anuja Shyamsundar Paliwal		
	2	Ku.Ashwini Siddharth Dongre		
	3	Ku.Prajakta Krishnarao Kadu		
	4	Ku.Jaspreet Kukreja	Best Paper Award	Spandan – 2013 organized by YCCE
	5	Ku.Gulsaba Abdulsalam Khan		
	6	Ku.Neha Vijay Nirwan		
	7	Ku.Shruti Satish Paranjpe	Best Poster Award	Spandan – 2013 organized by YCCE
	8	Chetan Rambhau Tekade		
	9	Gaurav Jagdish Narnaware		
	10	Nitin Punjaji Kolte	Best Paper Award	SPARSH-2013 organized by DMIETR wardha
	11	Samee-R Raju Chakole		
	12	Harshal Liladhar Tayade		
	13	Jayendra Rajendra Kailaskar	Best Project Award	National Level Techfest Wheel Spin-13 Bapurao Deshmukh college of Engg, Wardha
	14	Parag Vijayrao Yelore		
	15	Parikshit Sunil Deshmukh		
	16	Ku.Nupur Chandrakant Tupkar	Best Project Award	National Level Tech fest XPLORE 4.0 organized by RGCER Nagpur
	17	Ku.Sakshi Yashwantrao Hiwanj		
	18	Nikhil Ravish Kadam		
	19	Siddhesh Vishvesh Gaiki	Best Project Award	PRATIKRUTI organized by YCCE, Nagpur
	20	Ku.Apeksha Kulkarni		
	21	Ku.Ashwini Prabhakar Yewale		
	22	Ku.Shruti Dasarath Jaiswal	Best Paper Award	Spandan – 2014 organized by YCCE
	23	Ku.Nupur Chandrakant Tupkar		
	24	Ku.Nupur Chandrakant Tupkar		
	25	Ku.Sakshi Yashwantrao Hiwanj	Best Paper Award	"TECHNICO ENTREVISTA-2K14" organized by St. Vincent Palotti College of Engg.
26	Nikhil Ravish Kadam			
1	Parate Anjali Pradip			
2013-14	2	Parad Apurva Ashok	Best Paper Award	Spandan – 2014 organized by YCCE
	3	Untawale Jasmin Sachin		
	4	Shinde Anurag Pradip		
	5	Parate Anjali Pradip		
	6	Parad Apurva Ashok	Best Paper Award	
	7	Untawale Jasmin Sachin		
	8	Shinde Anurag Pradip		

	9	Gunnale Rujuta Pramod	Best Paper Award	Spandan – 2014 YCCE	
	10	Meshram Samiksha Laxman			
	11	Waghmare Snehal Madhukar			
	12	Hinge Snehal Narendra			
		13	Chakate Anup Kuwarlal	Best Paper Award	Spandan – 2014 YCCE
		14	Khandare Darshan Mohanrao		
		15	Badole Sandesh Sevakram		
		16	Lutade Swapnil Vinod		
		17	Gunnale Rujuta Pramod	Best Project Award 2 nd prize	PRATIKRUTI YCCE, Nagpur
		18	Meshram Samiksha Laxman		
		19	Waghmare Snehal Madhukar		
		20	Hinge Snehal Narendra		
		21	Vaijayanti Sudhir Kunnawar	Best Project Award 3 rd prize	PRATIKRUTI organized by YCCE, Nagpur
		22	Gale Rajkiran Charandas		
23		Joshi Suraj Shyam			
24		Ambhorkar Utkarsha			
2014-15	1	Nandankar Pratik	Best Paper Award	SPANDAN 2015	
	2	Pawar Pratik			
	3	Dhule Sagar			
	4	Wath Sanket			
		5	Deshpande Aditya	Best Paper Award	SPANDAN 2015
		6	Bidkar Ketan		
		7	Deshpande Sameer		
		8	Mushrif Shreyas		
		9	Sable Swapnil		
		10	Manjeet Kaur	2 nd Best Project Award	PRATIKRUTI 2015 National Level project Competition
		11	Palakk Shrivastav		
		12	Akhare Pallavi		
		13	Bhaiswar Rishikesh		
		14	Shende Aboli		
		15	Pattewar Aniruddha	1 st Best Project Award	PRATIKRUTI 2015
		16	Lone Balaji		
		17	Jadhav Sudhit		
		18	Walke Anjali	Best Paper Award	IFERP, for Engg. Research & Publication, Nagpur
		19	Bhagwatkar Krutika		
		20	Kale Mayuri		

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Seminar Organized

Year	S N	Event Name	Resource Persons	Source of funding	Organized for	Outstanding Participants
2014-15	1	Seminar on “Basics of Robotics”	Er. Ms. Minakshi Chippa	YCCE, Nagpur	Students	Nil
	2	Seminar on “Career opportunities”	Mr.Avinash Naidu	YCCE, Nagpur	Students	Nil
	3	“Emerging Research and Research Opportunities in India and Abroad	Mr.Shashwat Rathkanthiwar	YCCE, Nagpur	Students	Nil
	4	Seminar on “Body Language, Etiquettes and Manners”	Mrs.Beena Mathew	YCCE, Nagpur	Students	Nil
	5	IT Fundamentals	Gauri Dhopawkar Rakhi Wajgi Roopa Fadnis, DR. M.M.Mushrif	YCCE, Nagpur	Students	Nil
2013-14	1	Seminar on” FinFET Process Modelling in VLSI Technology”	Er. Rishikesh Tambulkar, VIT, University	YCCE, Nagpur	Students	Nil
	2	Seminar on “Microcontroller & Embedded System”	Mr. Navlesh G. Dose	YCCE, Nagpur	Students	Nil
2012-13	1	Seminar on “Microwave Office”	Er. Tarun Kanade	YCCE, Nagpur	Students	Nil
2011-12	1	Key to success	Mr. Sharad Thombre Director, Sales & Marketing, AIE, Nagpur	YCCE, Nagpur	Students	Nil
	2	SONET Synchronous optical N/Ws	Mr. H.D.Kulkarni, Divisinal Engineerer, BSNL	YCCE, Nagpur	Students	Nil
	3	Malaria Diagnosis: Patteren Recognition Approach	Dr. Chandan Chakroborthy, IIT Kharakhpur	YCCE, Nagpur	Students	Nil
	4	Project Development in Embedded Systems	Mr.Karandikar, (M.D.- Embedded Creations)	YCCE, Nagpur	Students	Nil
	5	Insight on campus placement & carrier in IT	Mr. Shekhar Patankar & Mr. Shantanu Deo,	YCCE, Nagpur	Students	Nil

	6	Hands on the ADOBE Photoshop Software	Final year students (Karthik Chivkula & Shardul Dhanorkar)	YCCE, Nagpur	Students	Nil
	7	GD, Extempore & PI	Dr. M.M.Mushrif, Prof. S.D.Bhole	YCCE, Nagpur	Students	Nil
	8	Awareness about Recent Technology	IEEE Student group of YCCE	YCCE, Nagpur	Students	Nil

Workshop Organized

Year	SN	Event Name	Resource Persons	Source of funding	Organized for	Outstanding Participants
2014-15	1	Workshop on Demonstration of Vector Network Analyzer	Mr. Mahesh Kajawe, Rodhe & Schwarz Ltd.	YCCE, Nagpur	Students	Nil
	2	Workshop on Texas Instruments India Analog Maker Competition 2015	Prof. A.D. Belsare	YCCE, Nagpur	Students	Nil
2013-14	1	Two Days Workshop on Implementation of Wireless Networks on NS2	Dr. S.B. Pokle, RCOEM, Nagpur Prof. Mrs. M.S. Dorle, Prof. P.D. Dorge	YCCE, Nagpur	Students	Nil
	2	Workshop on RF Circuit Design and Simulation	Dr. A.S. Gandhi Mr. Dharmendra Nayak	YCCE, Nagpur	Students	Nil
	3	Workshop on Introduction to MATLAB	Y. K. Dubey/ A.D. Belsare	YCCE, Nagpur	Students	Nil
	4	Workshop on Fundamentals of Operating Systems and Device Drivers	Er. Bhushan Kalamkar	YCCE, Nagpur	PG Students	Nil
2012-13	1	Workshop on RF Circuits Design	Mr. Vinit Wasudewan	YCCE, Nagpur	Students	Nil
2011-12	1	Workshop on WiRo- A Wireless Robot	Mr. Abhijit Khandagale, Mr. Karan Kapur	YCCE, Nagpur	Students	Nil
	2	Workshop on Rise High	Karthik Chivkula Shardul Dhanorkar	YCCE, Nagpur	Students	Nil
	3	Workshop on Microwave Engineering and Measurements	Prof. D. Sengupta, Navneet Kumar Anritsu Instruments	YCCE, Nagpur	Faculty	Nil

STTP Organized

Year	SN	Event Name	Resource Persons	Source of funding	Organized for	Outstanding Participants
2014-15	1	One week ISTE approved STTP on Advances in Embedded System Design	Dr. S.S.Limaye, Principal, JIT, Dr. M.M.Mushrif, Prof., ET Dept., YCCE, Nagpur, Prof. S.Y.Ambatkar, Electronics Dept., YCCE, Nagpur Prof. A.P.Deshpande, RG CER, Nagpur,	YCCE, Nagpur	Faculty	Nil
2013-14	1	STTP ACROMAA-14	Dr.S.S.Pattnaik NITTTR,Chandigarh Dr.M.P.Abegaonkar IIT,New Delhi Dr.A.S.Gandhi,VNIT, Mr. Yash Panhekar,BSNL Dr.P.S.Ashtankar,KITS,Ramtek Dr.P.L.Zade,YCCE Dr.A.S.Khobragade, Mr.Anirudhha Kulkarni,FALCON,Pune Mr. M.S. Narlawar	YCCE, Nagpur	Faculty	Nil
2012-13	1	AICTE Sponsored two week , FDP on Soft Computing Techniques In Modeling and Simulation for research In Engineering and Technology	Prof. U. V. kulkarni , SGGS, Dr. S. V. Dudul, Amaravati University, Dr. M. M. Raghuwanshi RGCOER, Dr. N. G. Bawne, SB JIT, Preeti Paranjape MCA, RKNEC, Dr. A. G. Kothari , Umesh Deshpande, VNIT, A. S. Khobragade Prof. Bedekar, CoE Amaravati, Dr. K. M. Bhurchandi, VNIT,	AICTE	Faculty	11
2011-12	1	STTP on Image Processing with Practical Applications	Dr. K. M. Bhurchandi, VNIT Prof. M. A. Gaikwad, Wardha Prof. Abhay Giakwad, Pusad. Dr. K. K. Bhojar, YCCE Dr. M. M. Mushrif YCCE, Mrs A. V. Chaudhari, YCCE, A D Belsare, YCCE, Y. K. Dubey YCCE	YCCE, Nagpur	Faculty	Nil

21. Student profile course-wise

year	Name of the Course (refer question no. 2)	Selected/Enrolled		Pass percentage	
		Male	Female	Male	Female
2014-15	UG	79	71	80.89	100
	PG	10	14	90.00	100.00
2013-14	UG	65	87	81.01	93.93
	PG	11	13	100.00	100.00
2012-13	UG	86	67	83.87	82.75
	PG	09	09	90.00	100.00
2011-12	UG	89	62	92	83.25
	PG	09	09	66.66	100.00

22. Diversity of students

Year	Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
2014-15	UG (Shift –I)		96.77	3.33	NIL
	UG (Shift –II)		89.89	10.11	
	PG	4.166	100	Nil	
	PhD	100	100	Nil	
2013-14	UG (Shift –I)		94.40	5.60	NIL
	UG (Shift –II)		88.88	6.34	
	PG	4.166	100	Nil	
	PhD	100	100	Nil	
2012-13	UG (Shift –I)	Nil	95.23	4.76	NIL
	UG (Shift –II)	Nil	90.00	10.00	
	PG	16.66	100	Nil	
	PhD	Nil	100	Nil	
2011-12	UG	Nil	88.18	11.81	NIL
	PG	27.77	100	Nil	
	PhD	NA	NA	NA	

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Year	Number of students Cleared Examinations				
	GATE	GRE/TOFEL	CAT/CET/ GMAT	Defense Services	Civil Services
2014-15	12	06	01	---	---
2013-14	11	04	01	----	-----
2012-13	02	02	02	---	---
2011-12	02	04	03	---	---

24. Student progression (As per candidates enrolled)

Student Progression	Percentage against Enrolled			
	2011-12	2012-13	2013-14	2014-15
UG to PG	23	7.97	2.63	2.68
PG to Ph.D.	5.55	5.55	Nil	Nil
Ph.D. to Post-Doctoral	Nil	Nil	Nil	Nil
Employed	60.26	37.33	44.07	58.38
Campus selection				
Off Campus selection	Nil	2.00	0.65	5.36
Entrepreneurs/Self Employment	Nil	Nil	Nil	Nil

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	51.51 %
from other universities within the State	45.77%
from other universities from other States	2.70%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Sr. No.	Name of Faculty	Degree Awarded	Degree Awarding Year
1	Dr. P. L. Zade	Ph.D	2012
2	Dr. A. S. Khobragade	Ph.D	2014

27. Present details about infrastructural facilities

SN	Infrastructure facility	Details related to Department	Numbers Available
1	College Library	Book Titles	904
		Book Volumes	5722
		Journals (Print + Online)	15
		Magazines & Periodicals	Nil
		E-Recourses (CD/DVD)	135
2	Departmental Library	Book Titles	108
		Project Reports (UG/PG)	150 UG + 60 PG
		Any Other	ESE/ MSE questions papers, Conference & journals proceedings, Newsletter, Magazines; PQAI Videos CD's & DVD's

3	Internet facilities for staff and students in the department	No. of Computers (Staff + Lab)	170
		No. of Computers with Internet Facility	130
4	Class Rooms with ICT Facility	No. of Class Rooms with ICT Facility	06
5	Student Laboratories	No. of Student Labs.	11
6	Research Laboratories	No. of Research Labs.	01

28. Number of students of the department getting financial assistance from College.

Year	No. of students Getting Financial Assistance For				
	GATE Exam	Final Year Project	Publications	Fee Concession	Total
2014-15	49	39 Students (8-Project)	Nil	12	100
2013-14	119	Nil	Nil	16	135
2012-13	Nil	28 Students (7-Project)		12	40
2011-12	Nil	Nil	Nil	12	12

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

First shift Electronics and telecommunication was started in the year 2010-11. There was an increase in demand in telecommunication engineering and also with the scope in telecom industry we have started second shift with an intake of 60 students in the year 2013.

With experienced faculties having Ph.D in their specialized field we have increase the intake of communication engineering M.Tech program in 2013.

To increase the research activity in electronics and communication department we started with Ph.D programme/M.E. by research in electronics engineering in 2012.

30. Does the department obtain feedback from

The feedback is collected for all the courses: YES

1. Faculty on curriculum as well as teaching learning evaluation? If yes, how does the department utilize it?

Course completion report

Informal Feedback from faculty

Discussions in Board of Studies meetings.

HoDs monthly meeting.

2. Students on staff, curriculum as well as teaching learning evaluation and what is the response of the department to the same?

Feedback collection process: Feedback is collected by the office of Dean Academic Matters. Once each before MSEs and one before ESE for autonomy programs, once for University programs.

Percentage of students participating: Around 85 to 90 % percentage of students participated in the feedback process. The feedback is analyzed on computers to assess the teaching capabilities, teachers' habits, usage of technology in the classroom, subject contents and overall satisfaction level of students.

Corrections required in each teacher's delivery method, improvement in technical contents through usage of technology, effectiveness of the teacher and finally the grading of teachers on the basis of feedback collected is arrived at through the analysis

- The Feedback Report on teaching learning process are discussed with the teachers by Head of the Department in informal meeting. A special committee consists of the Principal, Dean (Academic Matters) and head of the department interacts with the teachers with score less than the benchmark score to understand the problems and to exhort the teacher to perform better.
- Basis of reward/corrective measures: Teachers with very good score are issued the appreciation letters while those with the low score are advised to introspect for the improvement. They are issued the letters to improve the performance. They are helped by the seniors in the department too. The special training sessions by the qualified third party agency is engaged to help the teacher whenever needed. In case the feedback is very poor and the teacher has shown no significant improvement, then he is asked to leave.
- The extraneous factors, like hard / soft attitude of the instructor are considered.
- The result of the subject taught by the teacher is also considered

3. Alumni and employers on the programmes and what is the response of the department to the same?

- The feedback from alumni is taken in the alumni meet.
- The feedback form is given to Industry when they come for campus and is normally received by mail.
- The feedback from parents is taken during parents meet.

- The feedback from alumni and industry is analyzed by Training and placement department and parent's feedback is analyzed by respective academic departments.

The major corrective actions based on feedback

- Infrastructure improvement by providing Auditorium of capacity more than 500.
- Training on communication skills, personality development programmes like MFS (Meghe Finishing School).
- The period for books borrowed increased from Two weeks to Three weeks.
- Improvement in sanitary and drinking water facility.
- Modification in the course content
- Introduction of new practical.
- Student development programmes like TiE (Talk in English), Motivation and confidence development workshop and CRT (Campus Recruitment Training).
- As per the parents suggestions we have started to send the marks and attendance of students via SMS.

31. List the distinguished alumni of the department

Sr.No.	Name of Alumini	Designation	Employer / Entrepreneur
1	Aditya Dhattrak	Software Engineer	Tata Consultancy Services
2	Ajinkya Joshi	Student (MS)	Long Beach California University
3	Kartik Chivakula	Research Scholar	VNIT, Nagpur
4	Vikas Gupta	Research Scholar	IIT Gandhinagar
5	Deepak Kumar Singh	Student (M.Tech)	IIT Kharagpur
6	Amogh Deshmukh	Engineer	Air Force
7	Aniket Mishra	Software Developer	Mu Sigma
8	Akhil borkar	Student (MS)	Clemsom university
9	Nitin Satpute	Student (M.Tech)	Bits Pilani
10	Swati Pendam	Student (MBA)	MBA, Pumba, Pune

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts. (2011-12 to 2014-15)

Special Lectures

SN	Event Topic	Expert Details	Date
1	Goal Setting	Mr. Ashish Sharma	13/03/15
2	Wireless Communication & Network	Dr. Manish Chawhan, Asst. Prof. Ramdeobaba college of Engg.	4/03/15
3	Career Opportunities	Mr. Avinash Naidu	12/02/15
4	Emerging Research and Research Opportunities in India and Abroad	Mr. Shashwat Rathkanthiwar	19/12/14
5	Basics of Robotics	Miss. Minakshi Chippa	16/10/14
6	Body Language, Etiquettes and Manners	Ms. Beena Mathew, Director Mathew's Academy, Nagpur	22/08/14
7	Pre placement Preparation on C/C++ for campus placement	Prof. Parag Dhawan , RG CER, Nagpur	28/08/15
8	Soft Skill Development	Ms. Beena Mathew, Director Mathew's Academy, Nagpur	06/10/15

33. List the teaching methods adopted by the faculty for different programmes.

- Lecture method and Interactive learning
- Project-based learning
- Computer-assisted learning
- Experimental learning
- Seminars
- Multimedia for various skills development
- Use of Power Point Presentation
- Brain storming session
- Group discussion
- Guidance to the students to access NPTEL for learning material
- Tutorials & Assignment

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- **The Examination results**
MSE-I, MSE-II, ESE attainment of program outcomes mapped with the programme objectives.

- **Students going for higher studies**

As per the intake of students every year we monitored the percentage of student going for higher studies such as MS, M.Tech, MBA etc.

- **Student placed through campus interviews**

Efforts are taken for maximum students to be placed in core as well as other renowned companies.

We calculate the percentage of students placed through on campus and off campus interviews.

- **Feedback from the Employer**

The feedback from the employer of the students, of electronics and telecommunication department who are placed in various companies are taken.

35. Highlight the participation of students and faculty in extension activities.

The department participates in many social activities like blood donation camps, antismoking campaigns, I vote for better India campaign, Swachchata-Abhiyan on campus, Nirmalya (Flower and other Waste from Worship of God) Sankalan on the occasion of Ganapati Visarjan at prominent places in the city, traffic rules awareness programmes for the students in collaboration with RTO, Nagpur and Jan Aakrosh - an NGO and many more. WINGS - a society of students of the institution is formed in 2013 which has given recognition to the initiatives and involvement of students and faculty members in all the above activities organized at college level on social responsibilities. SWAS – a society of students formed in 2014 to help needy farmers in drought hit Marathwada region and promotion of reading habits amongst young students.

The students of electronics and telecommunication department participate in go green project by organizing the programmes like tree plantation. The faculties and students donate some amount and offer help to Nehru Bal sadan (Aashram), Old age homes and child adopt centers.

In addition to this, the students have collected over 3000 pairs of used cloths for victims of calamities faced by India during last couple of years.

36. Give details of “beyond syllabus scholarly activities” of the department:

- **Visiting Professor Scheme**

Professors from eminent engineering institutes like IIT are invited as visiting professors to teach the latest developments in the field of electronics and telecommunication engineering.

- **Workshop organized for students**
 - Student development programs are conducted to improve technical and communication skills.
 - In-house workshops are conducted to get hands-on practice on EDA tools like MATLAB, CAD FEKO, ORCAD, Microwave Office, Photoshop, Robotics etc.
- **Industry Institute Interaction**
 - Industry visit: To give industrial exposure to students in the current trends of technology & innovation ET dept. organizes industrial visit every year to industries like Infosys, Corel Telecom Ltd, Markson SNR Industry etc.
 - Co-guide from industry: For better quality of project and to meet the requirement of industries, projects are selected and guided by the industrial expert as a co-guide in final year.
 - Visit to research centers: Every year selected no. of students are taken for visit to research centers such as BARC, IIRSC etc.
- **Alumni Meet**
Dept. organize alumni meet for interaction of alumni with students. They share their experience and guide the students.
- **Accessibility of E-Sources**
NPTEL Video and E-Lectures of related courses in Electronics and Telecomm. Engineering are available on departmental web portal.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

Accredited by NBA for 2 Years, File No. 28-194/2010-NBA

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths:

- Young and motivated faculties
- Experienced faculties with expertise in various core areas
- Highly preferred branch by students and hence excellent students with good score are admitted in ET department
- No. of faculties are pursuing their research work in different areas
- Students involvement in cocurricular/extracurricular activities

Weaknesses:

- Limited entrepreneurship.
- Yet, no research work is patented.
- Insufficient interaction with scientist from research institutions
- Placements in the core companies are limited.
- Limited consultancy

Opportunities:

- There is scope for patenting and consultancy.
- Faculties can be involved in publication of books in future.
- Possibility of developing the students in different core areas so that core companies can be invited for campus placement.
- More number of students can be motivated to appear and excel in GATE.
- Entrepreneurship development initiatives can be strengthened.
- Students can be trained as per the requirements of industry by means of industrial training and industry based projects.

Challenges:

- Recruitments of students in core industries.
- Patents and monograph to be filled.
- Book publication, publication of papers in good quality journals.
- To make our department a centre of excellence in thrust areas.
- To motivate students for entrepreneurship.

39. Future plans of the department. –

- All the faculty members should be motivated for undertaking research work.
- Entrepreneurship development program should be arranged for motivating student for self employment.
- At least one thrust area of the department should be developed as centre of excellence.
- Strengthen Collaborative Activities with Premier Institutions

Computer Technology Department

1. Name of the Department & its year of establishment

- Department of Computer Technology
- Established in the year 1985-86

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Level	Programme of Study	Started in Year	Current Intake
UG	B. E. in Computer Technology	1985-86	120
PG	M. Tech in Computer Science & Engineering Shift - I	2010-11	24
	M. Tech in Computer Science & Engineering Shift - II	2013-14	24
PhD	Computer Science & Engineering	2011-12	10

3. Interdisciplinary courses and departments involved:

The interdisciplinary courses and departments involved is as given below:-

S.N.	Subject	Departments Involved
1	Maths III	Applied Mathematics & Humanities
2	DMGT	Applied Mathematics & Humanities
3	Microprocessor and Logic Design	Electronics & Tele
4	EVS	Applied Mathematics & Humanities
5	MEHRM	Applied Mathematics & Humanities
6	SQL/PLSQL, Linux OS, Current Trends & Technology, Multimedia & Animation	Civil Engineering, Mechanical Engineering, Electronics Engineering, Electronics & Telecommunication, Electrical Engineering,

4. Annual/ semester/choice based credit system:

S. N.	Course	Name of Programme	Credit System
1	UG	B. E. in Computer Technology	Semester Based Credit System
2	PG	M. Tech in Computer Science & Engineering Shift - I	
		M. Tech in Computer Science & Engineering Shift - II	
3	Ph.D	Computer Science & Engineering	--

5. Participation of the department in the courses offered by other departments

Nil

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professor	2	0	2	1
Associate Professors	4	2	0	1
Asst. Professors	19	19	6	6
Lecturer	0	1	0	0
Total	25	22	8	8

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Name	Qualification	Designation	Specialization
Kavita. R. Singh	PhD	Associate Prof. and HoD	Computer Vision, Soft Computing, DIP
M. M. Raghuwanshi	PhD	Prof.	Genetic Algorithm, Soft Computing
T.R Ravi	M.Tech	Associate Prof.	Compilers, Programming Language
A. R. Bhagat Patil	M. Tech, PhD Pursuing	Associate Prof.	Computer Networks & Security
S. D. Kamble	M.E., PhD Pursuing	Asst. Prof.	Image Processing, language Processing
S .J. Karale	M.E.,	Asst. Prof.	Algorithms, Compilers
G. M. Dhopavkar	M.Tech, PhD Pursuing	Asst. Prof.	Natural language Processing, Software Engineering
Smita Kapse	M.Tech	Asst. Prof.	Network Security, Computer network
Neelima Jichkar	M.E.	Asst. Prof.	Distributed System, Operating System
R.D.Wajgi	M. Tech PhD Pursuing	Asst. Prof.	Bioinformatics, Optimization Algorithm
Gauri Chaudhary	M.Tech	Asst. Prof.	Data Mining, Software Engineering
N.U.Sambhe	M.Tech	Asst. Prof.	Computer Network, MWD, Artificial Intelligence

R.S.Khedgaonkar	M.Tech PhD Pursuing	Asst. Prof.	Digital Image Processing
L. B. Damahe	M. Tech PhD Pursuing	Asst. Prof.	Image Processing, Multimedia
P. Barekar	M. Tech	Asst. Prof.	Networks, Image Processing
P.A.Deshkar	M.Tech PhD Pursuing	Asst Prof.	Data Mining, Data Warehousing, BI
Supriya Thombre	M.Tech	Asst Prof.	Operating System, System Programming
S. S. Badhiye	M.Tech PhD Pursuing	Asst Prof.	TOC, Compiler, OR, Data Mining
N. S. Mangrulkar	M.Tech	Asst Prof.	Language Processor, ES, Computer Networks
S. B. Ardhapurkar	M.S.	Asst Prof.	Information Security, Cyber Laws
S. S. Lachure	M.Tech	Asst Prof.	Digital Image Processing
S. A.Gode	M.Tech	Asst Prof.	Data Mining
R. K. Gadge	M.Tech	Asst Prof.	Networking
Bhavana Pise	M.E	Asst Prof.	Wireless Communication
P. G. Dhule	M.E	Asst Prof.	Computer Networks
C. D. Pise	M.Tech	Asst Prof.	HPCA, Data Mining
C. K. Selukar	M.Tech	Asst Prof.	Software Engineering, Embedded Systems
M. V. Kotpalliwar	M.Tech	Asst Prof.	Data Mining, Digital Image Processing
M. K. Bhandari	M. E.	Lecturer	Wireless Sensor Network Network Security
P. K. Ambatkar	M.Tech	Asst Prof.	Computer Networks

8. Percentage of classes taken by temporary faculty – programme-wise information: Nil

9. Programme-wise Student Teacher Ratio:

Year	STR (UG)		STR (PG) Shift 1	
	As per actual Strength	As per Intake	As per actual Strength	As per Intake
2014-15	19.47	18.78	11.62	12
2013-14	17.21	15.42	11.00	11
2012-13	17.81	16	12.00	12
2011-12	17.53	16.62	12.00	12

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

	Sanctioned	Filled
Administrative Staff	2	2
Academic Support Staff (Technical)	10	10

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.: Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:

Title of Research Project	Funding Agency	Status	Name/s of Faculty Involved	Grant Received
Seminar / Symposium/Workshop	AICTE IPS	Completed	Dr. Manali. M. Kshirsagar	1.50 Lakhs
A Robust Face Recognition System Under Illumination And Pose Variations	AICTE RPS-A	Completed	Dr. K. R. Singh	7 Lakhs

13. Research facility / centre with

- State recognition
- National recognition
- International recognition

Department of Computer Technology is approved research center of R.T.M. Nagpur University for pursuing Ph.D and M.E. (by research)

14. Publications:

- Number of papers published in peer reviewed journals (national / international)

Year	Journal Publications		Conference Publications		Total
	International	National	International	National	
2014-15	45	0	56	0	101
2013-14	47	0	24	6	77
2012-13	23	0	25	0	48
2011-12	29	0	24	6	59
Total	144	0	129	12	285

- Monographs: **Nil**
- Chapter(s) in Books: **01**

SN	Name of Author/s	Name of Chapter/s in Book	Details (Publisher, DOI, ISBN, Year, Page Nos.
1	K. R. Singh, Mukesh Zaveri, Mukesh Raghuwanshi	A Rough Neurocomputing Approach for Illumination Invariant Face Recognition System	Springer, DOI: 10.1007/978-3-662-44680-5 ISBN: 978-3-662-44679-9, Year 2014, Page No: 34-51

- Editing Books: **Nil**
- Books with ISBN numbers with details of publishers: **01**
Title: Temperature & Humidity Prediction Using Data Mining
Authors: Sagarkumar Badhiye, et al
Publisher: LAP LAMBERT Academic Publishing
Publishing Date: 10 October 2013
ISBN-13: 978-3659201103
- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.): **24**

SN	Name of Author/s	Publications listed in Int. Database
1	Dr. Mukesh M Raghuwanshi	17
2	Dr. K. R. Singh	5
3	Prof. Arvind Bhagat Patil	1
4	Dr. Manali Kshirsagar	1

- **Citation Index – range / average:**

SN	Name of Author/s	Citation Index
1	Dr. M.M. Raghuwanshi	243
2	Dr. K.R.Singh	54
3	Mr. S.D.Kamble	5
4	Mrs.R.D.Wajgi	5
5	Mrs.G.M.Dhopavkar	2
6	Mrs. S.R. Kapse	2
7	Ms. R.S.Khedgaonkar	14
8	Mr. S.B.Ardhapurkar	1
9	Mr. S.S. Badhiye	15
10	Mr. L. B. Damahe	7
11	MR. C. D Pise	2

Range of Citation Index: 2 to 243

Average Citation Index: 31.82

- SNIP
- SJR
- Impact factor – range / average:

Impact Factor Range: Min.: 0.2 Max.: 5.098 Average: 2.469

- *h*-index

S.N.	Name	<i>h</i> -Index
1	Dr. M.M.Raghuwanshi	8
2	Dr. K.R.Singh	5
3	Mr. S.S. Badhiye	2
4	Mrs. G.M.Dhopavkar	1
5	Ms. R.S. Khedgaonkar	1

15. Details of patents and income generated: Nil

16. Areas of consultancy and income generated

Area/ Title of Project	Organization / Industry	Name of Faculty involved	Duration of Project	Amount
Development & Implementation of e-learning Portal	ADCC Infocad Pvt. Ltd	P.Deshkar, N.Mangrulkar, K.R.Singh, R.S.Khedgaonkar, S.R.Kapse, S.S.Badhiye, R.Ingle, A.K.Khan, T.Mendhe	1 Year	1,10,000/-

17. Faculty recharging strategies:

- **Permissions for pursuing higher studies:**

As per the provisions of the policy to promote acquisition of higher qualification by the faculty, 15 days study leave in one semester can be availed for doctoral research related work. During the term of the report 04 faculty members have availed this facility. In addition, the academic assignments of such faculty members were rescheduled to suit the mandatory course work to be done at the place of research.

- **Attending faculty development & training programmes:**

Permission and financial assistance is given to faculty members attending faculty development programmes or training programmes as per the training needs identified by the department.

- **Permissions & Financial assistance for attending workshops& conferences etc.:**

As per policy the financial assistance for paper presentation / attending workshops etc. is extended in the form of registration, travelling and incidental expenses.

- **Skill up-gradation training for faculty:**

Newly recruited faculty members are deputed for skill up-gradation training to specialized organizations.

- **Promotions to higher posts as per availability:**

The faculty members are promoted to higher position after acquisition of higher qualification/ training/expertise under Career Advancement Scheme and Internal Promotion Scheme.

- **Faculty Mentor Scheme:**

The junior faculty works in tandem with the senior faculty of the department for quality teaching of the courses.

18. Student projects

- Percentage of students who have done in-house projects including inter-departmental
- Percentage of students doing projects in collaboration with industries / institutes

Year	UG Projects		PG Projects	
	In-House	Collaborative with Industry/Institutes	In-House	Collaborative with Industry/Institutes
2014-15	100%	Nil	100%	Nil
2013-14	92.67 %	7.31%	100%	Nil
2012-13	91.90 %	8.10%	100%	Nil
2011-12	91.90 %	8.10%	100%	Nil

19. Awards / recognitions received at the national and international level by

• **Faculty:**

SN	Name of Faculty	Award/Recognition Details	Awarding Organization
1	Dr Kavita R Singh	IBM TGMC Mentor Award	IBM Academic Initiative

• **Doctoral / post doctoral fellows :**

SN	Name of Faculty	Doctoral/Post-Doctoral Fellow	Year of Awarding
1	Dr. Kavita R Singh	Doctoral	2013-14
2	Dr. Ujwalla Gawande	Doctoral	2013-14

• **Students**

Year	SN	Name of Student/s	Award/Recognition Details	Awarding Organization
2014-15	1	Neha Deshpande	Pratikruti (National Level Proj Competition)	YCCE
	2	Pooja Malviya		
	3	Rashmi Fusate		
	4	Shweta Dyavartiwar		
	1	Ragini Fulzele	Pratikruti-14	YCCE
2013-14	1	Mohit Tare	Project Competition	TCS
	2	Jayant Sable		
	3	Devendra Paratwar		
	4	Indrajit Gohokar		
	1	Ashwini Bhake	Pratikruti -14 National level Project Competition	YCCE
	2	Mayuri Joshi		
	3	Revati Deshmukh		
	4	Kalashree Hemke		
2012-13	1	Pranjal S. Dani	Inovaco-13.0	YCCE
	2	Ku.Mansi S. Dipani		
	3	Ku.MandeepK.Singh		
	4	Ku.RachanaDeollikar		
	5	Prathamesh		
	1	Chetan R. Chopade	International Conference ICCSIT – 2012	
	2	Ritesh J. Chetwani		
	3	Gaurav G. Timkhede		
	4	Dhananjay S Sathe		

	1	Rohit Shambhuwani	SPANDAN-13 Paper Presentation	Y.C.C.E., Nagpur
	2	Abhisehk Gaurav		
	3	Sayan Bhattacharyya		
	4	Rahul Trivedy		
	1	Ketaki Hardas	The longest Heena Marathon	Guinness World Record
	1	Kriti Bansod	Projectivity, Project Competition	YCCE,Nagpur
	2	Harshil Bhatnagar		
	3	Ku.Yashi P. Verma		
4	Divya R. Naidu			
2011-12	1	Piyushkumar Hire	TECHNOWAVE 2012	GHRCE, Nagpur
	2	Aditya Gajbhiye		
	1	Kaushik Talukdar	SPANDAN-12	YCCE, Nagpur
	2	Digbijoy Choudhury		
	3	Abhinav Borgohain		
	4	Raktim J. Rajkhowa		
	1	Akshay A. Gore	COMPUFEST 2012 SOFEE 2012	YCCE, Nagpur
	2	Nikhil Barote		
	3	Deepak D. Jadhav		
	4	Aditya S. Nahata		
	5	Ankit S. Purohit		
	1	Prateeksingh Bais	COMPUFEST 2012 SPANDAN	YCCE, Nagpur
	2	Tanikanti Aditya		
	3	Pankaj Meshram		
	4	Kamaldwip Choudhury		

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Year	S N	Event Name	Resource Persons	Source of funding	Organized for	Outstanding Participants
2014- 15	1	ISTE Workshop on Cyber Security	Prof. Bernad, IITB, Prof.Shivakumar, IIT Bombay	MHRD - National Mission on Education	Teaching Staff	0
	2	Hands on Upgradation of Technical Skills in MS-Office	Prof. V. Masne, Prof. S. Badhiye, Prof. Mangrulkar	YCCE, Nagpur	Non- Teaching Staff	0

	3	One week ISTE approved FDP on Application of GPU Programming in Engineering Fields-15	Gaurav Trivedi, IIT Guwahati, Amit Doshi, Mathworks Pune, Mandar Gurav, IIT Bombay, Dr. S. R. Sathe VNIT Nagpur	YCCE, Nagpur	Teaching Staffs & Students	05
	4	Role of Security in Big Data Analysis and how secure are you from Insider Threats	Mr. Arvind Benegal, VP Persistent System Ltd.	ACM	Teaching Staff	0
2013-14	1	Seminar on Utility of Project Magt.	Mr. Makrand Hardas	YCCE, Nagpur	Teaching Staff & Students	0
	2	Workshop on Latex	Dr. K. R Singh	YCCE, Nagpur	Students	0
	3	Workshop on Matlab	Vinod Thomas (Matlab)	YCCE, Nagpur	Teaching Staff	0
	4	Workshop on NS2	Prof. R. S. Mangulkar	YCCE, Nagpur	PG Students	0
	5	Workshop on Bigdata		YCCE, Nagpur	Teaching Staff	0
	6	Nat. Conference "Spandan-14"	Er. Sashi Choudhary	YCCE, Nagpur	Students	10
	7	FDP on Computer Progg.	Prof. Bernad, IIT Bombay	MHRD	Teaching Staff	0
2012-13	1	Workshop on Tivoli	RitViz	IBM	Staff & Students	0
	2	Seminar on TGMC Projects	Sami A Shiekh	IBM	Faculty & Students	0
	3	Workshop on RAD	Dr. K. R Singh	IBM	Staff & Students	0
	4	Workshop on Akash		MHRD	Teaching Staff	0
2011-12	1	Workshop on IBM-RFT for faculty and students	IBM faculty Mr. Amit Dharwal	IBM, CT Dept, YCCE	Teaching Staff Students	0
	2	National level workshop on "Cyber Security Awareness"	Mr. N. Vijay Shankar, Mr. Rakshit Tondon, Mr. Sagar Rahurkar	YCCE, Nagpur	Students	0

21. Student profile course-wise:

Year	Name of the Course (refer question no. 2)	Selected/Enrolled		Pass Percentage	
		Male	Female	Male	Female
2014-15	UG	87	72	73.56%	97.66%
	PG	26	22	80.77%	90.91%
	PhD	0	0	-	-
2013-14	UG	89	56	83.09%	79.03%
	PG	6	12	100%	66.66%
	PhD	0	0	-	-
2012-13	UG	97	70	62.88%	70%
	PG	5	13	80%	84.61%
	PhD	2	4	-	-
2011-12	UG	104	40	71.71%	75.55%
	PG	9	9	44.44%	100%
	PhD	2	1	-	-

22. Diversity of students:

Year	Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
2014-15	UG	NA	96.82%	3.17%	Nil
	PG	6.25%	100%	Nil	Nil
	PhD	Nil	Nil	Nil	Nil
2013-14	UG	NA	85.24%	14.75%	Nil
	PG	Nil	100%	Nil	Nil
	PhD	Nil	Nil	Nil	Nil
2012-13	UG	NA	85.83%	14.17%	Nil
	PG	5.56%	100%	Nil	Nil
	PhD	Nil	66.67 %	33.33%	Nil
2011-12	UG	NA	74.04 %	31.25%	Nil
	PG	11.11%	100%	Nil	Nil
	PhD	Nil	100%	Nil	Nil

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Year	Number of students Cleared Examinations					
	GATE	GRE/GMAT	CAT	Defense Services	Civil Services	Any Other
2014-15	13	-	-	-	-	-
2013-14	3	4	-	-	-	-
2012-13	4	-	-	1	-	-
2011-12	4	-	-	-	-	-

24. Student progression

Student Progression	Percentage against Enrolled			
	2011-12	2012-13	2013-14	2014-15
UG to PG	2.58%	3.33%	2.07%	4.17%
PG to Ph.D.	11.11%	Nil	Nil	Nil
Ph.D. to Post-Doctoral	Nil	Nil	Nil	Nil
Employed Campus Selection	76%	36%	55%	69%
Off Campus Selection	-	-	-	4.17%
Entrepreneurs/Self Employment	0.65%	0.66%	1.38%	0.69%

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	60.00%
from other universities within the State	23.33%
from other universities from other States	16.67%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Sr. No.	Name of Faculty	Degree Awarded	Degree Awarding Year
1	Kavita R. Singh	Ph.D.	2013-14
2	Ujwalla H. Gawande	Ph.D.	2013-14

27. Present details about infrastructural facilities

SN	Infrastructure facility	Details Related to C.T. Dept.	Numbers Available		
			Title	Volume	
1	College Library	Book Titles UG	4587	14164	
		Book Titles PG	189	948	
		IEL online journals (e-Journal package)	-	2833	
		Journals (Print + Online) UG		12	
		Journals (Print + Online) PG		10	
		E-Recourses (CD/DVD etc)	CD: 60 Titles, 60 Vol.		
			DVD: 2 Titles 65 Vol.		
			VCD:1 Title 33 Volume		
VOD: 6 Title 6 Volume					
NPTEL: 11					
	e-Books: 9703 (Springer Package) Wiley-Blackwell- 13				
2	Departmental Library	Book Titles (UG/PG)	4687 / 146		
		Project Reports (UG/PG)	194 / 106		
		Magazines & Periodicals	2 Titles, 30 Volume		
3	Internet facilities for staff and students in the department	No. of Computers(Staff + Lab)	394		
		No. of Computers with Internet Facility	80		
4	Class Rooms with ICT Facility	No. of Class Rooms with ICT Facility	01		
5	Student Labs.	No. of Student Laboratories	10		
6	Research Labs.	No. of Research Laboratories	01		

28. Number of students of the department getting financial assistance from College.

UG

Year	No. of students Getting Financial Assistance For			
	GATE Exam	Final Year Project	Paper Publications	Fee Concession
2014-15	105	03	00	09
2013-14	20	00	00	10
2012-13	39	04	00	10
2011-12	00	02	00	08

PG- NIL

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

YES.

- In 2008 many new engineering colleges have been opened in Vidarbha region and in Maharashtra state. Because of this new development, large number of applications was received against the available 18 seats for PG program in CSE.
- Hence decided to start new shift for PG CSE program from session 2013-14.

30. Does the department obtain feedback from

1. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

YES.

- During Curriculum development workshops and subsequent BoS Meetings all faculty members provide their feedback. (All CT Faculty members are by default members of CT BoS.
- Also Employee feedback is taken in every session.
- The feedback is analyzed and it is used to decide the Roadmap of the dept.
- SWOC analysis is performed.
- Corrective actions are taken in the form of
 1. Change in the Curriculum
 2. New innovative teaching –learning methods
 3. New evaluation methods

2. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

YES.

- Student feedback is taken twice in every semester.
- Analysis is carried out on the feedback obtained from students on staff, curriculum as well as teaching-learning evaluation.
- Corrective actions are taken as and when required.
- Planning is done for arrangement of workshops /seminars/online tests etc.

3. Alumni and employers on the programmes and what is the response of the department to the same?

YES

- Alumni meets are arranged by dept. as well as T&P.
- The alumni and employer feedbacks are obtained and analyzed.
- Suitable actions are taken.

31. List the distinguished alumni of the department

S.N.	Name of Alumini	Designation	Employer / Entrepreneur
1	Mrs. Y. SudhaRao	GM	IBM ,Banglore
2	Mr. SaurabhRungta	Owner	Rungta Group of Institutions, MP
3	Mr. Shahir Ahmed	CEO	Location Guru, India
4	Mr. Sammer Karwade	Supply Chain Manager	Raymond INC, Grenoble, France
5	Mr. Amar Amte	Engineering Project Manager	Yahoo
6	Mr. Vikram Agrawal	Sr. Engineer	Google
7	Mr. Sumit Goswami	Business Advisor	Wipro, Bangalore
8	Mr. Nitin Pande	Project Lead	PSL, Nagpur
9	Mr. Sumit Basak	Senior Developer	CISCO Systems,
10	Mr. Ajay Nayak	Real Page, Hyderabad	Senior Developer

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

Session 2014-15

SN	Event Topic	Expert Details	Date
1	Guest Lecture on OOM	Mr. Anuj Jajoo, Infosys, Pune	27/07/2014
3	Seminar on Benifit of ACM India student chapter.	Mr. Shekhar Sahastrabuddhe, Regional Vice President, Maharashtra and Goa and Treasurer, ACM India	7/08/2014
4	Event, Mock Aptitude Test	In association with GATEWAY Institute, Nagpur	13/08/2014 and 14/08/ 2014

5	Event Inauguration of Compufest-14	Mr. Parishkit Umare, Client Partner Strategic Accounts, Persistent System, Nagpur	16-17/08/2014
6	Seminar on Start Early and Crack GATE	Mr. Mukesh Jangid, ICE GATE Academy , Nagpur	21/08/2014
7	Seminar on Career Guidance : GRE Preparation Plan	Mr. Rahul Urganlawar, Director ICAD GRE, Nagpur	26/08/2014
11	Workshop on Strength your Career with 4 pillar of OOPS	Mr. Amogh Chitnis, Center Head,NIIT	11/09/2014
12	Workshop on Cloud Computing	Mr. Sachin Kumar, IBM	12/09/2014
13	Guest Lecture on Application Layer Protocol	Prof. Sulbha Patil, Head Mohan Gaikwad Invention & Research Center, Tulsiram Gaikwad Patil College of Engg. , Nagpur	27/09/2014
14	ACM India-Eminent Speaker Program	Mr. Arvind Benegal, VP, Persistent System Ltd, Pune, Distinguished Speaker ACM (India)	20/03/2015
15	One day Workshop on iOS and MAC OS Software Development Challenges and Opportunities	Mr. Vaibhao Mahore, Mac Os/I OS Developer in Avaya India Pvt. Ltd, Nagpur	16/03/2015
16	Industry Alligned Guest lecture by CT Alumni	Mr. Tejas Bhagwat, Project Manager, Tech Mahindra, Pune	19/12/2014
17	Guest Lecture on CDMA Mobile communication	Prof. Vishal Satpute, VNIT, Nagpur	23/02/2015
18	Seminar on Aptitude Development for Campus Preparation	Mr. Rishi Chourasia, Vikalp Education , Nagpur	20/12/2014
19	Two day Workshop on Forest Networking	Mr. Deepak Dhote, IT Networks	9/01/2015 and 10/01/2015
20	Nagpur Cyber Security Summit 2014 in association with Cyber Awareness Organization	Adv. Mahendra Limaye Founder Cyber Awareness Organization Nagpur Mr. Kishor Jaiswal Senior Civil Judge and Secretary DLSA (District legal Service Authority Govt. Of Maharashtra) on	20/12/2014

		Social Media and Judiciary MR. Manish Shukla Additional GM & Principal, RTTC , Nagpur Regional Telecom Training center BSNL Nagpur on Cyber Law and Indian Telecom Sector Mr. Sachin Sathe	
21	One Week Workshop on Python Training Programming	Mr. Prabodh Vekhande, Softbit Solutions, Ex HoD of CSE & IT Dept. SB JITMR, Nagpur	16/02/2015 to 21/02/2015
23	Two Week Workshop Learning Emerging Technique (Latex, Android, R Business)	Mr. Manish Sengar, Mr. Pratyush Kumar, Infocept Pvt. Ltd	29/12/2014 to 10/01/2015

Session 2013-14

SN	Event Topic	Expert Details	Date
1	How to Prepare for Campus & Personal Interviews	Mr. V Murli, Ex. HR, Infosys	4/09/2013
2	Ruby on Rails	Mr. Richpa Gulati, Kunal Infotech Pvt, Ltd.	6/09/2013
3	Utility of Project Management	Mr. Makrand Hardas, PMI Organization Center Pvt. Ltd , Mumbai	07/09/2013
4	Embedded System (ARM Architecture and Instruction Set)	Prof. A. P. Deshpande, PIET, Nagpur	22/10/2013
5	Workshop on Ethical Hacking	Ankit Fadia	22/10/2013
6	9 Beliefs of Success	Mr. Ashish Sharma, Managing Director, Platinum Education, Soft Skills and Voice Accent Trainer	23/10/2013
7	Trees- Data Structure	Mrs. A Thomas, Head MCA	24/10/2013
8	Computer Networks	Mr. Monal Torney Govt. Polytechnic, Brahmapuri	26/10/2013
9	File Systems and Disk Scheduling-OS	Mrs. Rashmi Welekar	26/10/2013

10	Learning – Artificial Intelligence	Ms. Rupa Patel, RCOEM, Nagpur	29/10/2013
11	Matlab for Engineering Education	ADCC, Nagpur	13/12/2013 to 15/12/2013 and 22/12/2013 to 24/12/2013
12	Network Simulator NS2	Prof. R. S. Mangrulkar, BDCOE, Wardha	13/12/1013
13	All about GATE	Mr. Padhey, Trainer GATE Forum	27/12/1013
14	Cryptography and Network Security	Prof. D. P. Bawane	28/12/2014
15	GRE,CAT,GMAT Preparation	ICAD,Nagpur	2/01/2014
16	Sixth Sense Robotics	AKK Solutions	4/01/2014 to 5/01/2014
17	Tips and Tricks for GATE	Gateway	6/01/2014
18	What will you actually work on, when step into Corporate world	Mr. Samir Karwade Alumni	6/01/2014
19	Recent Tools and Technologies	Concourse,Nagpur	6/02/2014
20	Core HTML5 and CSS3 Web Development Workshop	Kartik Ragubathy, Learnflow Solutions	17/02/2014 to 18/02/2014
21	IPC and Cyber Law	Adv. Mahendra Limaye, Adocate Nagpur	17/02/2014
22	Operating System	Prof. P U Tembhare, PCE,	10/02/2014
23	Computer Network	Prof. P U Tembhare, PCE, Nagpur	17/02/2014
24	Theory of Computation	Dr. Rahul Mohare, DMIMS, Nagpur	28/02/2014
25	Cyber Law and Forgery	Adv. Chetan Dhore	4/03/2014
26	Android and PHP	Miss. Amruta, Tops Technologies	7-8/03/2014 14-15/03/2014
27	UTMS (3G) and 4G	Miss. Vaishali Katkar , Womens Raisonni, Nagpur	18/03/2014
28	Introduction to Unified Modeling Language (UML)	Prof. Mansi Radke	29/03/2014
29	On NP Hard and NP Complete Problems	Dr. D. R. Sathe, VNIT, Nagpur	2/04/2014
30	Open Research issues for WSN	Dr. U. A. Deshpande, VNIT, Nagpur	2/04/2014

Session 2012-13

SN	Event Topic	Expert Details	Date
1	Workshop On IBM Tivoli	Mr. Ritviz , WebTech Lab	8-11/08/2012
2	Guest Lecture on Cyber Security	Mr. Rakshit Tandon	10/09/2012
3	Seminar on IBM TGMC Briefing	Mr. Sami A Shekh, IBM	17/09/2012
4	Guest Lecture on TFCS	Prof. Rahul Mohare,	9/10/2012
5	Ethical Hacking and Information Security Workshop (Loophole+Exploit level 2)	Mr. Sulabh Jain Kyrion Digital Securities Pvt Ltd. Delhi	19/10/2012 to 21/10/2012
6	Guest Lecture on Cyber Forensic and Ethical Hacking	Mr. Srinidhi S, Director Mandamus, Bangalore	23/10/2012
7	Seminar on Industrial Training	Mr. Animesh Jaipurkar, Director, Learnflow solutions , Nagpur	7/11/2012
8	Operating System	Mr. Punesh Tembhare PEC,Nagpur	28/01/2013
9	Computer Networks	Mr. PuneshTembhare PEC,Nagpur	29/012013
10	Compiler Construction	Mr. M M Goswami, NYSS, Nagpur	4/02/2013
11	TCP/IP	Mr. Punesh Tembhare	16/02/2013
12	Importance of GATE	Gate forum trainer Mr. Kiran Padhye	7/02/2013
13	Computer Architecture and Organization	Prof. Neeta Thakre	9/03/2013
14	Android Workshop	Mr. Swapnil Mahhatre, Android expertise, Concourse	9/03/2013 to 10/03/2013
15	New trends in Data Analytics, Integration and Business Intelligence	Mr.Mukesh Mohania, ACM Distinguished Speaker, STSM and IBM Master Inventer in IBM India Software Lab	15/03/2013
16	OOP's and Threads in JAVA	Jyoti Jahwar, CEO, ISAAC Academy	6/04/2013
17	Loaders : Concepts and Programming	Mr. N.V. Chaudhary, HoD, DBACER, Nagpur	27/04/2013
18	NP Hard, NP Complete Concepts	Dr. S R Sathe, VNIT, Nagpur	30/04/2013

Session 2011-12

SN	Event Topic	Expert Details	Date
1	Workshop on Teaching Engineering using Labview	Dr. Manali Kshirsagar in association with indo-US collaboration for engineering Education, Karun Jain, National Instruments	28/06/2011 to 31/06/2011
2	FDP on Web Technologies	CT Dept, Y.C.C.E. , Nagpur and ADCC Infocad Ltd, Nagpur	3/08/2011 to 31/10/2011 (Every Saturday)
3	Workshop on IBM RFT for Faculty and students under IBM Software CoE	Mrs. Kavita Singh	10-13/08/2011
4	National Level workshop on Cyber Security Awareness	Mr. Rakshit Tondon Mr. Sagar Raturkar, Mr. N. Vijayshankar,	26/08/2011
5	Guest Lecture on how to face HR Interview - The Intricacies	Mr. Swapnil Shukla, HR Manager Wipro	30/08/2011
6	Guest Lecture on 8051 Microcontroller	Mr. A. P. Deshpande	7/09/2011
7	Guest Lecture on Artificial Intelligence	Mr. Punesh Tembhare	14/09/2011
8	CT Student Council and ACM Chapter installation	Mr. Aditya Joshi, Infocept Nagpur	19/09/2011
9	Guest Lecture on GRE	Mr. Rahul Upghlawar, Director, ICAD	18/01/2012
10	Seminar on network Security	Mr. Manoj Raj, Neywork Hub, Nagpur	7-8/02/2012 17-18/02/2012
11	Seminar on Android	Mr. Abhiram Gandhe	15/02/2012

33. List the teaching methods adopted by the faculty for different programmes.

- Lectures interspersed with discussions
- Lectures with quiz
- Tutorial
- Demonstration
- Group Discussions
- Group Assignment/Project

- Presentations and Seminar
- Interactive Learning
- Class room teaching with Chalk and Board
- Individual Assignments
- Use of PPT (NPTEL, DTEL Material)

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Every Course teacher briefs the programme objectives and outcomes of the courses along with the methods that would be used to evaluate it
- The question paper of every course is set as per mapped COs/POs
- For laboratory courses continuous assessment is done throughout the session
- The PO attainment evaluation is done by considering student's performance in Mid semester Exams, End semester Exam, Assignments, Projects, Seminars as well as performance of students in activities organized/participated
- Course report is obtained from every course teacher which reveals the Gaps in the course
- Feedbacks from stakeholders (Employee, student, parents, alumni, and employers) contribute to evaluate/analyze whether the set objectives are met or not.
- If not, corrective actions are planned

35. Highlight the participation of students and faculty in extension activities.

The department participates in many social activities like blood donation camps, anti-smoking campaigns, I vote for better India campaign, Swachchata Abhiyan in campus, Nirmalya (Flower and other Waste from Worship of God) Sankalan on the occasion of Ganapati Visarjan at prominent places in the city, traffic rules awareness programmes for the students in collaboration with RTO, Nagpur and Jan Aakrosh - an NGO and many more. WINGS - a society of students of the institution is formed in 2013 which has given recognition to the initiatives and involvement of students and faculty members in all the above activities organised at college level on social responsibilities. SWAS – a society of students formed in 2014 to help needy farmers in drought hit Marathwada region and promotion of reading habits amongst young students.

In addition to this, faculties and students of Computer Technology department were involved in training program organized for school students from rural area of Wanadongri, Nagpur. This training program includes basic knowledge of handling computer and internet. Department extended this program by donating books to the schools. Department also organized essay writing competition in schools from rural area on topic “India of My Dream – A Vision of Dr. A. P. J. Abdul Kalam” and gave cash prize to the winners to encourage the students.

36. Give details of “beyond syllabus scholarly activities” of the department:

- Possibility, motivation and Scope for self-learning is already created by virtue of DTEL.
- All the teachers deliver few topics beyond syllabus, which are mentioned in the teaching plan.
- Faculty encourages the students for self-learning while giving assignments, quiz, technical paper writing contests etc.
- 08 marks are allotted in the internal assessment out of 40 marks.
- Learning facilities, and availability of materials for learning beyond syllabus.
- Department of Technology Enhanced Learning (DTEL) office is established for the creation of self-learning facility for subjects according to RTMNU and autonomous syllabus.
- VoD^s& VCDs from IIT Kharagpur and NPTEL material are made available to the students for reference.
- E-books are available in campus-wide network.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

SN	Name of Accredited UG/PG Programme/s	Accrediting Agencies	Type/Duration of Accreditation
1	B.E in Computer Technology	NBA	Five years wef 06/02/2003 (F.No. NBA/ACCR -108/2001 dated 11/02/2003)
		NBA	Three years wef 13/03/2009 (F.No. NBA/ACCR-953(W)/2007 dated 24/03/2009)
		NBA	Provisionally / 02 Years w.e.f 04/02/2014 (F. No. 28-194/2010-NBA)

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- Exclusive Departmental Infrastructure
- Well Equipped Laboratories with 430+ Computers
- Well Qualified, Young and Motivated Faculty
- Student Centric Teaching Learning Process
- Value added courses for learning beyond curriculum
- Academic Autonomy
- Active Student Societies – CTSC and ACM Student Chapter

Weaknesses

- Insufficient interaction with scientist from research institutions.
- Less contribution in Research / Proposal submission.
- Less number of Professors.
- Comparatively lesser consultancy and software development opportunities.
- Faculty with industrial experience are less in number.

Opportunities

- Enhance Industry Institute Interaction through collaborative activities.
- Enhance R&D activities through grants under various funding schemes.
- Work in interdisciplinary areas/projects.
- Offer more industry aligned professional elective courses.

Challenges

- Mushroom growth of engineering institutions.
- Non-availability of senior faculty with industrial exposure.
- Placement of students in premier software companies with high package.
- To keep faculty abreast with latest technology.

39. Future plans of the department

- Development of faculty expertise in identified Thrust Areas.
- Development of Infrastructure in Thrust Areas.
- Encourage faculty for acquiring higher qualifications.
- Development of *e*-Resources.
- Adoption of emerging technologies in curriculum.
- Improve Quality of Technical Publications.
- More efforts on preparing students for higher studies and entrepreneurship.

Information Technology Department

1. Name of the Department & its year of establishment

- Department of Information Technology
- Established in 2001

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Level	Programme of Study	Started in Year	Current Intake
UG	B. E. in Information Technology	2001-02	60
PG	M. Tech in Information Technology	2012-13	18
Ph.D.	Information Technology	2012-13	10

3. Interdisciplinary courses and departments involved:

S.N.	Courses	Departments Involved
1	Engineering Mathematics	Applied Mathematics and Humanities
2	Discrete Mathematics & Graph Theory	Applied Mathematics and Humanities
3	Digital Circuits and Switching Theory	Electronics Engineering
4	Information Theory and Communication	Electronics and Telecommunication
5	Industrial Economics & Human Resource Management	Applied Mathematics and Humanities
6	Project Management	Applied Mathematics and Humanities
7	Web Technology (FE-I) Object oriented Programming (FE-II) E-Commerce(FE-II) Information security(FE-II) Advance computer networks (FE-I)	Electrical Engineering, Electronics Engineering, Electronics and Telecommunication, Mechanical Engineering, Civil Engineering

4. Annual/ Semester/Choice Based Credit System:

S. N.	Course	Name of Program	Credit System
1	UG	B.E. Information Technology	Semester Based Credit System
2	PG	M.Tech (Information Technology)	
3	PhD	Information Technology	NA

5. Participation of the department in the courses offered by other departments

Information Technology department faculty conducts the Information Technology related courses offered by other departments, also

The students of Information Technology register/opt for the free elective courses offered by the other departments.

The details are as indicated in the table:

S.N.	Course Name	Department Involved	Semester
1	Introduction to Computer Programming	First Year	I/II
2	Environmental Management	Civil Engineering	VI
3	Building Services Engineering		VI
4	Construction Techniques in Engineering		VI
5	Data Acquisition & Signal Conditioning	Electronics Engineering	VI
6	Microprocessor & Microcontroller		VI
7	Renewable Energy Generation Systems	Electrical Engineering	VI
8	Applications of Electrical Machines		VI
9	Microcontroller & Embedded Systems	Electronics and Telecommunication	VI
10	Principals of Communication Engineering		VI
11	Operations Research Techniques	Mechanical Engineering	VI
12	Automobile Engineering		VI
13	Plastic Engineering		VI
14	Elements of Earthquake Engineering	Civil Engineering	VII
15	Air Pollution & Solid Waste Management		
16	Fuzzy logic & Neural Networks	Electronics Engineering	VII
17	Basic of Analog and Digital Communication Systems		
18	Electrical Energy Audit and Safety	Electrical Engineering.	VII
19	Utilization of Electrical Energy		
20	Soft Computing	Electronics and Telecommunication	VII
21	Industrial Instrumentation		
22	Probability Theory & Statistical Inference	Applied Mathematics and Humanities	VII
23	Total Quality Management	Mechanical Engineering	VII
24	Reliability Engineering		

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professor	02	00	01	01
Associate Professors	04	01	00	00
Asst. Professors	14	18	02	02
Total	20	19	03	03

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

S. N.	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Dr. Ujwalla Gawande	Ph. D.	Asso. Professor	Image Processing & Computer Vision	12.5 Yrs
2	Dr. K. K. Bhoyar	Ph. D.	Professor	Image Processing & Machine Learning	25 Yrs
3	Prof. R. C. Dharmik	M. Tech, Ph.D. (pursuing)	Asst.Professor	High performance computer Networks	17 Yrs
4	Prof. S. W. Shende	M. Tech, Ph. D. (pursuing)	Asst.Professor	High performance computer Networks	15.3 Yrs
5	Prof. Mrs. R. A. Fadnavis	M. Tech.	Asst.Professor	Data Mining and Warehousing	15 Yrs
6	Prof. N. R. Wankhade	M. Tech.	Asst.Professor	Image processing & Algorithms	12 Yrs
7	Prof. S. G. Kale	M. Tech.	Asst.Professor	Data Mining Warehousing	12 Yrs
8.	Prof. S. R. Jain	M. Tech., Ph.D. (pursuing)	Asst.Professor	Computer Networks	13 Yrs

9	Prof.M.K. Hadap	M. Tech., Ph.D.(pursuing)	Asst.Professor	Computer Network	23 Yrs
10	Prof.M.S. Deshkar	M. Tech.	Asst.Professor	Network Security	14.9 Yrs
11	Prof. B. U. Bawankar	M. Tech.	Asst.Professor	High Performance Computer Architecture	7.8 Yrs
12	Prof. A. D. Gaikwad	M. Tech.	Asst. Prof	Computer Networks	4.5 Yrs
13	Prof. P.G. Jaiswal	M. Tech.	Asst. Prof	Image processing	5.5 Yrs
14	Prof. Y.Golhar	M. Tech.	Asst. Prof	Computer Networks	7.2 Yrs
15	Prof. G.K.Yenurkar	M. Tech.	Asst. Prof	Embedded Systems	5.4 Yrs
16	Prof. S. S.Chavan	M. Tech.	Asst. Prof	High Performance Computer Architecture	4.3 Yrs
17	Prof. R. S. Bhanuse	M. Tech.	Asst.Professor	High Performance Computer Architecture	5.4 Yrs
18	Prof. P. Hatwar	M. Tech.	Asst. Prof	Computer Networks	3 Yrs
19	Prof. Disha Gupta	M. Tech.	Asst. Prof	Data mining and Warehousing	1.6 Yrs
20	Prof. Kamal Hajari	M. Tech.	Asst. Prof	Image processing	1.4 Yrs
21	Prof. Mayur Khante	M. Tech.	Asst.Prof	Image processing	0.5 Yrs
22	Prof. P.R. Tambekar	M. Tech.	Asst. Prof	Data Mining & Warehousing	1 Yr

8. Percentage of classes taken by temporary faculty – programme-wise information: Nil

9. Programme-wise Student Teacher Ratio:

Year	STR (UG)		STR (PG)	
	As per actual Strength	As per Intake	As per actual Strength	As per Intake
2015-16	13.66	18	6.66	12
2014-15	25.33	24	11	12
2013-14	23.6	21.6	12	12
2012-13	21.36	19.63	06	12
2011-12	15.55	18	---	----

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

S.N.	Staff	Sanctioned	Filled
1	Administrative Staff	02	02
2	Academic Support Staff (Technical)	06	06

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. : NIL

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:

S.N.	Title of Research Project	Funding Agency	Status	Name/s of Faculty Involved	Grant Received
1	Advanced Computing Lab	MODROB	Completed	Dr.K.K.Bhoyar	10 Lac
2	FIST –HP Workstation	DST	In process	Mr.R.C.Dharmik	3 Lac

13. Research facility / centre with

- state recognition

Department of Information Technology is approved research center of R.T.M. Nagpur University for pursuing Ph.D and M.E. (by research)

14. Publications:

- number of papers published in peer reviewed journals (national / international)

Year	Journal Publications		Conference Publications		Total
	International	National	International	National	
2014-15	22	NIL	14	NIL	36
2013-14	25	NIL	02	01	28
2012-13	02	NIL	06	01	09
2011-12	07	NIL	09	06	22
Total	56	00	31	08	95

- Monographs: **NIL**
- Chapter(s) in Books: **NIL**
- Editing Books: **NIL**
- Books with ISBN numbers with details of publishers: **NIL**
- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.):

SN	Name of Author/s	No. of Publications Listed in International Database
1	Dr.U.H.Gawande	03 (Scopus)
2	Dr.K.K.Bhoyar, Dr.U.H.Gawande	04 (EBSCO)

- Citation Index – range / average:

SN	Name of Author/s	Citation Index
1	Dr.K.K.Bhoyar	73
2	Dr.U.H.Gawande	34
3	Mr. Y.Golhar	03
4	Mr.K.Hajari	01

Range of Citation Index: **1 to 73**

Average Citation Index: **27.75**

- SNIP- 2.212 – 2.729
- SJR- 0.16
- Impact factor – range / average: 1.12 to 5
- Impact Factor Range: Min.: 1.12 Max.: 5 (Average: 2.5)
- h-index - 04
- i-index – 02

15. Details of patents and income generated

S.N.	Details
1	Filed Patent on “Inter Radial Segment Based Feature Extraction for Iris Recognition”, Application No is 2229/mum/2014 having CBR No 10917 (http://www.ipindia.nic.in/ipr/patent/journal_archieve/journal_2014/pat_arch_112014/official_journal_28112014_part_i.pdf) Dated: 08/07/2014 by Dr. Ujwalla Gawande, Prof. K. Hajari and Prof Y.G.Golhar
2	Copyrights for Teaching Material of Digital Image Processing:Diary Number: - 5781/2015-CO/L by Dr. Ujwalla Gawande, Prof. K. Hajari and Prof Y.G.Golhar
3	Copyrights for Teaching Material of Computer Graphics:Diary Number: - 5779/2015-CO/Lby Dr. Ujwalla Gawande, Prof. K. Hajari and Prof Y.G.Golhar
4	Copyrights for Teaching Material of Neural Network and Fuzzy Logic:Diary Number: - 5780/2015-CO/Lby Dr. Ujwalla Gawande, Prof. K. Hajari and Prof Y.G.Golhar

16. Areas of consultancy and income generated

S.N	Area/ Title of Project	Organization / Industry	Name of Faculty involved	Duration of Project	Amount
1	Prometric Testing Center	Prometric	Prof. M.K. Hadap, Prof. S. Shende, Prof. Swati Kale	2013-14 2014-15	5.15 L
2	Networking and Implementation of HW for DC&DRC	Tirupati Urban Cooperative Bank	Prof. Manish Hadap, Nisha Wankhade	2013-14 2014-15	7.80 L
3	TCS online examination (TCS, GATE, CDAC, CET)	Tata Consultancy Services	Prof. M.K. Hadap, Dr. Ujwalla Gawande	2013-14 2014-15	7.50 L

17. Faculty recharging strategies:

- **Permissions for pursuing higher studies**

As per the provisions of the policy to promote acquisition of higher qualification by the faculty, 15 days study leave in one semester can be availed for doctoral research related work. During the term of the report 04 faculty members have availed this facility. In addition, the academic assignments of such faculty members were rescheduled to suit the mandatory course work to be done at the place of research.

- **Attending faculty development & training programmes**

Permission and financial assistance are given to faculty members for attending faculty development programmes or training programmes as per the training needs identified by the department.

- **Permissions & Financial assistance for attending workshops & conferences etc.**

As per policy the financial assistance for paper presentation / attending workshops etc. is extended in the form of registration, travelling and incidental expenses.

- **Skill upgradation training for faculty**

Newly recruited faculty members are deputed for skill upgradation training to specialized organizations

- **Promotions to higher posts as per availability**

The faculty members are promoted to higher position after acquisition of higher qualification/ training/expertise under Career Advancement Scheme and Internal Promotion Scheme.

- **Faculty Mentor Scheme**

The junior faculty works in tandem with the senior faculty of the department for quality teaching of the courses.

18. Student projects

- percentage of students who have done in-house projects including inter-departmental
- percentage of students doing projects in collaboration with industries / institutes

Year	UG Projects		PG Projects	
	In-House	Collaborative with Industry/ Institutes	In-House	Collaborative with Industry/Institutes
2014-15	94.73%	5.26%	100%	----
2013-14	86.90%	13.01%	100%	----
2012-13	90%	10%	---	----
2011-12	89.48%	10.52%	---	----

19. Awards / recognitions received at the national and international level by

- **Faculty:**

SN	Name of Faculty	Award / Recognitions	Awarding Organization	Year
1	Dr. K.K.Bhojar	Organizing Committee member of ACM compute India	VNIT & ACM India	2013-14
		Vice Chair for Nagpur ACM Chapter	ACM India	2014-15
		Keynote speaker	STTPs, FDPs	2012-15
		Joint Project	Hardvard University, MIT	2014-15
		Faculty on University affiliation Committees and LECs	RTMNU, Nagpur	2012-15
		Supervisor for Ph.D. & M.E. by Research	RTMNU, Nagpur	2012-15
		Ph.D. Thesis Evaluator /Examiner	SVNIT, Surat	2012-15
2	Prof. R.C. Dharmik	Reviewer of International Conference on Information systems and Computer Networks	GLA University Mathura	2011-12, 2012-13
		Associate Editor (ISSN: 2249-3905) Online, (ISSN: 2349-6525)	International Journal of Research in Engineering and Applied Sciences	2014-15
3	Prof. S. Shende	Reviewer of International Conference on Information systems and Computer Networks	GLA University Mathura	2011-12, 2012-13
4	Prof. R.A.Fadnavis	Reviewer of International Conference on Information systems and Computer Networks	GLA University Mathura	2012-13
5	Prof. S.W.Kale	Reviewer of International Conference on Information systems and Computer Networks	GLA University Mathura	2012-13
6	Prof. M. Deshkar	Reviewer of International Conference on Information systems and Computer Networks	GLA University Mathura	2012-13

- **Doctoral / post doctoral fellows**

SN	Name of Faculty	Doctoral/Post-Doctoral Fellow	Year of Awarding
1	Dr.U.H.Gawande	Doctoral	2013-14

- **Students**

Year	SN	Name of Student/s	Award/Recognition Details	Awarding Organization
2014-15	1	Ms.Afreen Shaikh	Best Project Award	YCCE, Nagpur
	2	Mr. Mayur Khante	Best Paper Award (PG)	Anjuman college of Engineering, Nagpur
	3	Ms. Dolly Jeswani	Best Paper Award (PG)	Institute of Research and Journal, Pune
	4	Ms. Rucha Wankhade	Best Project Award (2 nd Prize)	PCOE, Nagpur
2013-14	1	Ms. Leena Kharche	Most Outstanding student & Overall Topper	YCCE, Nagpur
	2	Mr.Pranjal Patil	Best Paper Award	National Conference Spandan 21-22/3/2014
	3	Ms. Aswini Bhivgade	“Code frenzy” and “Guess Me Face Me” (1 st and 2 nd prize)	PRAJWALAN – 25–26/02/2014 Govt College of Engg. Amravati
2012-13	1	Mr. Suraj Porte	Best Paper Award	National Conference, Spandan 15-16/3/2013, YCCE
	2	Ms.Swati Shelar	Best Paper Award	JIT, Yavatmal
	3	Ms.Kumari Monu	Best Paper Award	National Conference, on recent trends in IT, 9/03/2013 JIT, Yavatmal
	4	Ms. Aswini Bhivgade	Code frenzy” and “Enciphaer C/C++” 1 st Prize	PRAJWALAN Govt College of Engg. Amravati 15-16/3/2013
	5	Ms. Leena Kharche	Best Paper Award	National Level Paper Competition ICON-13 23/03/2013)
2011-12	1	Rohal Chava	Basketball, Athletica, NASSIF,1 st Runner up	YCCE, RTMNU



20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Year	S N	Event Name	Resource Persons	Source of funding	Organized for	Outstanding Participants
2014-15	1	ICT Two week Workshop on “ Computer Networking”	On-Line	IIT Bombay through ICT (MHRD)	Faculty	NIL
2013-14	1	Android Application Development	Mr.Pratik Kumar, Senior, Android, Developer, Mooc Mentor, Study Copter, Delhi	YCCE	Faculty & Student	NIL
	2	Two day Linux Workshop	Mr. P. Thakur, Exec.Officer, Unisoft Technology, Nagpur	YCCE	Student	NIL
2012-13	1	STTP on Database Magt.System	On-Line	ICT, Dept. IT, YCCE, Nagpur	Faculty	NIL
	2	SPANDAN	--	YCCE	Student	05
2011-12	1	ISTE STTP Applications of Soft Computing Techniques in Data Mining “	Dr. P.S.Deshpande, Dr. K.K.Bhojar	YCCE	Faculty	03



21. Student profile course-wise:

Year	Name of Program with Intake	No. of Enrolled/ Admitted		Pass Percentage (%)	
		Male	Female	Male	Female
Admission Year(2011-12), Passing Year (2014-15)	UG (60)	35	43	77.14%	88.37%
Admission Year (2013-14), Passing Year(2014-15)	PG (18)	11	07	100%	100%
AdmissionYear (2010-11), Passing Year (2013-14)	UG (60)	31	38	77.41%	84.21%
Admission Year (2012-13), Passing Year(2013-14)	PG (18)	10	08	80%	100%
Admission Year (2009-10), Passing Year(2012-13)	UG (60)	33	44	48.48%	95.45%
Admission Year(2008-09), Passing Year (2011-12)	UG (60)	41	23	60.97%	91.30%

22. Diversity of Students:

Year	Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
2014 - 15	UG	00	94.73%	5.26%	00
	PG	6.66%	93.33%	00	00
	PhD	00	00	00	00
2013 -14	UG	00	98.92%	1.07%	00
	PG	5.55%	94.44%	00	00
	PhD	00	20%	00	00
2012-13	UG	00	97.87%	2.12%	00
	PG	5.55%	94.44%	00	00
	PhD	10%	50%	00	00
2011-12	UG	00	95.18%	4.81%	00
	PG	--	--	--	--
	PhD	--	--	--	--

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Year	Number of students Cleared Examinations					
	GATE	GRE/ GMAT	CAT	Defense Services	Civil Services	TOFEL/ CMAT//CEED
2014-15	03	--	--	--	--	--
2013-14	01	01	--	--	--	01 (TOFEL)
2012-13	03	--	--	--	--	01 (CMAT)
2011-12	01	--	--	--	--	01 (CEED)

24. Student progression

Student Progression	Percentage against Enrolled			
	2011-12	2012-13	2013-14	2014-15
UG to PG	4.41%	NIL	1.25%	1.29%
PG to Ph.D.	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
Employed Campus Selection	39.70%	18.91%	47.5%	57.14%
Off Campus Selection	17.64 %	14.86%	7.5%	NIL
Entrepreneurs/Self Employment	--	--	--	1.29%

25. Diversity of staff

Percentage of faculty who are graduates	
From the same college	27.27 %
from other universities within the State	68.18%
from other universities from other States	4.54%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. : NIL

27. Present details about infrastructural facilities

SN	Infrastructure facility	Details related to Department	Numbers Available	
			Title	Volume
1	College Library	Books	--	--
		Information Technology	1006	3769
		ITPG	162	439
		IEL online Journals (E – journal package for branches (CT/IT/EE/ET/EL)	--	2833

		Journals and periodicals	--	--
		Information Technology	--	07
		ITPG	--	05
		E-resources	--	--
		CDs	01	01
		DVDs	02	69
		VCDs	01	32
		Total E-resources	04	102
		NPTEL	07	07
		E – books (Wiley)	06	06
		E – books package (Springer)	9703	9703
2	Departmental Library	Book Titles	173	
		Project Reports (UG/PG)	86 UG + 36 PG = 122	
		Any Other CBT	15	
3	Internet facilities for staff and students in the department	No. of Computers (Staff + Lab)	209	
		No. of Computers with Internet Facility	26 (Faculties) + 20 (M. Tech) + 20 (Project Lab) + 10 (Open source) = 76	
4	Class Rooms with ICT Facility	No. of Class Rooms with ICT Facility	03/03 = 100%	
5	Student Laboratories	No. of Student Laboratories	09	
6	Research Laboratories	No. of Research Laboratories	01	

28. Number of students of the department getting financial assistance from College.

UG

Year	No. of students Getting Financial Assistance For			
	GATE Exam	Final Year Project	Paper Publications	Fee Concession
2014-15	56	Nil	Nil	4
2013-14	35	Nil	Nil	7
2012-13	Nil	Nil	Nil	5
2011-12	Nil	Nil	Nil	3

PG

Year	No. of students Getting Financial Assistance For		
	Final Year Project	Paper Publications	Fee Concession
2014-15	Nil	01	03
2013-14	Nil	01	02
2012-13	Nil	Nil	Nil
2011-12	NA	NA	NA

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

YES.

M.Tech. in Information Technology has been started since 2012-13.

For this program Need assessment exercise was based on:

- Industry demand for IT post graduates.
- Academic Institutes demand for IT post graduates.
- The different courses delivered for the equivalent programs by the institutes of national and International repute were studied.
- The model curriculum recommended by AICTE was taken into consideration.
- Curriculum design was based on feedback from alumni, R & D agencies, Faculty, Industry etc.
- Under Board of Studies (BOS) various, Meetings were held to finalize the structure and Syllabus of the PG program.
- BoS constitutes external members from Industry, Academic Institutes, University Representative, Alumni of the department and all senior internal faculty of the department.
- Then the curriculum development workshop was organized for the PG course.
- The modified draft was then tabled in the subsequent BoS meeting for their approval and later on in Academic Council meeting held at institute level.

30. Does the department obtain feedback from

The feedback is collected for all the courses: **YES**

**1. Faculty on curriculum as well as teaching-learning-evaluation?
If yes, how does the department utilize it?**

- Course completion report
- Informal Feedback from faculty
- Discussions in Board of Studies meetings
- HoDs monthly meeting



2. Students on staff, curriculum as well as teaching learning evaluation and what is the response of the department to the same?

- Feedback collection process: Feedback is collected by the office of Dean Academic Matters. Once each before MSEs and one before ESE for autonomy programs and once for University programs.
- Percentage of students participating: Around 85 to 90 % percentage of students participated in the feedback process. The feedback is analyzed on computers to assess the teaching capabilities, teachers' habits, usage of technology in the classroom, subject contents and overall satisfaction level of students.
- Corrections required in each teacher's delivery method, improvement in technical contents through usage of technology, effectiveness of the teacher and finally the grading of teachers on the basis of feedback collected is arrived at through the analysis.

- The Feedback Report on teaching learning process are discussed with the teachers by Head of the Department in informal meeting. A special committee consists of the Principal, Dean (Academic Matters) and head of the department interacts with the teachers with score less than the benchmark score to understand the problems and to exhort the teacher to perform better.
- Basis of reward/corrective measures: Teachers with very good score are issued the appreciation letters while those with the low score are advised to introspect for the improvement. They are issued the letters to improve the performance. They are helped by the seniors in the department too. The special training sessions by the qualified third party agency is engaged to help the teacher whenever needed. In case the feedback is very poor and the teacher has shown no significant improvement, then he is asked to leave.
- Extraneous factors, like hard/soft attitude of teacher are considered.
- The result of the subject taught by the teacher is also considered.

3. Alumni and employers on the programmes and what is the response of the department to the same?

- The feedback from alumni is taken in the alumni meet.
- The feedback form is given to Industry when they come for campus and is normally received by mail
- The feedback from parents is taken during parents meet.
- The feedback from alumni and industry is analyzed by Training and placement department and parent's feedback is analyzed by respective academic departments.

The major corrective actions based on feedback

- Infrastructure improvement by providing Auditorium of capacity more than 500.
- Training on communication skills, personality development programmes (MFS).
- The period for books borrowed increased from Two weeks to Three weeks.
- Improvement in sanitary and drinking water facility.
- Modification in the course content
- Introduction of new practical
- Student development programmes like GENNEXT, TiE and CRT.

31. List the distinguished alumni of the department

SN	Name of Student	Designation	Organization
1	Atul Nimje	Sr. Software Engineer	Dell, San Fransisco, California.
2	Shyam Rokde	Sr. Software Engineer	Visa, California
3	Shashank Mankar	Manager	Tata Tele Services, Pune
4	Gopal Chandak	Consultant	Principle Globle Services Pvt. Ltd, Pune
5	Puneet Garud	Sr. Software Engineer	TCS, Mumbai
6	Sandeep Pattalwar	Sr. Software Engineer	TCS, Mumbai
7	Vishal Agrawal	Sr. Software Engineer	Wipro Technologies, Singapore
8	Ms. Divya Sharma	Sr. Software Developer	Newgen software Technology Ltd.
9	Hitesh Thakkar	Sr. Software Engineer/ Business Analysis	Dell Global Analytics
10	Rohit Akhairamka	Business Tech Analyst	Deloitte Consulting
11	Mr. SagarLonkar	Team Lead, S/W developer	Persistent System Pvt, Ltd
12	Nandita Singhaniya	Team Lead, S/W developer	Hexaware Technology

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

2014-15

SN	Event Topic	Expert Details	Date
1.	Guest Lecture on “ Carrier Opportunities and Personality Development”	Mr. Rishi Chourasia	30/12/2014
2.	Expert lecture on GATE preparation	Mr.KiranUpadhyay	07/08/2014
3.	Expert lecture on Open Source Software Moments	Mr.Tripad Mishra	09/08/2014
4.	Guest lecture on “TOC”	Dr. S.R.Sathe	31/03/2015
5.	Guest lecture on “Overview of Business Intelligence”	Mr. Adithya Joshi	10/04/2015
6.	Guest lecture on “NP-Hard and Complete”	Dr. S.R.Sathe	26/11/2014
7.	Guest lecture on “Various Interfaces”	Dr. U.Shrawankar	07/04/2015
8.	Guest lecture on “Algorithms And Optimization”	Mr.Prashant Borkar	08/04/2015
9.	Guest lecture on “TCP/IP and CSS”	Mr.P.U.Thembre	18/04/2015



2013-14

SN	Event Topic	Expert Details	Date
1.	Guest Lecture on DBMS	Mr.Chetan Jaiswal	07/01/2014
2.	Guest Lecture on CAO	Mr.Akhil Anjekar	18/01/2014
3.	Guest Lecture on Applications of Data Mining in Health Care Systems	Mr. Sushrut Popholi	07/02/2014
4.	Guest Lecture on Gate Préparation	Mr.Punesh Tembhare	11/02/2014
5.	Guest Lecture on DMW	Mr. Ashwin Balani	10/3/2014
6.	Guest Lecture on Personality Development	Mrs.S. Barapatra	11/3/2014
7.	Guest Lecture on Network Security	Mr. PuneshTembhare	01/04/2014
8.	Workshop on Android Application Development	Mr.Pratik Kumar	29/01/14-2/2/14
9.	Workshop on Linux	Ms.Pratigya Thakur	20/3/14–21/3/14



2012-2013

SN	Event Topic	Expert Details	Date
1.	Nano GATE	Gate Point	11/07/ 2012
2.	Guest Lecture on High Performance Computer Networks (Performance Modeling and Estimation)	Dr.S.R.Sathe	7/08/ 2012
3.	Nano GATE	IUCEE	27/08/ 2012
4.	IUCEE Webinar on Parallel Architecture and Programming	IUCEE	18/09/ 2012
5.	IUCEE Webinar on Introduction to Matlab	IUCEE	18/09/ 2012
6.	IUCEE Webinar on Preventing Catastrophe from Sophisticated Software Sabotage	IUCEE	25/09/2012
7.	IUCEE Webinar on Data Mining	IUCEE	26/09/ 2012
8.	IUCEE Webinar on Research Methodology	IUCEE	26/09/ 2012
9.	IUCEE Webinar on ABET Accreditation	IUCEE	27/09/ 2012
10.	IUCEE Webinar on Globalization in Engineering	IUCEE	27/09/ 2012
11.	IUCEE Webinar on Agile Software Development Overview	IUCEE	28/09/ 2012
12.	IUCEE Webinar on Compiler Design	IUCEE	04/10/ 2012
13.	IUCEE Webinar on C and Data Structure	IUCEE	05/10/ 2012
14.	Guest Lecture on Career Planning	Dr.S.V.Gole	17/10/ 2012
15.	Guest Lecture on Artificial Intelligence	Mr.P.UThembhre	10/11/ 2012
16.	Seminar on Journey from Learning Software Programmar to Expert Software Solution Architect	Mr. PratapSkukla	01/02/ 2013
17.	Guest Lecture on ERP Mobility	Mr. Shrikant Naidu	20/04/ 2013
18.	Guest Lecture on NP Completeness	Mr.P.U.Thembre	25/04/ 2013
19.	Guest Lecture on Decidable and Undesirable Problems	Dr. S.R. Sathe	30/04/ 2013
20.	Workshop on Linux	Ms.Pratigya Thakur	12/05/2013

33. List the teaching methods adopted by the faculty for different programmes.

- Use of PPT (NPTEL, DTEL Material)
- Class room teaching with Chalk& board
- Laboratory work
- Tutorial
- Demonstration
- Group discussions
- Group assignment/project
- Presentations & Seminar
- Interactive Learning
- Individual Assignments
- Technical Quiz and Competitions
- Guest Lectures
- Industrial Visit
- Project in Final year

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Course objectives and outcomes are defined for each Course.
- Course outcomes are mapped with Program outcomes
- Program outcomes are mapped with Program educational objectives
- The question paper of every course is set as per mapped COs
- Course teacher briefs the programme objectives and outcomes of their courses along with the methods that would be used to evaluate it
- For laboratory courses continuous assessment is done throughout the session
- Tutorial Classes are there in Timetable as per curriculum. This helps Students to work out the problems/assignments to clear the individual doubts
- Remedial teaching is also made available for students
 - At the end of semester the time table is displayed
 - Difficult & important topics are discussed
 - Individual queries / doubts are solved by teacher

- Mentoring System
 - Mentoring System to help students individually
 - Type of Mentoring offered are through Faculty Advisor / Teacher Guardian / Class Teacher
- Course outcomes are monitored through attainment process
- (For each course, MSE1, MSE2 and ESE question papers are mapped with Course outcomes. If Marks scored by each student is $\geq 50\%$ in each question then course outcome related with that question is mapped and accordingly program outcome will be attained.
- Course. outcomes are also monitored through indirect assessment (Guest lectures, workshop, seminar, quiz, assignment)
- Course report is obtained from every course teacher which reveals the Gaps in the course
- Feedbacks from stakeholders (Employee, student, parents, alumni, and employers) contribute to evaluate/analyze whether the set objectives are met or not.
- If not, corrective actions are planned

35. Highlight the participation of students and faculty in extension activities.

The department participates in many social activities like blood donation camps, antismoking campaigns, I vote for better India campaign, Swachchata Abhiyan on campus, Nirmalya (Flower and other Waste from Worship of God) Sankalan on the occasion of Ganapati Visarjan at prominent places in the city, traffic rules awareness programmes for the students in collaboration with RTO, Nagpur and Jan Aakrosh - an NGO and many more. WINGS - a society of students of the institution is formed in 2013 which has given recognition to the initiatives and involvement of students and faculty members in all the above activities organized at college level on social responsibilities. SWAS – a society of students formed in 2014 to help needy farmers in drought hit Marathwada region and promotion of reading habits amongst young students.

In addition to this, the students have collected over 3000 pairs of used cloths for victims of calamities faced by India during last couple of years.



36. Give details of “beyond syllabus scholarly activities” of the department:

- Possibility, motivation and scope for self-learning are already created by virtue of DTEL.
- Faculty encourages the students for self-learning while giving assignments, quiz, technical paper writing contests etc.
- Learning facilities, and availability of materials for learning beyond syllabus
- Department of Technology Enhanced Learning (DTEL) office is established for the creation of self-learning facility for subjects according to RTMNU and autonomous syllabus.
- VoDs & VCDs from IIT Kharagpur and NPTEL material are made available to the students for reference.
- E-books (springer) are available in campus-wide network.
- Guest Lectures, Interaction with Alumina, visit to research lab, Visiting Professor Scheme, industrial visit etc. are also planned.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

SN	Programme	Accrediting Agency	Period
1	B.E in Information Technology	National Board of Accreditation. New Delhi	02 Years from February 4, 2014, F.No. 28-194/2010-NBA
2	M.Tech. in Information Technology	--	--

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strength:

- Young, dynamic, enthusiastic and Qualified faculty working as a cohesive team (02 Ph.D., 04 Pursuing Ph.D., 16 ME/M. Tech., with average experience of 9 years)
- Excellent Infrastructure and State of the art Laboratories
- Good academic processes to support teaching-learning
- Excellent Teamwork and cooperation among staff, and transparency in all processes
- Autonomous status granted by UGC
- Student centric Teaching Learning Process

- Involvement of Industry Personnel and Academicians from reputed institute as Board of Studies members
- Excellent Campus placement
- Faculty members invited as Resource person at other Academic Institutions
- Accredited by NBA in 2014 and Re-accreditation is in process
- Good Industry Institute Interaction, Industry based Projects, Guest Lectures, seminars, workshops etc. for learning beyond curriculum (Value added courses)
- Faculty members serving as office bearers of professional societies.

Weakness:

- Poor Faculty Cadre Ratio and Faculty Retention
- Less contribution in Research Proposal submission and consultancy
- Non-qualified supporting staff
- Insufficient interaction with scientist from research institutions
- Less no. of quality research publications

Opportunities:

- Fast track growth as a major centre of learning in IT within next five years.
- Can provide consultancy in the areas of LAN design for corporate and academic institutions.
- Enhance Industry Institute Interaction through collaborative activities
- Enhance R&D activities through grants under various funding schemes
- Work in interdisciplinary areas/projects
- Offer industry aligned professional elective courses
- Starting PG Programme in Computer Engineering Discipline

Challenges:

- Mushroom growth of engineering colleges
- To produce quality graduates satisfying the dynamic requirements of IT Industry.
- To compete with academic institutes of repute
- To keep faculty abreast with latest technologies

- Non-availability of senior faculty with industrial exposure
- Improved package in Placement of IT companies
- Improvement in communication and presentation skills of students
- Changing the mindset of students from grade oriented to knowledge oriented.

39. Future plans of the department. –

Infrastructure:

- Development of Infrastructure in Thrust Areas (At least one R&D Lab)
- Development of one staff room

Faculty:

- Development of faculty expertise in identified Thrust Areas
- Development of e-Resources
- Encouraging faculty to apply for grants under various schemes (FDP, RPS, BRNS, SWSS, SG etc.) and consultancy projects
- Encourage faculty for acquiring higher qualifications (Ph.Ds)
- Adoption of emerging technologies in curriculum
- Organize Good FDP, STTP, workshops in thrust areas
- To improve in Quality Publications
- Faculty visits to reputed Educational and Research institutes and Industries
- Development of centre of excellence in the area of Digital Image Processing and Computer Vision
- Strengthen Collaborative Activities with Premier Institutions

Student:

- SDP on Project Development and Management, Simulation Tools etc.
- Industrial and research lab visits for exposure
- Motivate students for pursuing higher education (GATE Club-Expert Lecture, Seminars for higher education)
- Industry tie-ups for projects (ADCC, Infocepts, Persistent etc.)
- Improve the quality of projects
- Improve Student Participation in National / International events, Competitions, design contests

Applied Mathematics and Humanities Department

1. Name of the Department & its year of establishment

- Department of Applied Mathematics and Humanities
- Established in 1984

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Level	Programme of Study	Started in Year	Current Intake
PG	Ph.D. (Mathematics)	2010	02

3. Interdisciplinary courses and departments involved:

The interdisciplinary courses and departments involved is as given below:

S.N.	Subject	Departments Involved
1	Engineering Mathematics III	Information Technology, Computer Technology, Electrical Engineering, Civil Engineering, Mechanical Engineering, Electronics Engineering, Electronics and Telecommunication Engineering
2	Numerical methods and Statistical Techniques	Electrical Engineering, Civil Engineering, Mechanical Engineering, Electronics Engineering, Electronics and Telecommunication Engineering
3	Discrete mathematics and Graph Theory	Information Technology, Computer Technology
4	Engineering Economics	Electrical Engineering,, Electronics Engineering, Electronics and Telecommunication Engineering
5	Industrial Economics and Entrepreneurship Development	Mechanical Engineering
6	Engineering Management	Electronics Engineering, Electronics and Telecommunication Engineering, Electrical
7	Project Management	Information Technology

8	Probability theory and Statistical Inference	Information Technology, Computer Technology, Electrical Engineering, Civil Engineering, Mechanical Engineering, Electronics Engineering, Electronics and Telecommunication Engineering
9	Managerial Economics and HR Management	Computer Technology
10	Industrial Economics and HR Management	Information Technology

4. Annual/ semester/choice based credit system:

S. N.	Course	Name of Program	Credit System
1	Ph.D,	Ph.D. in Mathematics	NA

5. Participation of the department in the courses offered by other departments

Mathematics and Humanities department faculty conducts the Mathematics related courses offered by other departments also.

The students of engineering department register/opt for the free elective courses (started in 2015-16) offered by the Mathematics departments.

The details are as indicated in the table:

Subject	Department	Semester
Engineering Mathematics III	Information Technology, Computer Technology, Electrical Engineering, Civil Engineering, Mechanical Engineering, Electronics Engineering, Electronics and Telecommunication Engineering	III
Advance Mathematical Techniques	Computer Technology, Electrical Engineering, Civil Engineering, Mechanical Engineering, Electronics Engineering, Electronics and Telecommunication Engineering	III
Engineering Economics	Computer Technology, Electrical Engineering, Electronics Engineering, Electronics and Telecommunication Engineering, Info. Tech	V, VII
Engineering Management	Civil Engineering, Mechanical Engineering, Electronics Engineering, Electronics and Telecommunication Engineering	V, VI
Probability theory and Statistical inference	Computer Technology, Electrical Engineering, Civil Engineering, Mechanical Engineering, Electronics Engineering, Electronics and Telecommunication Engineering, Information Technology	VII

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Post	UG	
	Sanctioned	Filled
Professor	--	02
Associate Professors	--	05
Asst. Professors	--	13
Total	--	20

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.),

Year 2015-16

Name	Qualification	Designation	Specialization
Dr. K.L. Sarda	B.Sc., M.Sc., Ph.D., M.Phil.	Professor	Algebraic Coding Theory
Dr.S.C.Venkateswaralu	B.Sc., M.Sc., Ph.D	Asso.Professor	Math-Modeling
Dr. V.G.Miskin	M.Sc.,M.Phil.,Ph.D.	Asso.Professor	Relativity
Mr. G.R.Labde	B.Sc., M.Sc., M.Phil.	Asso.Professor	Thermoelasticity
Mrs. M.S.Dani	B.Sc., M.Sc.M.Phil.	Asso.Professor	Statistics
Dr.(Mrs.)M.P.Gandhi	B.Sc., M.Sc., Ph.D.	Asso.Professor	Fixed Point Theory
Mr, A.H.Siddiqui	B.Sc., M.Sc.	Asst.Professor	Relativity
Dr.P.B.Bahatarak	B.Sc., M.Sc., Ph.D., B.Ed.	Professor	Algebra
Mr.A.M.Kulkarni	B.Sc., M.Sc., B.A. (Addi), B.Ed.	Asst.Professor	--
Mr. A.J.Meshram	B.Sc., M.Sc., Ph.D. pursuing	Asst.Professor	Cryptography
Miss J.J. Bikram	B.Sc., M.Sc.	Asst.Professor	Thermoelasticity
Mr. D.P.Bawane	M.Sc,	Asst.Professor	Fuzzy Logic
Mr. M.N.Dandale	M.Sc,	Asst.Professor	Relativity
Mr. N.A.Bhosale	M.Sc,	Asst.Professor	
Dr.(Mrs.) Malabika Adak	B.Sc., M.Sc., Ph.D.	Asst.Professor	Thermo Mech. Analysis
Ms.Arviderkour Mehata	LL.M., M.B.A., M.I.R.P.M., Ph.D.pursuing	Asst.Professor	HR

Name	Qualification	Designation	Specialization
Mrs.V.Bhandarkar	B.A., M.A. (Eco)	Asst.Professor	Economics
Ms. Meenal Kale	B.A., M.A. (English Lit),Ph.D.pursuing	Asst.Professor	English
Mr. Akash Gedam	B.A., M.A.	Asst.Professor	Social Science
Dr.Praveen Domle	B.A., M.A., Ph.D.	Asst.Professor	English

8. Percentage of classes taken by temporary faculty – programme-wise information:

Year	Name of Programme	% of classes taken by temporary faculty
2014-15	UG	15%
2013-14	UG	15%
2012-13	UG	15%
2011-12	UG	15%

9. Programme-wise Student Teacher Ratio: NA

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled : Nil

11. Number of faculty with ongoing projects from a) National b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. :

Title of Research Project	Funding Agency	Status	Name/s of Faculty Involved	Grant Received (Lacks)
Application of fixed point theory in Engineering	UGC	Received approval	Dr. Mrs. M.P. Gandhi	2.54

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:

Title of Research Project	Funding Agency	Status	Name/s of Faculty Involved	Grant Received
Emerging Trends in Mathematics and its Applications in Science & Engg.	DST	Grant received	Dr. M P. Gandhi	0.75

13. Research facility / centre with

- state recognition
- national recognition
- international recognition

Department of Applied Mathematics is approved research center of R.T.M. Nagpur University for pursuing Ph.D., 2 research scholars are registered for Ph.D.

14. Publications:

- Number of papers published in peer reviewed journals (national / international)

Year	Journal Publications		Conference Publications		Total
	International	National	International	National	
2014-15	13	1	10	11	35
2013-14	7	0	10	4	21
2012-13	2	2	5	7	16
2011-12	3	0	0	3	6
Total	25	3	25	25	78

- Monographs: **Nil**
- Chapter(s) in Books: **Nil**
- Editing Books: **Nil**
- Books with ISBN numbers with details of publishers:

SN	Name of Author/s	Name of Book	Details (Publisher, DOI, ISBN, Year, Page Nos.
1	Prof.A.M.Kulkarni,	Applied Mathematics II	ISBN 818917824-5
2	Dr. M.P.Gandhi	Applied Mathematics II	ISBN 818917824-5
3	Dr.S.C.Venkateswaralu	Discrete Maths& Graph Theory	ISBN 818917883-0
4	Mrs. Mamta S. Dani	Discrete Maths& Graph Theory	ISBN 818917883-0
5	Dr. K.L.Sarda	Applied mathematics I	ISBN 81904304-5-9

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.): **Nil**
- Citation Index – range / average:

SN	Name of Author/s	Citation Index
1	Dr. M.P.Gandhi	5

Range of Citation Index: **0-5**

Average Citation Index: **2.5**

- SNIP
- SJR
- Impact factor – range / average: -
- Impact Factor Range: Min.:**0.456** Max.:**2.815** Average: **1.6355**
- h-index

15. Details of patents and income generated: Nil

16. Areas of consultancy and income generated: Nil

17. Faculty recharging strategies:

- **Permissions for pursuing higher studies :-**

As per the provisions of the policy to promote acquisition of higher qualification by the faculty, 15 days study leave in one semester can be availed for doctoral research related work. In addition, the academic assignments of such faculty members were rescheduled to suit the mandatory course work to be done at the place of research.

- **Attending faculty development & training programmes**
Permission and financial assistance given to faculty members attending faculty development programmes or training programmes as per the training needs identified by the department.
- **Permissions & Financial assistance for attending workshops & conferences etc.**
As per policy the financial assistance for paper presentation / attending workshops etc. is extended in the form of registration, travelling and incidental expenses.

- **Skill upgradation training for faculty :**
Newly recruited faculty members are deputed for skill upgradation training to specialized organizations.
- **Promotions to higher posts as per availability.**
The faculty members are promoted to higher position after acquisition of higher qualification/ training/expertise under Career Advancement Scheme and Internal Promotion Scheme.
- **Faculty Mentor Scheme**
The junior faculty works in tandem with the senior faculty of the department for quality teaching of the courses.

18. Student projects: NA

19. Awards / recognitions received at the national and international level by

- **Doctoral / post doctoral fellows :**

SN	Name of Faculty	Doctoral/Post-Doctoral Fellow	Year of Awarding
1	Prof. Praveen Domle	Ph.D. awarded by RTM University, Nagpur,	2014-15
2	Prof.V.G. Miskin	Ph.D. awarded by RTM University, Nagpur,	2013-14

- **Students: NA**

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Year	Event Name	Resource Persons	Source of funding	Participants
2014-15	Nat. conf. Emerging Trends in Maths & application in Sci. & Engg.	Participants are from universities of other state like M.P.,C.G.	Department of Science and Technology, Yeshwantrao Chavan College of Engineering	National level researchers
	Pedagogy for effective use of ICT in Education	RCOEM & YCCE	IIT, Bombay	Faculty
2012-13	Faculty Development workshop	YCCE,Nagpur	YCCE,Nagpur	Faculty

21. Student profile course-wise: NA
22. Diversity of students: NA
23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?:NA
24. Student progression: NA
25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	80%
from other universities within the State	10%
from other universities from other States	10%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Sr. No.	Name of Faculty	Degree Awarded	Degree Awarding Year
1	Dr. V.G.Miskin	Ph.D	2013
2	Dr.Praveen Domle	Ph.D	2015

27. Present details about infrastructural facilities:

SN	Infrastructure facility	Details related to Department	Numbers Available
1	College Library	Book Titles	974 (Maths) + 417 (comm. skills) + 399 (social science)
		Book Volumes	5008 (Maths) + 1808 (comm. skills) + 1101 (social science)
		Journals (Print + Online)	---
		Magazines & Periodicals	----
		E-Recourses Title (CD/DVD etc.)	9703 springer e- books
		E-Recourses Volume (CD/DVD etc.)	----
2	Internet facilities for staff and students	No. of Computers (Staff)	15
		No. of Computers with Internet Facility	15
3	Class Rooms with ICT Facility	No. of Class Rooms with ICT Facility	14

28. Number of students of the department getting financial assistance from College. : NA

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Curriculum development Workshop conducted for UG & PG courses

Year	Subjects	Experts	Nature of Interaction
2013-14	Engineering Mathematics I,II,III,Numerical Methods and Statistical Techniques, Discrete Mathematics and Graph theory, Computational Methods, Probability theory & Statistical Inference	Prof. G.P.Singh, VNIT, Nagpur Prof. Meshram, LIT, Nagpur Prof. G.S. Khadekar, RTMNU, Nagpur	Curriculum Development for B.E. (all branches) and M.Tech.

30. Does the department obtain feedback from

The feedback is collected for all the courses: **YES**

1. Faculty on curriculum as well as teaching learning evaluation? If yes, how does the department utilize it?

- Course completion report
- Informal Feedback from faculty
- Discussions in Board of Studies meetings.
- HODs monthly meeting.

2. Students on staff, curriculum as well as teaching learning evaluation and what is the response of the department to the same?

- Feedback collection process: Feedback is collected by the office of Dean Academic Matters. Once each before MSEs and one before ESE for autonomy programs, once for University programs.
- Percentage of students participating: Around 85 to 90 % percentage of students participated in the feedback process. The feedback is analyzed on computers to assess the teaching capabilities, teachers' habits, usage of technology in the classroom, subject contents and overall satisfaction level of students.
- Corrections required in each teacher's delivery method, improvement in technical contents through usage of technology, effectiveness of the teacher and finally the grading of teachers on the basis of feedback collected is arrived at through the analysis

- The Feedback Report on teaching learning process are discussed with the teachers by Head of the Department in informal meeting. A special committee consists of the Principal, Dean (Academic Matters) and head of the department interacts with the teachers with score less than the benchmark score to understand the problems and to exhort the teacher to perform better.
- Basis of reward/corrective measures: Teachers with very good score are issued the appreciation letters while those with the low score are advised to introspect for the improvement. They are issued the letters to improve the performance. They are helped by the seniors in the department too. The special training sessions by the qualified third party agency is engaged to help the teacher whenever needed. In case the feedback is very poor and the teacher has shown no significant improvement, then he is asked to leave.
- The extraneous factors, like hard / soft attitude of the instructor are considered.
- The result of the subject taught by the teacher is also considered

31. List the distinguished alumni of the department: NA

32. Give details of student enrichment programmes (special lectures)

SN	Date	Activity	Experts Details
1	5/10/2010	Motivational talk	Mr. Chetan Bhagat, writer
2	6/10/2011	Art of self management	Mr. Hemant Choudhari, VNIT,
3	22/12/2012	Lecture on Vedic Mathematics	Prof. S.P. Sharma, Institute of Vedic Mathematics, Nagpur
4	30/8/2012	Say no to drugs and tobacco	Dr. K.W. Deoghare,
5	10/8/2013	Teaching as a career	Dr. Surendra Gole, NIT , Nagpur
6	9/10/2013	Cyber Crime and Public relations with Police	Mr. Asok Baghul, Police Inspector, Nagpur
7	8/10/2013	Passport procedure awareness programme	Ms Krutika Parate, Manager, Uniglob Flight Travel
8	11/10/2013	India's contribution to Mathematics	Dr. Anant Vaywahare, Mohta Science College, Nagpur
9	28/8/2014 2/7/2013 17/9/2012	Arohan, Induction Programme for first year students	Every year for First Year students motivational talk is arranged
10	2013, 2014	Exhibition, communication Skills	Every year for First Year students it is arranged

33. List the teaching methods adopted by the faculty for different programmes.

- Chalk and board / white board
- Tutorials & Assignments
- Seminars /guest lectures
- Technical Quiz
- Use of DTEL material
- PPT
- Brain storming sessions.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- **Tutorial Classes**
 - Tutorial classes in Timetable as per curriculum
 - Students to work out the problems/assignments to clear the individual doubts
- **Remedial Teaching**
 - Remedial teaching is made available for students
 - At the end of semester the time table is displayed
 - Difficult & important topics are discussed
 - Individual queries / doubts are solved by teacher
- **Mentoring System**
 - Mentoring System to help students individually
 - Type of Mentoring offered is through Faculty Advisor / Teacher Guardian / Class Teacher

35. Highlight the participation of students and faculty in extension activities.

Year	SN	Name of Extension Activity	Participants
2014-15	1	Blood donation camp	240
	2	Tree plantation	---
	3	Helping poor child heart patient financially	First Year Students
	4	Traffic awareness programme	First Year Students
	5	Regular Medical & Dental check up Camps	First Year Students

36. Give details of “beyond syllabus scholarly activities” of the department:

S.N	Speaker	Affiliation	Title	Date
1	Dr.Anupam Agnihotri	Jawaharlal Nehru Aluminium Research Center	Address during Inaugural Function of STTP Multidimensional role of Applied Sciences in National Development	13/7/2015
2	Prof. Swaminathan A.	IIT, Roorkee	Applications of Differential equations in real life problem	13/7/2015
3	Prof.M.K.Yenkie	LIT , Nagpur	Chemicals; Handle With care	14/7/2015
4	Dr.Adinath Kulkarni	BARC, Mumbai	Role of Applied Sciences in Development of Nuclear Energy	14/7/2015
5	Mrs. Jayshree Pendarkar	CIIMS Hospital , Nagpur	Health and well being through Nutrition	14/7/2015
6	Prof.Anant Pande	YCCE, Nagpur	Research and funding Proposal	14/7/2015
7	Dr..Kavita Singh	YCCE, Nagpur	Latex Theory and Practica	14/7/2015
8	Mrs.Sneha Gachake	SSGMCE, Shegaon	Yoga ; Golden Key of health	15/7/2015
9	Prof. Ramesh Singru	IIT, Kanpur	Emerging trend in Teaching and research at Engineering colleges	15/7/2015
10	Kaustuv Chatterjee	Green Vegil Foundation	Awareness of Environment	15/7/2015
11	Prof .P. T. Kosankar	YCCE ,Nagpur	Cyber law	16/7/2015
12	Dr. Abha Sargaonkar	NEERI , Nagpur	Mathematical Modelling	16/7/2015
13	Prof. Surendra Gole	Principal NIT , Nagpur	Interpersonal Skills	17/7/2015
14	Mrs. Tejokalyani	LIT ,Nagpur	Solid State Lighting:A Green Technology For Lighting	17/7/2015
15	Dr. V. S. Deshpande	Pro vice Chancellor, RTM, Nagpur	Inaugural function of National Conference	24/7/2014
16	Professor Satyadeo Tripathi	Harishchandra Research Institute, Allahabad	Keynote Speaker in National Conference	24/7/2014

17	Dr. P.P. Murthy	Central University, GGU, Nagpur	Fixed Point Theory	24/7/2014
18	Prof. Vijay Tangde	RTMNU, Nagpur	Isodual mathematics	25/7/2014
19	Shubha Kottombkar	LIT , Nagpur	Relativity	25/7/2014
20	Dr. P. R. Gandhi	RKNEC, Nagpur	Patent filing procedure	5/4/ 2014
21	Dr. Anant Vaywahare	Mohta Science College, nagpur	India's contribution to Mathematics	11/10/2013
22	Gopalvrinda Swami	Akshaypatra Foundation	How to become good human beings	2013
23	Dr. Y. Deshpande	VNIT, Nagpur	Student Psychology	12/1/2013
24	Prof. Dr. G. P. Singh	VNIT, Nagpur	Operations Research	10/2013
25	Dr. G. S. Khadekar	RTMNU, Nagpur	Differential Equations	12/1/2013
26	Dr. R. V. Saraykar	RTMNU, Nagpur	Rational Differential Equ.	11/1/2013
27	Prof. Dr. T. Singh	RKNEC, Nagpur	Hypothesis Testing	11/1/2013
28	Prof. Dr. R. D. Giri	RTMNU, Nagpur	Coding Theory	10/1/2013
29	Prof. V. G. Kondekar	GNIT, Nagpur	Effective Class room Teaching	11/1/2013
30	Dr. M. C. Meshram	LIT , Nagpur	Statistical Methods	10/1/2013
31	Prof. B. R. Chide	RKNEC, Nagpur	Fuzzy sets Fuzzy logic	10/1/2013
32	Ms. Krutika Parate	Manager, Uniglob flight Travel	Passport Procedure Awareness Programme	8/10/2013
33	Mr. Asok Baghul	Police Inspector	Cyber Crime and Public relations with Police	9/10/2014
34	Mr. Yogesh,	Design Manager Nokia, Bengaluru	Art of Time Management	2013
36	Dr. K.W. Deoghare	DMLT, Nagpur	Say no to Drugs and Tobacco	30/8/2012
37	Prof. S.P. Sharma	Institute of Vedic Mathematics, Nagpur	Vedic Mathematics	22/12/2012
38	Mr. H. Choudhari	VNIT, Nagpur	Art of self management	6/10/2011
39	Mr. Chetan Bhagat	Writer	Motivational lecture	5/10/2010

37. State whether the programme/ department is accredited/ graded by other agencies. Give details. : NA

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths:

- 7 Faculty members are Ph.D.and5 are pursuing Ph.D.
- Motivated Faculty who go well with students.
- Conduct value added courses for learning beyond curriculum.
- Faculty members are life members of professional societies which keep faculty update with recent developments.
- Academic autonomy has given right way to improve the subject
- understanding of the students.

Weakness:

- Limited interaction with scientist from research institutions.
- Well-equipped research lab with computer and mathematical software is required.
- Department requires the subscription of the good journals.
- Students forum alike in other streams of engineering is needed to enhance to love for Mathematics.
- Interdisciplinary research activities, involvement with student's projects need serious thought in the curriculum.

Opportunities:

- The research work can be persued with other streams of engineering.
- Offer more number of free elective courses.
- Needed training program to build a skill in handling the different
- Mathematical software.
- Interaction with industry people required to understand their need of Mathematics.

Challenges:

- To maintain students interest in mathematics.
- Keeping R&D activity updates.
- Result improvement.
- To keep faculty abbesses with latest technology

39. Future plans of the department.

- Strengthen Collaborative Activities with Premier Institutions
- Improve Quality of Technical Publications
- Upgrade Faculty Qualifications
- Enhance Interaction with Industry
- Improve Student Participation in National / International events, Competitions, design contests
- Development of faculty expertise in identified thrust areas in focused way
- Submissions of proposals to various funding agencies.
- Organize international Conference, Workshops
- Offer more number of Free elective course
- Student improvement programme

Applied Physics Department

- Name of the Department & its year of establishment:**
 - Department of Applied Physics,
 - Established in 1984
- Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : NA**
- Interdisciplinary courses and departments involved: Nil**
- Annual/ semester/choice based credit system: Semester based credit system: NA**
- Participation of the department in the courses offered by other departments: NIL**
- Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

For Session 2014-15	Sanctioned	Filled
Professor	00	4 (CAS)
Associate Professors	--	1
Asst. Professors	--	1

For Session 2015-16	Sanctioned	Filled
Professor	00	3 (CAS)
Associate Professors	--	1
Asst. Professors	--	2

7. Faculty profile with name, qualification, designation, specialisation (D.Sc./D.Litt./ Ph.D./M.Phil., etc

For the session 2015-16

Name	Qualification	Designation	Specialization	Experience (Years)
Dr. S A Band	M.Sc PhD	Professor	Solid State Physics & Electronics	30
Dr. S A Fadnavis	MSc. PhD, B.Ed	Professor	Solid state Physics & Electrinics	30
Dr. J R Ghulghule	M.Sc PhD	Professor	Solid state Physics and Acoustics	30
Mrs.S S Kolte	MSc.B.Ed	Associate Professor	Solid state Physics & Electronics	29
Dr. H V Ganvir	MSc. PhD	Assistant Professor	Solid state Physics & Communication Engineering	08
Ms.P.Pali	M.Sc., B.Ed	Assistant Professor	Electronics	01

8. Percentage of classes taken by temporary: 16.6 %

9. Programme wise student teacher ratio: NA

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled: NA

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. : Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.:

Nil

13. Research facility / centre with

- state recognition
- national recognition
- international recognition

Department of Physics is approved research center of R.T.M. Nagpur University for pursuing Ph.D. At present the total number of students pursuing Ph.D = 6

14. Publications:

Year	Journal Publications		Conference publications		Total
	International	National	International	National	
2014-2015	05	-	-	-	5
2013-2014	05	01	-	-	6
2012-2013	03	-	01	-	4
2011-2012	05	01	01	-	7
Total	18	02	02	-	22

- Monographs : **Nil**
- Chapter(s) in Books : **Nil**
- Editing Books : **Nil**
- Books with ISBN numbers with details of publishers:

SN	Name OF Author/s	Name of Book	Details (Publisher,ISBNno.Year.
1	Dr. (Mrs) Sheela A. Band Dr (Mrs) Shilpa A. Fadnavis	A Concise Book of Engineering Physics	Das Ganu Prakashan , Nagpur ISBN No :978-93-81660-46-1
2	Dr. Sheela A Band, Dr. Shilpa A Fadnavis	Engineering Physics	Das Ganu Prakashan , Nagpur ISBN No :978-93-81660-58-4
3	Dr. S V Soni	A Text Book of Applied Sciences for BSc ,Course by YCMOU	YCMOU, Nashik 422 222, ISBN No : 978-81-8055-369-1

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) **Nil**
- Citation Index – range / average **Nil**
- SNIP **Nil**
- SJR **Nil**
- Impact factor – range / average **Nil**
- h-index **Nil**

15. Details of patents and income generated : **Nil**

16. Areas of consultancy and income generated : Nil

17. Faculty recharging strategies:

- Permissions & Financial assistance for attending workshops/FDP/Training Programs etc.
- Promotions to higher posts as per availability.
- Faculty Mentor Scheme

18. Student projects NA

- percentage of students who have done in-house projects including inter-departmental
- percentage of students doing projects in collaboration with industries / institutes

19. Awards / recognitions received at the national and international level by Faculty

SN	Name of faculty	Award/Recognition Details	Awarding Organization
1	Dr. S V Soni	Biography of Dr. S V Soni has been Accepted for Publication	In Marquis Who's Who in the world 2014 (31 st edition)
2	Dr. S V Soni	Appointed as a Reviewer for the International Journal of Engineering Research IJER 2013	IJER 2013(ISSN: 2319-6890) www.ijer.in , editor@ijer.in
3	Dr. S V Soni	Presented a paper on Nanoscience and Nanotechnology and its Social Implications and Adjudged the Best Paper in International Conference	International conference On Advances and in Physics and Engineering Mathematics at Shanghai , China
4	Dr. S V Soni	Nominated on Editorial board of Journal of Advances in Material Science and Mechanical Engineering Research Publishes	International Research Publication House

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Year	SN	Event Name	Resource Persons	Source of funding	Organized for	Outstanding Participants
2014-15	1	Diagnostic Tools used in Research in Science and Technology	Prof H.V Ghare Dr.S.V.Mohril Dr.S.S.Bhoga Shri.Shriwastava	YCCE	Faculty under Nagpur University	100
	2	STTP Conducted by Science Dept , YCCE on “ Multidimensional Role of Applied Sciences in National Development	Prof A Swaminathan Dr.A.Kulkarni Dr.J.Pendharkar Dr.K.Singh Mr.K.Chattergi DR.A.Pande Dr.P.Kosankar Dr.D.garway Dr.S.Gole Dr.Tejoykalyani Dr.Khandekar Dr.A.Sargaonkar	Self-Financed	Students and Staff	65

21. Student profile course-wise : NA

22. Diversity of students : NA

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? : NA

24. Student progression : NA

25. Diversity of staff:

Percentage of faculty who are graduates (for current year 2015-16)	
of the same parent university	Nil
from other universities within the State	Nil
from other universities from other States	Nil

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Sr. No.	Name of Faculty	Degree Awarded	Degree Awarding Year
1	Dr.H.V. Ganvir	Ph.D	2013

27. Present details about infrastructural facilities

- Library-NA
- Internet facilities for staff and students: For all faculties
- Total number of class rooms: Total 14 class rooms are available with Science Dept, Three faculty rooms .
- Class rooms with ICT facility: 6 are with ICT facility.
- Students' laboratories: Two laboratory accommodating entire section and one Laser Lab
- Research laboratories = It is in developing stage

28. Number of students of the department getting financial assistance from College. : NA

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. : NA

30. Does the department obtain feedback from faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it? :

1. Faculty on curriculum as well as teaching learning evaluation? If yes, how does the department utilize it?

- Course completion report
- Informal Feedback from faculty
- Discussions in Board of Studies meetings.
- HoDs monthly meeting.

2. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

- Feedback collection process: Feedback is collected by the office of Dean Academic Matters. Once each before MSEs and one before ESE for autonomy programs, once for University programs.
- Percentage of students participating: Around 85 to 90 % percentage of students participated in the feedback process. The feedback is analyzed on computers to assess the teaching capabilities, teachers' habits, usage of technology in the classroom, subject contents and overall satisfaction level of students.
- Corrections required in each teacher's delivery method, improvement in technical contents through usage of technology,

effectiveness of the teacher and finally the grading of teachers on the basis of feedback collected is arrived at through the analysis

- The Feedback Report on teaching learning process are discussed with the teachers by Head of the Department in informal meeting. A special committee consists of the Principal, Dean (Academic Matters) and head of the department interacts with the teachers with score less than the benchmark score to understand the problems and to exhort the teacher to perform better.
- Basis of reward/corrective measures: Teachers with very good score are issued the appreciation letters while those with the low score are advised to introspect for the improvement. They are issued the letters to improve the performance. They are helped by the seniors in the department too. The special training sessions by the qualified third party agency is engaged to help the teacher whenever needed. In case the feedback is very poor and the teacher has shown no significant improvement, then he is asked to leave.
- The extraneous factors, like hard / soft attitude of the instructor are considered.
- The result of the subject taught by the teacher is also considered

3. Alumni and employers on the programmes and what is the response of the department to the same? NA

31. List the distinguished alumni of the department. NA

32. Give details of student enrichment programme (special lectures / workshops / seminar) with external experts)

SN	Event Topic	Expert Details	Date
2014-2015	Goal Setting	Dr Shiny Chibb: DMIMS, Nagpur	9/2/2014
2014-2013	Lighting and Solar Cell	Mrs C P Joshi, Professor RKNEC, Nagpur	10/10/13
2012-2013	1) Work shop on, Role of Media in Adolescence and Say no to Drugs and Tobacco, 2) On How to Get Success on Life	Dr.K.W.Deoghare, Tresurer, Adolescent Health academy Mr. Kunal Deshottar, Director of language ki Duniya, Nagpur	6/9/12 30/01/2013
2011-2012	1) Communication and Learning Skill 2) Spreading Your Wings	Dr. V. Nanoti, Professor PCE , Nagpur Dr Yogesh Deshpande Professor VNIT	30/08/11 27/2/12



Workshop on Diagnostic Tools



Special Lecture on Goal Setting

33. List the teaching methods adopted by the faculty for different programmes.

- Chalk and Board / White Board
- Laboratory /Workshop Practical
- Tutorials & Assignments
- Seminars /Guest Lectures
- OHP (Transparencies)
- Charts and Models
- Use of DTEL Material
- PPT
- Experimental/ Demonstrative Learning
- Assignments

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- **Tutorial Classes**
 - Students to work out the problems/assignments to clear the individual doubts

- **Remedial Teaching**
 - Remedial teaching is made available for students
 - At the end of semester the time table is displayed
 - Difficult & important topics are discussed
 - Individual queries / doubts are solved by teacher time to time
- **Mentoring System**
 - Mentoring System to help students individually
 - Type of Mentoring offered are through Faculty Advisor / Teacher Guardian / Class Teacher

35. Highlight the participation of students and faculty in extension activities. Nil

36. Give details of “beyond syllabus scholarly activities” of the department.

Possibility, motivation and scope for self-learning is already created by virtue of DTEL.

- All the teachers deliver few topics beyond syllabus, which are mentioned in the teaching plan.
- Faculty encourages the students for self-learning while giving assignments, quiz, technical paper writing contests etc.
- 08 marks are allotted in the internal assessment out of 40 marks.
- Learning facilities, and availability of materials for learning beyond syllabus
- Department of Technology Enhanced Learning (DTEL) office is established for the creation of self-learning facility for subjects according to RTMNU and autonomous syllabus.
- VoD^s& VCDs from IIT Kharagpur and NPTEL material are made available to the students for reference.
- E-books are available in campus-wide network.
- Guest Lectures, Interaction with Alumina, visit to research lab, Visiting Professor Scheme, industrial visit.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

Not Applicable.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- Exclusive Departmental Infrastructure
- Well Equipped Laboratories
- Well Qualified, Experienced and Motivated Faculty
- Faculty with average age 36 Years & average experience 14 Years
- 04 faculty members having more than 30 years of service in the department.
- 4 PhD.
- Student centric Teaching Learning Process
- Academic autonomy

Weaknesses

- Insufficient interaction with scientist from research institutions
- Each faculty engaging full load of 16 hrs /week , No tutorials in spite of difficult subject , tight schedule to undertake different activities

Opportunities

- Fast track growth of infrastructure at national and local level.
- Offering free elective

Challenges

- Mushroom growth of engineering institution
- To achieve result > 80 % and to instill morals and ethical values which is devouring
- To keep faculty updated with latest technology

39. Future plans of the department.

- To develop Material Research laboratory in stages
- To launch an elective course for higher classes

Applied Chemistry Department

1. Name of the Department & its year of establishment

- Department of Applied Chemistry
- Established in 1984

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) NA

3. Interdisciplinary courses and departments involved: NIL

4. Annual/ semester/choice based credit system: Semester Based Credit System: NA

5. Participation of the department in the courses offered by other departments

The details are as indicated in the table:

Subject	Department	Semester
Environmental Studies	Chemistry	III & IV

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Post	UG	
	Sanctioned	Filled
Professor	--	3
Associate Professors	--	2
Asst. Professors	--	2
Total	--	7

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Name	Qualification	Designation	Specialization
Dr. (Mrs.) J.V. Miskin	M.Sc.,Ph.D.	Asso. Professor	Organic Chemistry
Dr.A.B.Bhake	M.Sc.,B.Ed.,Ph.D	Professor	Inorganic Chemistry
Dr.(Mrs.) R.A.Patil	M.Sc.,Ph.D.	Professor	Inorganic Chemistry
Dr.P.T.Kosankar	M.Sc.,PGDEE, Ph.D.,LLB	Professor	Organic Chemistry

Name	Qualification	Designation	Specialization
Dr.Mrs.N.M.Limaye	M.Sc.,Ph.D.	Asso. Professor	PhysicalChemistry
Ms.S.S.Panditkar	M.Sc.	Assistant Professor	Organic Chemistry
Ms.Pragati Halmare	M.Sc., Env.Sc.	Assistant Professor	Environmental Science

8. Percentage of classes taken by temporary faculty – programme-wise information: Nil

Year	Name of Programme	% of classes taken by temporary faculty
2014-15	UG First Year B.E	16%
2013-14	UG First year B.E	16%
2012-13	UG First year B.E	8%
2011-12	UG First Year B.E	NIL

9. Programme-wise Student Teacher Ratio: NA

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

	Sanctioned	Filled
Administrative Staff	NIL	NIL
Academic Support Staff (Technical)	-----	4

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. : NIL

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received: NIL

13. Research facility / centre with

- state recognition
- national recognition
- international recognition

Department of Applied Chemistry is approved research center of R.T.M. Nagpur University for pursuing Ph.D.

14. Publications:

- number of papers published in peer reviewed journals (national / international)

Year	Journal Publications		Conference Publications		Total
	International	National	International	National	
2014-15	03	Nil	01	01	05
2013-14	03	Nil	Nil	03	06
2012-13	02	Nil	Nil	01	03
2011-12	01	Nil	01	01	03
Total	09	Nil	02	06	17

- Monographs: **NIL**
- Chapter(s) in Books: **NIL**
- Editing Books: **NIL**
- Books with ISBN numbers with details of publishers: **02**

SN	Name of Author/s	Name of Book	Details (Publisher, DOI, ISBN, Year, Page Nos.
1	Dr.A.B.Bhake	A Text Book on Engineering Chemistry	Das Ganu Publication Year 2008
2	Dr.P.T.Kosankar	Lignin Chemistry	Utakarsh Publication Nagpur Pages 120

Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.): **NIL**

- Citation Index – range / average: **NIL**
- SNIP: **NIL**
- SJR: **NIL**
- Impact factor – range / average: **NIL**
- h-index: **NIL**

15. Details of patents and income generated: **NIL**

16. Areas of consultancy and income generated: **NIL**

17. Faculty recharging strategies:

- **Permissions for pursuing higher studies**

As per the provisions of the policy, 15 days study leave in one semester can be availed for doctoral research related work and thus the faculty is encouraged to achieve higher qualification. Additionally, the academic assignments of such faculty members can be rescheduled to suit the mandatory course work to be done at the place of research.

- **Attending faculty development & training programmes**

Permission and financial assistance given to faculty members as per the policy for attending faculty development programmes or training programmes as per the training needs identified by the department.

- **Permissions & Financial assistance for attending workshops & conferences etc.**

As per policy the financial assistance for paper presentation / attending workshops etc. is given in the form of registration, travelling and incidental expenses.

- **Skill upgradation training for faculty :**

Newly recruited faculty members are deputed for skill upgradation training to specialized organizations.

- **Promotions to higher posts as per availability:**

The faculty members are promoted to higher position after acquisition of higher qualification/ training/expertise under Career Advancement Scheme and Internal Promotion Scheme.

- **Faculty Mentor Scheme**

The junior faculty is assisted for quality teaching for difficult topics by the senior faculty of the department.

18. Student projects: NA

19. Awards / recognitions received at the national and international level by

- Faculty

SN	Name of Faculty	Award/Recognition Details	Awarding Organization
1	Dr.A.B.Bhake	Best Paper Award	International Conference on Biofuel
2	Dr.R.A.Patil	Who's Who	Marquis Who's Who

- Doctoral / post doctoral fellows : NIL

- Students : NIL

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any

Year	S N	Event Name	Resource Persons	Source of funding	Organized for	Outstanding Participants
2014-15	1	FDP on Diagnostic Tools used in Research in Science and Technology	Dr. Bhoga, Physics, PGTD, Nagpur, Mr.H.V.Ghare, Sant Tukdoji Cancer Hospital, Mr. Srivastava, Retd. Scientist, Dr.R.M.Moharil, Retd.Prof. in Physics,PGTD, Nagpur	Yeshwantrao Chavan College of Engineering, Nagpur	Faculty	Nil
2013-14	1	Workshop on Soap and Phenyl Making	Dr.Hema Gedam, Asso. Prof., Chemistry Deptt, LAD, Nagpur	Yeshwantrao Chavan College of Engineering, Nagpur	Rural women in Hingna region	Nil
2012-13	1	NIL	--	--	--	--
2011-12	1	NIL	--	--	--	--

21. Student profile course-wise: NA

22. Diversity of students: NA

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? : NA

24. Student progression: NA

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	5/6=83%
from other universities within the State	1/6=16%
from other universities from other States	NIL

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. : NIL

27. Present details about infrastructural facilities

SN	Infrastructure facility	Details related to Department	Numbers Available
1	College Library	Book Titles	341
		Book Volumes	1484
		Journals (Print + Online)	3
		Magazines & Periodicals	--
		E-Recourses (CD/DVD etc)	2
2	Departmental Library	Book Titles	35
		Project Reports (UG/PG)	NIL
		Any Other	NIL
3	Internet facilities for staff and students in the department	No. of Computers (Staff + Lab)	Computers = 6 Staff=9
		No. of Computers with Internet Facility	6
4	Class Rooms with ICT Facility	No. of Class Rooms with ICT Facility	14/14
5	Student Laboratories	No. of Student Laboratories	02
6	Research Laboratories	No. of Research Laboratories	01

28. Number of students of the department getting financial assistance from College. : NA

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. : NIL

30. Does the department obtain feedback from

1. Faculty on curriculum as well as teaching learning evaluation? If yes, how does the department utilize it?

YES.

By way of:

- Informal Feedback from faculty
- Discussions in Board of Studies meetings
- HoDs monthly meeting

2. Students on staff, curriculum as well as teaching learning evaluation and what is the response of the department to the same?

- The Feedback Report on teaching learning process is discussed with the teachers by Head of the Department in informal meeting. A special committee consists of the Principal, Dean (Academic Matters) and head of the department interacts with the teachers with score less than the benchmark score to understand the problems and to encourage the teacher to perform better.
- Basis of reward/corrective measures: Teachers with very good score are issued the appreciation letters while those with the low score are advised to introspect for the improvement. They are issued the letters to improve the performance. They are helped by the seniors in the department too. The special training sessions by the qualified third party agency is engaged to help the teacher whenever needed. In case the feedback is very poor and the teacher has shown no significant improvement, then he is asked to leave.
- The extraneous factors, like hard / soft attitude of the instructor are considered.
- The result of the subject taught by the teacher is also considered

3. Alumni and employers on the programmes and what is the response of the department to the same? : NA

31. List the distinguished alumni of the department: NA

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

SN	Event Topic	Expert Details	Date
1	Disaster Management and Industrial Safety	Dr.Arun Pawar,GM Fire & Security	3-10-2015
2	Sustainable Development	Mr.Kaustav Chatterjee Head Operation Rev enviro Systems	14-2-2014
3	Nanotechnology : Facts and Myths	Prof.Jatin Bhatt.VNIT	28-2-2013
4	Anemia in aDolscents	Dr.Ujawala Deshmukh.	12-3-2012

33. List the teaching methods adopted by the faculty for different programmes.

- Chalk and Board Lecture based Interactive learning
- Use of Charts
- Power point presentations
- Experimental/Demonstrative learning
- Seminars
- Brain storming session
- Group discussion
- Assignment

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- **Regular feedback**
 - From the teaching faculty during regular meetings by HoD and by conducting interactive sessions with the students
- **Remedial Teaching**
 - Remedial teaching is made available for students
 - At the end of semester the time table is displayed
 - Difficult & important topics are discussed
 - Individual queries / doubts are solved by teacher
- **Mentoring System**
 - Mentoring System to help students individually
 - Type of Mentoring offered are through co-ordinator of First Year and Class Teacher

35. Highlight the participation of students and faculty in extension activities.

Year	SN	Name of Extension Activity	No. of Faculty & Students Involved
2014-15	1	Blood Donation Camp	240
	2	Tree Plantation	---
	3	Helping Poor Child Heart Patient	Students of first year
	4	Traffic Awareness Programme by Janjagruti NGO	Students from all sections of first year

36. Give details of “beyond syllabus scholarly activities” of the department:

Beyond syllabus Value Added Courses/Training Programs etc. (common to department of Applied Physics, Applied Chemistry and Applied Mathematics and Humanities)

- Regular Medical and Dental check up camps
- Motivational lecture on “ How to become good human beings” by Gopalvrinda Swami from Akshaypatra Foundation
- Passport procedure awareness programme by Ms.Kritika Parate, Business Relation manager, Unilogic Flight Travel (Yr. 2013)
- Art of Time Management by Mr. Yogesh, Design Manager ,Nokia, Bengaluru (Yr.2013)
- VOICE club for spreading Art of self management
- Lecture on “Cyber crime and Public relation with police by Insp. Ashok Bagul (Yr. 2014).

Other than this the department of Applied Chemistry holds wall magazine, poster presentation competition, Innovative Ideas competition for students.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details. NA

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strength:

- Well qualified senior staff
- All permanent teaching faculty are doctorate
- Three faculty are recognized research guides
- Computational and internet facilities for individual staff
- Well equipped laboratories

Weakness:

- Lack of publications in good impact factor journals or famous journals
- Lack of student oriented projects due to time constraint
- Industrial experience and exposure of faculty is less
- Revenue generation from the consultancy/testing is almost nil
- Growing lack of scientific temperament amongst the students

Opportunities

- Scope of more number of publications in reputed journals
- Scope for improvement in the research laboratory status
- Frequent visits of faculty to industries to exchange knowledge and understand the needs of the industries
- Hands –on training of different analytical instruments from reputed institutes
- Generating some revenue from testing and consultancy

Challenges

- Decline in the number of students opting for technical courses
- To retain quality of the department in this era of strong competition.
- To design the curriculum as per the industry needs and increase industry-institute interaction
- To do collaborative and interdisciplinary projects / research work with other approved research laboratories
- To take up some live research projects especially in the field of environment


39. Future plans of the department.


- To participate in interdisciplinary projects for students with other technical departments like Civil, Mechanical
- To participate in NSS activities in which science can contribute towards better life of rural population by way of training in preparation of products useful in daily life
- To design the syllabus to cater to the industrial needs.
- To promote research activities by collaborating with research laboratories in our region.

PART-E

ANNEXURE

Annexure I: LOI of College


 NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद (An Autonomous Institution of the University Grants Commission) विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान	
LOI submitted date	11/01/2016
Track id	MHCOGN16359
Edit option given date	
LOI Submitted old date	
1 Process and Cycle	ACCREDITATION, Cycle: 1
2 Institution Name	YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
3 Name of the Head of the Institution	DR.UDAY P. WAGHE
3a Designation	PRINCIPAL
4 Address	HINGNA ROAD, WANADONGRI, NAGPUR - 441 110
City	NAGPUR
State	MAHARASHTRA
Pin code	441110
Phone no.	07104 242620 07104 242919
Mobile no	9764896477 8552963777
Fax	
Email	principal@ycce.edu arbhagatpatil@gmail.com
Website	www.ycce.edu
5 Date of Establishment	29/05/1984
5a Have two batches of students graduated from the college	Yes
6 Is the College recognized under section 2f of UGC act?	Yes
6a Date of Recognition by UGC under 2f	01/05/2007
* Uploaded UGC 2f certificate	2(F) LETTER.PDF



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 Yeshwantrao Chavan
 College of Engineering
 Wanadongri, Hingna Road,
 NAGPUR - 441110

7	Is the College recognized under section 12B of UGC act?	Yes
7a	Date of Recognition by UGC under 12(B)	14/06/2010
	Uploaded UGC 12B certificate	12 (B)_LETTER 2010 2013.PDF
7b	Name of the university to which the college is Affiliated or of which the college is Constituent	THE RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
	State in which affiliating university is located	MAHARASHTRA
	Type Of Affiliation	PERMANENT
	Uploaded Certificate	UNIVERSITY (RTMNU) AFFILIATION LETTERS.PDF
7c	If the institution is not affiliated to a university, does it offer any programmes recognized by any Statutory Professional Regulatory (SPR) Council which is equivalent to a post graduate programme of a university	No
	Name of the Programmes	
	Name of SPR Council recognizing it	
	Equivalent University degree	
8a	Is the institution recognised as an Autonomous College by the UGC?	Yes
	Autonomous Date	18/11/2009
	Uploaded Certificate	AUTONOMY_CONFER_LETTER_UGC.PDF
8b	Is the institution recognised as College with 'Potential for Excellence(CPE)' by the UGC	No
	CPE Date	




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 NAGPUR - 441110

	Uploaded Certificate	
8c	Is the college offering any programmes by any Statutory Regulatory Authority(SRA)?	Yes
	Statutory Regulatory Bodies	AICTE
	Uploaded certificate of recognition by SRA	AICTE APPROVAL LETTERS.PDF
9a	Nature of the college	PRIVATE SELF FINANCING
9b	Number of degrees offered	Certificate: : Diploma: : UG: :9 PG: :12 PG Diploma recognized by statutory authority: : Research: : Others: :




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 NAGPUR - 441110

9c	Details of degrees offered	Arts: :NIL Commerce: :NIL Science: :NIL Education: :NIL Health Sciences: :NIL Engineering and Technology: :BE IN CIVIL ENGINEERING, BE IN MECHANICAL ENGG., BE IN ELECTRONICS ENGG., BE IN ELECTRICAL ENGG. (SHIFT-I,II), BE IN COMPUTER TECHNOLOGY, BE IN ELECTRONICS & TELECOMMUNICATION ENGG.(SHIFT-I,II), BE IN INFORMATION TECHNOLOGY AND M.TECH.IN (ELECTRONICS ENGG.), M.TECH.IN (STRUCTURAL ENGG.), M.TECH.IN (COMPUTER AIDED DESIGN & MANUFACTURE), M.TECH. IN (INTEGRATED POWER SYSTEM), M.TECH. IN (PRODUCTION ENGG.), M.TECH.IN (COMPUTER SCIENCE AND ENGG.,SHIFT-I,II), M.TECH. IN (VLSI DESIGN,SHIFT-I,II), M.TECH.IN (COMMUNICATION ENGINEERING),M.TECH. IN (ENVIRONMENTAL ENGINEERING),M.TECH. IN (INFORMATION TECHNOLOGY) Management: :NIL Others: :NIL
10	Whether Teacher Education / Physical Education department is opting for A&A process separately?	No
11	Total Number of Teaching Staff Non-Teaching Staff Students	301 231 5074
12	Date of establishment of IQAC	
	SSR Uploaded Link	http://ycce.edu/SSR_YCCE_NAGPUR.pdf

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
P. O. Box No. 1075, Nagarbhavi, Bangalore - 560072,
Karnataka, India
Phone: +91-80-26232251



PRINCIPAL
Yeshwant Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

Annexure II- Certificate of Compliance

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Hingna Road, Wanadongri, Nagpur - 441 110
Ph: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu
E-mail : principal@ycce.edu, info@ycce.edu

CERTIFICATE OF COMPLIANCE

This is to certify that Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur-441110 (M.S.) fulfills all norms stipulated by the affiliating University - 'Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur and Regulatory Council/Body - 'University Grant Commission (UGC)' and 'All India Council for Technical Education (AICTE)' and the affiliation and recognition is valid as on 23.11.2015.

In case the affiliation/recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.



Dr. U.P. Waghe
Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110

Place : NAGPUR

Date : 23.11.2015

Annexure III- Declaration by Principal



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

E-mail : principal@ycce.edu, info@ycce.edu

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

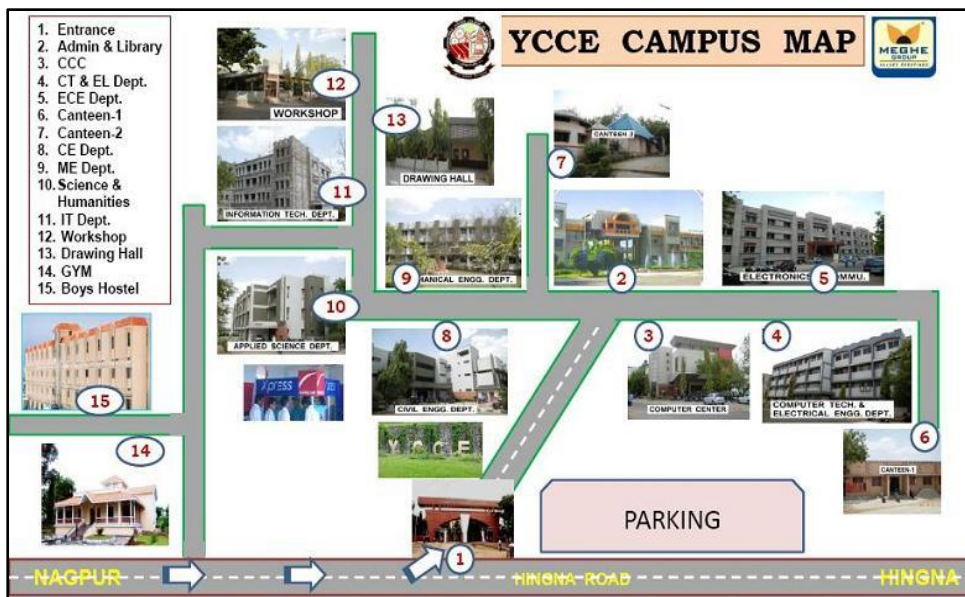
Place : NAGPUR

Date : 23.11.2015

Dr. U.P. Waghe
Principal
PRINCIPAL

Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road,
NAGPUR - 441110





Yeshwantrao Chavan College of Engineering

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Phone: +91-7104-242620, 242919, 329249, 329250, 242623