

Yeshwantrao Chavan College of Engineering

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

Internal Quality Assurance Cell (IQAC)

Annual Quality Assurance Report (AQAR)

2016-17



Submitted 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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Part – A

I. Details of the Institution

1.1 Name of the Institution

Yeshwantrao Chavan College of Engineering, Nagpur

1.2 Address Line 1

Hingna Road, Wanadongri

Address Line 2

NAGPUR-441110

City/Town

NAGPUR

State

MAHARASHTRA

Pin Code

441110

Institution e-mail address

www.ycce.edu

Contact Nos.

07104-237919, 234623

Name of the Head of the Institution:

Dr. Uday P. Waghe

Tel. No. with STD Code:

07104-237919, 234623

Mobile:

9764996477

Name of the IQAC Co-ordinator:

Prof. Arvind R. Bhagat Patil

Mobile:

08552963777

IQAC e-mail address:

dean_pd@ycce.edu,
arbhagatpatil@gmail.com

1.3 NAAC Track ID (For ex. MHCOGN 18879)

MHCOGN16359

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

EC (SC)/17/A&A/98.1 Dated 16 Sept 2016

1.5 Website address:

www.ycce.edu

Web-link of the AQAR:

http://www.ycce.edu/AQAR2016-17.doc

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.25	2016	16/09/2016 to 15/09/2021
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC:

DD/MM/YYYY

06/01/2016

1.8 AQAR for the year (for example 2010-11)

2016-2017

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

i. AQAR 2016-17 submitted to NAAC on 29-09-2017

ii. AQAR _____ (DD/MM/YYYY)

iii. AQAR _____ (DD/MM/YYYY)

iv. AQAR _____ (DD/MM/YYYY)

1.10 Institutional Status

University

State Central Deemed Private

Affiliated College

Yes No

Constituent College

Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*)

**Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur**

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme UGC-CE

UGC-Special Assistance Programme DST-FIST

UGC-Innovative PG programmes Any other (*Specify*)

UGC-COP Programmes

2.IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="06"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="03"/>
2.3 No. of students	<input type="text" value="01"/>
2.4 No. of Management representatives	<input type="text" value="01"/>
2.5 No. of Alumni	<input type="text" value="01"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="--"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="02"/>
2.8 No. of other External Experts	<input type="text" value="--"/>
2.9 Total No. of members	<input type="text" value="16"/>
2.10 No. of IQAC meetings held :	03

2.11 No. of meetings with various stakeholders:	No.	<input type="text" value="01"/>	Faculty	<input type="text" value="01"/>
	Non-Teaching Staff	<input type="text" value="01"/>	Students	<input type="text" value="01"/>
	Alumni	<input type="text" value="01"/>	Others	<input type="text" value=""/>

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.	<input type="text" value="14"/>	International	<input type="text" value="2"/>	National	<input type="text" value="1"/>	State	<input type="text" value="1"/>	Institution Level	<input type="text" value="10"/>
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(ii) Themes:

Pratikruti: 2017 – National level UG project competition	22/03/2017
SPANDAN-2017, a National Conference on Advances in Engineering, Technology and Applied Sciences by EL Dept.	24- 5/03/2017
A Silver Jubilee Alumni Meet (YCCE) 1987-91 batch “Reunion 1987-91”	26/11/ 2016
Vidarbha level Techno-Cultural event ANTAHEEN-16, by CE Dept.	16/08/2016
National Level Tech Fest “ICON 16.0” by EE Dept	16-17/08/2016
COMPUFEST 2016, National Technical Fest by CT Dept.	16-17/08/2016
National Level Technical Fest:“iTechRoots 7.0” by IT Dept.	14-15/08/2016
R & D Cell	
One week Workshop on Research Methodology	20-24/06/2017
STTP on Quantitative Methods of Computer Applications	27/06/2017 - 01/07/2017
CT	
Stress Management in association with Rotary club	16/02/2016
Computer awareness among rural area students	01/03/2017
Digitization of Gram sabha	23/04/2016
FDP on “Statistics for Data Analysis and its Industrial Approach-2016”, in association with TCS as knowledge partner.	30/08/2017 to 3/09/2017.
Workshop Research Methodology	08-09/07/2016
Workshop on Latex	15-16/07/ 2016
CE	
Workshop by Er. Vaibhav Mehta on “Smart City Development by Smarter Structures”	07/10/2016
Workshop by Dr. Suresh Chari on “Challenges Ahead in Leadership”	11/02/2017
Workshop on "Creating Entrepreneurship Minds"	15/03/2017
GL: Smart City Development by Smarter Structures By Er. Vaibhav Mehta Jr. Scientist CSIR-NEERI	07/10/2016
Workshop on Refrigeration & Air Conditioning by Er. Sanjay Tatwawadi, Er. Shashank Dongarwar, ISHRAE	02/09/2016
GL: CAD/CAM-Solid works, Er. Pranav Joshi, DESSAUALT System, Pune	03/10/2016
GL: Personality Development, Management & Goal Settings by Mr. Raksh Palkhe Trainer/ Motivater	30/08/2016
GL: Airport Pavement Evaluation and Maintenance by Mr. Havard Farstad Managing Director of Via Tech (Norwegian world class company in Mechatronics)	04/03/2017
EE	
Workshop on Aptitude Development (“WAD 17”)	11/03/2017
Creativity and innovations in Engineering by Dr. Sumant Tekade Professor & Corporate Trainer S. B. Jain Inst. of Management	05/09/2016
Workshop on Arduino	16-17/08/2016
Workshop on VLSI Design using Cadence Tools by Mr.Srikar Talla, EntupleTech. Pvt. Ltd, Banglore. 20 participants were participated for workshop.	08-12/08/2016
Workshop on Arduino in association with Wing Infotech Excellence	02-03/05/2017
STTP Emerging Trends in wireless Communication & Networking	20-25/02/2017
GL: Career options after post-graduation: Defining the classic dimensions of career Options in Research & Entrepreneurship, Dr. R. B. Deshmukh ,Professor, VNIT, Nagpur	31/08/2016
GL: Electronics-Past ,present & future by Dr. N. C. Shivprakash, Professor, IIScBanglore	03/09/2016
GL: Defining the Classic dimension of career and research and entrepreneurship by Mr.Vijay Phansikar, Editor, Hitvada, Nagpur	08/09/2016
GL: Recent development in Wireless and mobile communication by Dr.Khan Chairperson, Comp. Sci. Department, Kent State University, Ohio, USA	26/09/2016
Opportunities for Higher Education in US by Er. Sumit Pande,Software Developer,	24/12/2016

Microsoft	
Electronics structure & band Element of 9,10-Phenanthrenequinone Passivated silicon surface by Dr. Sushobhan Avasti, Professor IISc Bangalore	23/02/2017
GL: New era of Gallium Nitride is waiting for budding scientists by Dr. Shriniwasan Raghawan, Professor IISc Bangalore	23/02/2017
GL: Build the skills, framework and knowledge in entrepreneurship and new venture creation in order to acquire the knowledge and spirit for venturing by Er. Vishram Jamdar, Professor & Chairman, VNIT, Nagpur	02/03/2017
IT	
Seminar by Vinayak Gavankar, Executive Director ISD Training Centre, Nagpur	03/20/2017
Workshop on Android App Development	17-19/02/2017
GL: Value Added courses by Mr. Nikhil Agarwal, Manager ETC & Software ADCC, Academi Pvt. Ltd. Nagpur	22/09/2016
GL: Mainframe Processing and financial domain in IT” by Ms. Neha Pande Formal Software Developer, Capgmini	22/07/2016
GL: Advanced trends in IT by Mr. Chetan Unadkat Senior Developer, TCS	02/08/2016
GL: Changing Scenario of IT with its personal Experience by Ms. Divya Sharma Newgen Software Technologies, Noida	19/08/2016
GL: Application of Formal Techniques in Software Testing by Dr. Sujit Kumar Chakrabarti Assistant Professor, IIIT, Bangalore.	22/07/2016
Workshop on Pattern Recognition – by Dr. U.V.Kulkarni, Professor, Electronics Department, SGGSC, Nanded	29/7/2016
Workshop on Aptitude Development (WAD 2016) – by Mr. Hitesh Dewani, HR Mentor, Nagpur	12-13/08/ 2016
workshop on “Project Development with Java”- by Mr. Anup Pardhi, Tech Coordinator: IT-NetworkZ Info systems Pvt. Ltd,	21/09/ 2016
SDP on “Introduction to Business Intelligence” Experts from Infocepts Nagpur	15-16/12/ 2016
Workshop on “Text editing using Latex”, Prof. P.Jaiswal, Prof. A. Naik	23-24/01/ 2017
Workshop on “Android App Development”, Deepak Dhote, Anup Pardhi – IT Networkz, Nagpur,	17-19/02/ 2017
Orientation Program on “Internship at Overseas”, Valrie Grant, Managing Director, Geo Tech Vision, Jamaica	30/01/2017
Seminar on “Various applications of advanced Technologies in IT Field” by Mr. Amit Pande, Persistent System. Pvt Ltd, Nagpur	15/03/17
Guest Lecture on “Human Computer Interaction” by Dr. U. Sharawankar, GHRCE, Nagpur	31/12/2016
Guest Lecture on “Design of Database Fragmentation and allocation of fragment” by Mr.Dilip Borkar, RCOEM, Nagpur	06/01/2017
A Two days workshop on “MATLAB R2016a (9.0)	1-2 /08/2016
STTP on Exposure to research areas in the field of Natural Language Processing	14-19/11/2016
ME	
STTP on Modeling & Simulation Optimization Dr. J. P. Giri	13-17/09/2016
Opportunities for Women Engineers by Mrunalini Shingne HR Manager, Tech. Mahindra, Nagpur	08/03/2017
EL	
Environmental Studies	01/07/2016 to 22/10/2016
English Made Easy	13/12/2016 to 01/04/2017
Programming Language	01/07/2016 to 22/10/2016
Communication Skill in corporate by Mr. Akhilesh Joshi Employee in Persistent, Nagpur.	30/01/2017
ETC	
GL: Real Time Applications of Wireless Sensor Network (Design Issues & challenges) by Dr. G. M. Asutkar, Professor & HOD, PIET Nagpur	14/10/2016
STTP Emerging Trends in wireless Communication & Networking	20-25/02/2017
First Year Dept.	
Guest Lecture on ENTREPRENEURSHIP by Mr Hemant Lodha, President,	13/02/2017

Environment Division, SMSIL, Nagpur	
Guest Lecture on 'Understanding physical world in Mathematical formulations, Dr. (Mrs.) Aabha Sargaonkar Principal Scientist, NEERI, Nagpur.	17/03/2017
Guest Lecture on Mind Programming by Mr. Vinayak Gavankar, Executive Director ISD Training Centre , Nagpur	30/03/2017

2.14 Significant Activities and contributions made by IQAC

- ✓ Induction and Orientation programs for the faculty members at the beginning of the academic session
- ✓ Induction/Orientation program conducted for First year students
- ✓ NBA Accreditation of 4 UG Programs Civil Engg., Mechanical Engg., Electrical Engg. & Electronics & Telecommunication Engg. for three years valid from 2017-18 to 2019-20.
- ✓ MoU with reputed academic institutes and industries
- ✓ TiE Nagpur & Meghe group of Institutions (MGI) recently signed a MoU on 9th Sep'16 to conduct the year long collaborative activities related with Entrepreneurship at the Engineering Institutions of MGI Under "TiE Campuspreneur 2.0".
- ✓ Academic Audit: Departmental Level Assessment (DLA:2016-17)
- ✓ Implementation of MGI Group Level Quality Enhancement Initiatives: AWL, PQAI, DLA, VPS, PG Mentors, Industry Co-guides
- ✓ Interaction of the management with the Faculty, Support Staff & Students
- ✓ Internal Audit of Autonomy conducted
- ✓ Sensitizing faculty members about Intellectual Property Rights
- ✓ Implementation of Best Practice at Institute and Departmental Level
- ✓ Implementation of Innovative Practices in Teaching Learning by Faculty members
- ✓ Ensuring Quality of Faculty & Student Publications through Annual Workload (AWL) Plan
- ✓ Submission of research proposals to various govt. funding schemes as well as MGI Minor/Major Project funding scheme
- ✓ Faculty members are encouraged to attend FDP's and STTPS
- ✓ Skill development Training programs for non-teaching staff
- ✓ Increased usage of ICT in TLP and Improved ICT facilities
- ✓ Introduction of new laboratories and course modules in some Departments
- ✓ Lab Equipment up-gradation to meet the advanced technology requirements
- ✓ Collaboration with industries for academic activities and inviting leading companies for the campus recruitment drives
- ✓ Value Added Program for students to improve their technical acquaintance
- ✓ Skill Development training programmes are conducted
- ✓ CRT for preparing students as per the requirements of the company
- ✓ Industrial visits and tours for students
- ✓ Students participation in the Cultural, Sports / NSS activities etc.
- ✓ Extension & Social Responsibility Activities by the various DQAC's & Student Forums.
- ✓ Sensitizing faculty members about Intellectual Property Rights

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Outcomes of IQAC Annual Action Plan (2016-17)	
Quality Assurance Initiatives	NBA Accreditation of 4 UG Programs for 3 Years
	Department Level Assessment of all the departments is carried out.
	Perspective Plans by HoD's for the Departments is presented.
	Interaction of the management with the Students is held.
	Implementation of Group Level Quality Enhancement Initiatives (VPS, TiE, Killer Subject, Mentor-Mentee Scheme, PQAI, PG Mentors, Industry Co-guides etc.) implemented by the departments
Student Development	778 Students Placed in MNC's through Campus Placement
	102 Students Qualified in Competitive Exams, GATE, CAT, etc.
	Rs. 33.43 Lac Financial Support to 57 Students by institution
	08 Professional Society Student Chapters in the Departments
Faculty Development	191 Faculty Members Attended Conferences/Symposia/FDP. 167 Faculty members are provided financial support for attending FDP/Workshops/Conferences etc.
	321+47 Papers are published by Faculty Members in Conf. & Journals.
	65 Faculty Members Served as Experts, Resource Persons
	Books Published : 02, Book Chapters Published : 02,
	15 PhD Faculty members are added in the institution. Total PhD Faculty: 63
Innovative Methods & Best Practices	Departments are practicing various innovative methods in T-L
	Institute Best Practice: Online Exam. for Teacher Assessment
	DQAC's are also implementing various Best Practices
Infrastructure & Resource Development	Increase in infrastructure facility: Class Rooms Added: 03, Major Equipment (> Rs. 1Lac) Purchased: 23 No. of Computers Added: 103
	Electronic Question Bank for all First Year Courses
	Text Books Added: 3869, e-Journals Added: 609
Institute-Industry Interaction	Involvement of Industry/Industry Experts in development activities (Co-guides for UG/PG Projects, Resource Person for FDP/STTP, CDW, and Industrial Tours/Visits etc.)
	Semester Long Duration Industry Internship for IT Students
	Industry Aligned Course by InfoCepts Pvt. Ltd.
	Industry Academia Conclave - 2017 (Alumni Interaction) " Strengthening Strategies for Industry Academia Interface"
R & D Activities	International Conference: 02
	National Conference: 01
	Funded Major Projects: 08 (On-going) Rs. 174.44 Lac, 31 (Submitted) Rs. 2209.83 Lac
	47.94 Lakh Revenue is generated through consultancy.
	Increase in Research Centre Admission Intake
Initiatives for Eco-Friendly Campus	Installation of Solar Energy System: 2 Building Roofs
	Tree Plantation in the campus
	Automation of Academic Processes (TV Displays, MIS, Student Attendance Through SMS etc.)

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* Attach the Academic Calendar (2016-17) of the year as Annexure. **See Annexure- 1**

2.16 Whether the AQAR was placed in statutory body

Yes

No

Management

Syndicate

Any other body

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	10	NIL	10	NIL
PG	12	NIL	12	NIL
UG	10	NIL	10	NIL
PG Diploma	NIL	NIL		
Advanced Diploma	NIL	NIL		
Diploma	NIL	NIL		
Certificate	NIL	NIL		
Others	NIL	NIL		
Total	32	NIL	32	NIL
Interdisciplinary	NIL	NIL	NIL	NIL
Innovative	NIL	NIL	NIL	NIL

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

- Revision of SoE after every four years.
- 20% revision of syllabus is permitted through the BoS
- Offers Professional Elective Courses from 5th Semester onwards
- Each department offers 1-2 Open Elective Courses for other department students.
- Industry Aligned Professional Elective Courses are also offered
- Choice based system is implemented in all the UG & PG programs through professional and open elective courses options.

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	10+12+10 For UG & PG Programs odd & even semester end semester exams. For PhD six monthly progress seminars & report submission.
Trimester	
Annual	

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

Please provide an analysis of the feedback in the Annexure **See Annexure II*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- The major revisions of curriculum is carried out once in every four years and up to 20% minor changes are done every year as per the requirements of the programs offered by the departments.
- The revision of syllabus is initiated by the BoS in the respective disciplines through the Curriculum development workshop based on feedbacks received from the Stakeholders and course completion reports submitted by the course teachers at the end of each semester.
- Industry Aligned Professional Elective Courses are added by the departments in UG programs.
- More options in the professional elective courses are provided.
- New text books and reference books are included in the syllabi.
- General Engineering BoS introduced new open electives for the students of various engineering disciplines.
- Around 450 courses (core + elective) are offered to the UG and PG students across all the engineering disciplines.
- Around 73% of courses having focus on employability/ Entrepreneurship / skill development are offered during the year.
- The revisions are submitted to the BoS and the Academic Council for the approval.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

NO

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	291	212	49	30	

2.2 No. of permanent faculty with Ph.D.	63
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2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	55	00	02	00	01	00	00	00	58	00

2.4 No. of Guest and Visiting faculty	Temporary faculty	06
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	43	52	58
Presented papers	71	18	00
Resource Persons	17	02	34

2.6 Innovative processes adopted by the institution in Teaching and Learning:

The entire processes of the institute are learner centric and the end outcome of every process is evaluated. The institute has adopted innovative teaching and learning process as its differentiators which makes the classroom teaching as well as practical performing very much captivating and interesting for the students. The following are some of prominent innovative methods practiced by the teachers during 2016-17.

- Flipped Classroom
- Open Book Test
- Internships/Industrial Visits
- Chart/Collage Making
- Help Desk
- Presentation by students on Selected Topics
- Assignment based on papers in quality Journal
- Demonstration using Models and Simulations
- Article Reviews,
- Peer/Shadow Teaching
- Concept Maps
- Self-Video Lecture

Every faculty of the institution uses one or the other Student-centric methods and lot of E-content are developed. IQAC and Academic Audit keeps track on the Student-centric methods followed by each faculty. All these unique methods are successful and evident through the students' feedback

2.7 Total No. of actual teaching days during this academic year

77+76=153

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple-Choice Questions)

Continuous internal assessment is done through conducting various mid-semester tests from time to time as per the academic calendar. Two mid semester exams for each theory course, one online test for Teachers Assessment marks for each course are conducted in each semester for B.E. and M. Tech Programs.

The continuous evaluation of practical course is carried out every week. Seminars, quizzes etc. activities are also conducted. The test marks of the student are uploaded in database software and can be viewed by students. For the final year project evaluation rubric based standard operating procedure is followed by every department. It starts with the title selection seminar, synopsis submission, periodic progress seminars and demonstrations, thesis evaluation, internal viva voce and external examinations.

- The showing the evaluated answer script to the student before declaration of the result and challenge the evaluation system are the measures taken as a part of the transparency in the evaluation system.
- All the examinations are conducted with strict adherence to the Institute academic calendar and timely publication of results.
- Question papers are thoroughly moderated to ensure the standard, coverage of the syllabus and mapping of COs as per BLOOMS taxonomy.
- Grievances Cell is operational to address the grievances of students related to exams. & evaluation.
- Multiple choice question provisions are made available for online exams for the teachers assessment marks.
- Open book exams are conducted by some teachers in class test exams.

Percentage of student complaints/grievances about evaluation in the examinations during the year is 4.54%

2.9 No. of faculty members involved in curriculum restructuring /revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop: **285**

285

2.10 Average percentage of attendance of students

83.63%

2.11 Course/Programme wise distribution of pass percentage :

Program wise Distribution of Pass Percentage					
UG : B.E. Final Year Result (2016-2017)					
Title of the Programme	Total no. of students appeared	Division			
		Distinction %	I %	II %	Pass %
B.E. Civil	200	34.08	64.80	1.12	89.50
B.E. Mechanical	217	35.45	64.02	0.53	87.10
B.E. Electrical	201	28.81	70.62	0.56	88.06
B.E. Electronics	139	35.43	63.78	0.79	91.37
B.E. ETC	211	35.14	63.78	1.08	87.68
B.E. Comp. Tech	142	21.60	72.00	6.40	88.03
B.E. Info. Tech.	76	34.29	65.71	0.00	92.11

PG: M. Tech. Final Year Result (2016-2017)					
Title of the Programme	Total no. of students appeared	Division			
		Distinction %	I %	II %	Pass %
M.Tech. (CAD/CAM)	11	100.00	0.00	0.00	100.00
M.Tech. (Communication)	21	100.00	0.00	0.00	100.00
M.Tech (CSE-Shift-I+II)	33	84.85	15.15	0.00	100.00
M.Tech (Electronics)	28	100.00	0.00	0.00	100.00
M.Tech.(Env)	7	100.00	0.00	0.00	100.00
M.Tech. (IT)	4	100.00	0.00	0.00	100.00
M.Tech. (IPS)	16	93.75	6.25	0.00	100.00
M.Tech. (Production)	12	83.33	16.67	0.00	100.00
M.Tech. (Structural)	25	100.00	0.00	0.00	100.00
M.Tech. (VLSI Design Shift-I+II)	33	93.94	6.06	0.00	100.00

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

The Institute's existing policies on academic and administrative systems are in respect of the process of teaching-learning and evaluation system, academic performance, faculty recruitment and training/qualification enhancement, are initiatives of IQAC. IQAC significantly contributes in assessing the Teaching & Learning processes through monitoring and conducting periodic audits and collecting and analyzing the feedbacks.

- Teaching Plans/Handouts by teachers
- Planning of course delivery as per teaching plan and academic calendar
- Ensuring the availability of Teaching-Learning Material on Departmental Websites/Moodles
- Ensuring adoption of student centric and innovative practices by faculty in T-L
- Encouraging the usage of ICT in teaching and learning
- Periodic feedback of class engagement data & syllabus coverage through monthly Principal Meetings
- Class engagement monitoring through appointed persons
- Timely & effective syllabus completion as per the academic calendar.
- Ensuring remedial classes for needy students
- Extra classes for the slow learners and lateral entry diploma students
- Timely completion of evaluation of answer papers of MSE & ESE and declaration of results
- Effective implementation of Mentor-Mentee Scheme: Faculty Advisor
- Periodic review of examination related grievances and automation of most of the examination processes through IT integration.
- Review of teaching learning students feedback & ensuring the corrective measures
- Interaction with the teachers with low student feedbacks
- Encouraging the faculty members to attend the FDP in their thrust areas and also organizing FDP and workshops for the faculty members
- Encouraging the departments for inviting the Guest Lectures of industry experts and academicians

2.13 Initiatives undertaken towards faculty development:

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	05
UGC – Faculty Improvement Programme	15
HRD programmes	18
Orientation programmes	16
Faculty exchange programme	00
Staff training conducted by the university	07
Staff training conducted by other institutions	59
Summer / Winter schools, Workshops, etc.	85

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	103	01	03	53
Technical Staff	65	04	03	26

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

Financial assistance is provided for faculty members to attend the conference in India & Abroad
Encourage faculty to Organize and attend the workshops/STTPs/ seminars/ Guest Lectures in there thrust area.
Faculty member of the college are allowed to pursue Part-Time PhD.
Encourage the faculty to publish good quality research papers
Encourage submission of research projects to funding agencies like AICTE, DBT, DST, BRNS etc.
In-house minor/major project funding schemes of the institute
Interaction with external experts for research proposal and collaborative research work is encouraged.
Research Portal for promoting research
Consultancy- Energy Audit (Electrical Dept.), Municipal Corporation Consultancy (Civil Engg.),
Bank & Software Consultancy (IT Dept.)
M. Tech. and B.E. students are encouraged to pursue projects based on research outcomes published in referred journals and conferences.
M. Tech. & PhD students are encouraged to publish their research in indexed journals only.
R&D cell creates awareness about the importance and role of IP Rights. It also facilitates the training of faculty members, staff and students regarding IPRs.
The cell provides administrative, technical and legal support to faculty, staff and students for drafting and filling their patents
The cell also helps the faculty members for getting copyrights to their work
The seed money is provided to faculty members for carrying out his/her research.

1. Awareness about Research Methodology

A one week programme was organized in June 2017 to make newly selected faculty aware about research, this includes information about funding schemes, abstract and paper writing, Objective framing, concept notes of research etc.

2. Awareness about Quantitative Methods of Computer Applications

A one week programme was organized in June 2017 to make newly selected faculty aware about various techniques adopted in data creation and analysis.

3. New in-house funding schemes

The R&D Cell launched schemes for in-house funding which include:

- i) Inhouse Minor Project scheme
- ii) Innovative UG/PG project scheme
- iii) Innovative Minor patentable product scheme
- iv) Innovative experimental setup development scheme

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	08	Nil	31
Outlay in Rs. Lakhs	2.50	174.44	0.00	2209.83

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	2	6	11
Outlay in Rs. Lakhs	0.00	1.80	2.13	40.97

3.4 Details on research publications

	International	National	Others
Peer Review Journals	47	0	0
Non-Peer Review Journals	47	1	0
e-Journals	36	1	0
Conference proceedings	184	16	0

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organizations

Research funds sanctioned and received from various agencies, industry and other organisations				
Nature of the Project (2016-17)	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects	3 Yrs	AICTE(SPDP)	22.30 Lakh	11.15 Lakh
Minor Projects				
Interdisciplinary Projects				
Industry sponsored Projects				
Projects sponsored by the University/ College	One and Half Years	In-house Minor Research and Product Development (8 Projects)	4.06 Lakh	3.26 Lakh
	1 Yr	Innovative UG / PG Projects (15 projects)	3.23 Lakh	3.23 Lakh
	1 Yr	Funds for UG/PG Projects (69 Projects)	13.10 Lakh	13.10 Lakh
Students Research Projects (other than compulsory by the College)				
International Projects				
Any other(Specify)				
Total			42.69 Lakh	30.74 Lakh

3.7 No. of books published i) With ISBN No.

Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from: Not Applicable

UGC-SAP

CAS

DST-FIST

DPE

DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme
 INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

Appx. 47.94 Lakhs

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	02	01	--	--	--
Sponsoring agencies	MGI, MUN	YCCE			

3.12 No. of faculty served as experts, chairpersons or resource persons

53

3.13 No. of collaborations

International

National

Any other

2

3.14 No. of linkages created during this year

1

3.15 Total budget for research for current year in lakhs :

From Funding agency

29.58 Lakh

From Management of University/College

23.86 Lakh

Total

53.45 Lakh

3.16 No. of patents received this

Type of Patent		Number
National	Applied	06
	Granted	--
International	Applied	--
	Granted	--
Commercialised	Applied	--
	Granted	--

year

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
04	--	02	--	02	--	--

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

29

77

3.19 No. of Ph.D. awarded by faculty from the Institution

17

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones): **NIL**

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events: **4015**

University level State level
National level International level

3.22 No. of students participated in NCC events: **05**

University level State level
National level International level

3.23 No. of Awards won in NSS: **02**

University level State level
National level International level

3.24 No. of Awards won in NCC: **NIL**

University level State level
National level International level

3.25 No. of Extension activities organized: 26

University forum College forum
NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Computer awareness among rural area students of Adegaon village
- Digitization of Gram sabha for Adegaon village panchayat
- Ek Mutthi Anaj in association with rotary club
- Books and Grocery Donation Camp on 04th Aug 2016
- Cloth Donation Camp on 17 – 22 Oct 2016
- Blood Donation Camp In Association with Rainbow Blood Bank
- Book Donation Camp under Mission Education (Junewani Village)
- Blood donation camp
- Swachha Bharat Abhiyan
- Essay competition (Digital india, Make in india, smart city)
- Blood Donation Camp (Aayush Blood Bank)
- Cloth Donation Camp
- Dr. Shantala Bhole, MBBS, DGO and Gynecologist (Udaan NGO) - Common problems in girls and Health Education
- Dr. Rohini Patil, Obstetrician & Gynecologist (MBBS, MD), Nagpur. (Snehanchal NGO) - Awareness about Cervical and Breast Cancer
- Ms. Vailshali Kelkar - Awareness about Sexual Harassment
- Visit to Sanjivani Vriddhashram
- Nirmalya Sankalan by students at Futala during Ganesh Visarjan
- Tree Plantation
- Educating the underprivileged children in slum areas
- Mock Parliament
- Women's Day Celebrations

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

4.1.2 Details of augmentation in infrastructure facilities during the year			
Facilities	Existing	Newly added	Total
Campus area	14 Acres	Nil	14 Acres
Class rooms	58	03	61
Laboratories	97	Nil	97
Seminar Halls	07	Nil	07
Classrooms with LCD facilities	24	Nil	24
Classrooms with Wi-Fi/ LAN	24	Nil	24
Seminar halls with ICT facilities	07	Nil	07
Video Centre	00	Nil	00
No. of important equipment's purchased (\geq 1-0 lakh) during the current year.		23	
Value of the equipment purchased during the year (Rs. in Lakhs)	2092.30 L	240.04 L	2332.34 L

4.2 Computerization of administration and library

Computerization of administration:

- Administration is supported with MIS software developed by MasterSoft ERP Solutions, Nagpur for admission processes, examination processes, purchase and maintenance, & Tally ERP 9.0 software is used for financial purposes.
- Staff attendance and Leave Monitoring is taken care by MasterSoft ERP Solutions
- Training and Placement cell conducts online tests.
- Online tests based on multiple choice questions are conducted for Teacher Assessment (TA) 04 internal marks.
- Campus is under CCTV Surveillance.

Computerization of library:

- Library is fully automated and using Libsys 7.0 Library management software. . It consists of modules on acquisition, cataloguing, circulation, serials and OPAC.
- Digital Library:** Central Library has a provision of access to e-journals like IEEE, ASME, & EBSCO, NPTEL video lectures, DELNET, DTEL Material & Question Papers for UG & PG programmes. For this purpose a Digital Library is equipped with 40 computers for accessing various e-resources. The students & staff can access, download, print the open access journals & research papers, also they can listen to the video lectures with the help of audio-visual aids. E-generals are available in Library and 609 new e-journals are added.
- OPAC System is made available** to locate books available in the library.

4.3 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	82558	27616716.43	3869	2054631.49	86427	29671347.92
Reference Books	12501	7211831.43	287	167359.51	12788	7379190.94
e-Books	9765	856157.00	---	---	9765	856157.00
Print Journals	179	2789191.35	180	241818.00	180	3031009.35
e-Journals	2952	12781289.00	609	3728029.00	609	16509318.00
CD & Video	1300	859687.24	---	---	1300	859687.24
Weeding (Hard & Soft)	4333	602337.87	--	--	4333	602337.87

Technology up gradation (overall)

2016-17									
Technology Upgradation (overall)									
	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MBPS)	Others
Existing	1809	42	30	65	80	115	1519	40 Mbps	
Added	103	--	04	30	--		69	--	
Total	1912	42	34	95	80	115	1588	40 Mbps	

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Well established campus wide network is available for access to internet and computing requirements.
- Entire Campus is Wi-Fi enabled including hostels.
- Central Computing Centre is available for students for internet access
- Internet access to Staff and Students is provided in the departments.
- Every department is having their own computing centers for their computing requirements
- Video Conferencing facilities available.
- Online Aptitude Tests are conducted for student's placement drives.
- Training is given to the teachers and staff to use Management Information System (MIS) ERP software.
- In-House training is imparted to non-teaching staff for skill up-gradation.
- Desktops, Laptops and printers are available in all administrative cabins, HoDs room, faculty rooms etc.
- ME Department is running MOOCs online course with IITB for Engineering Thermodynamics

4.6 Amount spent on maintenance in lakhs: **1453.27**

i) ICT	--
ii) Campus Infrastructure and facilities	1453.27
iii) Equipment's	--
iv) Others	---
Total :	1453.27

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- During Student Induction Program details about Student Support Services are briefed by authorities
- The institute information brochure provides information about Student Support Services, the faculty, departments, activities conducted, various cells at the institute which helps the new students to get acquainted with the institute and its working system
- Through TV Displays installed at prominent places centrally as well as in the respective department
- Class Teachers/ Faculty Advisors also guide students about Student Support Services
- Through Students forums awareness about Student Support Services is made
- Student's representatives in IQAC have enhanced the awareness about Support Services to them
- Student's participation in various statutory bodies makes them aware about support services.
- Providing information on various support services during parents meet at the Department Level.
- Dissemination of Information on college website.
- Training and Placement Department imparts information to the students regarding the placements and prepare them to appear for interviews.
- Information to the students regarding college facilities such as Central library, Mess, Boys and Girls hostel etc. is provided.
- The undertaking of Anti ragging Affidavit is taken from students.
- Student counseling is provided at various levels – at department level Faculty Advisor, Class Teachers, IRO Cell and psychological Counselor to guide students.
- Grievance redressal cell is active.
- Every department conducts an induction programme for second year students where the information about the department is provided.
- Every department has student society through which senior students conduct programs for junior students.
- SMS facility is also used to inform notices to students and parents.

5.2 Efforts made by the institution for tracking the progression

- Monitoring and continuous evaluation of performance of students.
- Mentoring and Counseling sessions through Faculty advisor: Maintain personal details, academic performance of students
- Class Teacher: Attendance & Academic Progression, Participation & awards own in the events
- MIS has provision to monitor student progression- Attendance, MSE marks, Continuous Assessment Marks (MSPA's), TA.
- T & P Cell maintains performance details: Campus Placement Data, Higher Studies, Entrepreneur data
- Student Activity In-charge: Maintains student's participation in extension activities, NSS, Cultural Events
- Sport Activity In-charge: Maintains student's participation data related to sports activities
- The institute has registered alumni association. Alumni meets are organized every year. Also facility for on-line registration of alumni on institute website is provided. This helps to track the progression of students after passing out from the college.
- The institute conducts online student feedback twice every semester to improve teaching, infrastructure and the entire learning experience of the students. The student feedback is a source of information to measure the satisfaction level of the student.

- Parents Teacher meeting is conducted once in a semester to discuss the progress of their wards.
- Yoga sessions are conducted in the college for physical wellbeing of students.
- Creating avenues for students to develop and enhance their skills in terms of organizing events and participation in various events.

5.3 (a) Total Number of students

UG	PG	Total
4751	308	5059

(b) No. of students outside the state

116

(c) No. of international students

NIL

	Last Year 2015-16						This Year 2016-17					
	General	SC	ST	OBC, VJ, NT, SBC	Physically Challenged	Total	General	SC	ST	OBC VJ, NT,SBC	Physically Challenged	Total
UG	1322	594	144	2375	35	4435	1344	644	164	2599	32	4751
PG	46	39	2	110	0	197	80	55	0	173	0	308

2016-17: Dropout % 2.25% (114 students)

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Aptitude tests, Mock GD's, Mock Practice Tests are conducted in house by experts faculty of the college and also in collaboration with outside agencies to prepare students for competitive examinations.
- Orientation Program like TiE (Talk in English) on communication skills is conducted.
- Guest Lectures are also arranged for CAT/GRE/ GATE preparation through departmental GATE clubs to guide students who are aspiring to appear for GATE exam.
- Company specific aptitude tests are also conducted.
- Group Discussion and Personal Interview sessions are arranged from experts outside college.
- Lectures for entrepreneurship development are arranged.
- Training and Placement and IRO Cell help students in solving various queries of the students.
- Student Interaction with Alumni, Academic & Industrial experts
- Special re-brushing classes by course teachers before the campus placement drives and competitive examinations.

No. of students beneficiaries

203

5.5 No. of students qualified in these: **102**

NET

--

SET/SLET

--

GATE

61

CAT

18

IAS/IPS etc

--

State PSC

--

UPSC

--

Others

23

5.6 Details of student counseling and career guidance

No. of students benefitted

700+

- Guidance on jobs available, placement possibilities and for pursuing higher studies program in India and abroad universities.
- Guidance activities at Department level:
 - Training Need Analysis to gauge their strength and weakness and plan and organize Curricular & Co-curricular activities, guest lectures, etc.
 - Conduction of classes/guest lecture for Aptitude, GD and PI
 - Alumni interaction organized at the departments.
- Faculty Advisor Scheme at Departmental level.
- Counseling departmental level for students.
- Guest lecture's for higher studies in India and abroad are conducted.
- Workshop on Aptitude Development for students is conducted every year.
 - "Carrier Opportunity after UG: Seminar by Mr. Mehul Zunzunwala, Director, T.I.M.E., Nagpur
 - Emerging Trends in IT: Seminar by Mr. Deepak Dhote (Operations Manager: IT-NetworkZ Infosystems Pvt. Ltd.
 - Seminar on fast calculation
 - Seminar on Higher Studies
 - Guest Lecture on Stress Management in association with Rotary club
 - Gate Club Lecture by Prof. B.U.Bawankar , Asst. Prof., IT Dept., YCCE, Nagpur
 - Guest Lecture on "Becoming Project Manager after B.E."

Student Career Guidance: TPO Activities (2016-17)
Campus Recruitment Training conducted from 11 th to 30 th June 2017 of 80 hours for 7 th Sem students.
Mock Interviews by experts from corporate & industry conducted from 1 st Aug 2016 to 10 th Aug 2016
Industry-Academia Conclave was held on 21 st January 2017 for 6 th & 8 th Semester UG students
The "Guardians of the Sky - IV", Indian Air Force Career Awareness Program conducted on 2 nd January 2017 for all the branch students
"How to Face Campus Interview and its Preparation " a Seminar by Mr. Satyajit Mitra, Manager – HR, Infocepts Technologies Pvt. Ltd. conducted on 27 th March 2017
TCS Codevita Contest Awareness Program on 19th June 2017 was conducted on by Mr. Hari Menon from Tata Consultancy Services Ltd., Mumbai

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
36	812	778	NA

5.8 Details of gender sensitization programs: **03 Programs**

- "Common problems in girls and Health Education", by Dr. Shantala Bhole, MBBS, DGO and Gynecologist (Udaan NGO)
- "Awareness about Cervical and Breast Cancer" by Dr. Rohini Patil, Obstetrician & Gynecologist (MBBS, MD), Nagpur. (Snehanchal NGO)
- "Awareness about Sexual Harassment" by Ms. Vailshali Kelkar

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	1262	131.13 Lakh
Financial support from government	2808	22.31 Cr.
Financial support from other sources	--	--
Number of students who received International/ National recognitions	--	--

5.11 Student organized / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

12

- ✓ Ek Mutthi Anaj (in association with rotary club)
- ✓ Awareness Program on Digital Gram Sabha for Adegaon Village
- ✓ Basic Computer Training to students of Adegaon Village
- ✓ Cervical Cancer Awareness Programme
- ✓ Book Donation Camp at Hingna School
- ✓ Nirmalya Collection by students at Futala during Ganesh Visarjan
- ✓ Blood Donation Camp
- ✓ Visit to orphanage home
- ✓ IEEE Women"s Day
- ✓ Tree Plantation
- ✓ Workshop in collaboration with Ankur Seeds, Nagpur, for farmers in the villages where the farmers are given the information by the experts about Farming Management, Modern Farming Techniques, Weather Information, B.T cotton Farming & Management etc.
- ✓ ENVIRON-17, a paper presentation competition on "Innovative ideas in Environmental Engineering & Sciences" in association with International Journal of Emerging Technology and Advanced Engineering

5.13 Major grievances of students (if any) redressed: No major grievances of students reported.

Criterion – VI

6 Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

OUR VISION

To become a benchmark institute where learning is a joy, education is for the tomorrow, R & D is pace setting and everyone is committed to delivering competent human resource for prosperity and well-being of industry, profession and society.

OUR MISSION

To prepare competent need based human resource and responsible citizen for engineering profession through dissemination of knowledge and technical skills and create an environment that fosters the involvement and commitment of all stake holders for continuous improvement in performance and quality.

6.2 Does the Institution has a management Information System

The state-of-the-art Management Information System (MIS) is installed in the college and is being commissioned progressively. The MIS system has been developed to handle the academic needs of the stakeholders. It 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.

The software has been divided into several modules. **The Academic Module:** It takes care of teaching learning process. The main functionality are Faculty teaching load allocation, Course wise student allocation to the teachers, attendance monitoring, Internal evaluation, and Student Feedback. The attendance analysis and subsequent report generation for the entire class can be generated.

The Examination Module: The module helps in conducting the examinations, online evaluation of answer sheets, processing of examination results in significantly reduced time. The mid semester examination marks of theory and practical exams are uploaded by faculty. The system generates internal marks for all students as per weightage assigned. The integration of Academic and Examination module is helpful in preparation of detention list. We could declare end semester results within 15 days due to this automation. **The Administrative Module:** General administration work related issues are handled by this module. The employee biometric attendance, leave records and service book details are taken care by this module.

Student Feedback: The student feedback is collected online in transparent manner, analyzed and reports are generated.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

The cutting-edge curricula are designed in consultation with the various stake holders so as to identify the local, regional, national and global aspirations of industry players. Curricula is perfectly aligned which reflects the lofty vision and mission of the institute. The outcome- based education (OBE) is the central idea around which the whole exercise of curricula design, development and implementation revolves. It encompasses the central theme of graduate attributes as advocated in the philosophy of NBA.

1. The cutting-edge courses are designed to provide a level playing field to the learners so as to develop their critical thinking, problem solving acumen, teamwork, and above all social and moral values.
2. The teaching departments rope in the experts from the industry and academia so as to design the courses which are at par with industry 4.0.
3. The curricula are developed with an aim to sensitize the learners on universal human values, social, moral, and environmental obligations.
4. The curricula are designed such a way that it provides an ample room for ICT based learning. Add-On and value-added courses through MOOCS platform shall position the learners high on a learning curve.

The Curriculum is designed to ensure that the students have the required domain knowledge, skills, and innovative mind sets, opportunities to learn through ODL using Swayam / NPTEL and extensive use of ICT. The documents referred for the curriculum design are: (i) Model curriculum prescribed by AICTE, (ii) The Program Specific Criteria of professional bodies, (iii) Suggestions by industry experts and alumni, (iv) Syllabus of various reputed Indian and International Universities, (v) Recent technological developments in the domain. The core values specified by NAAC are taken into consideration in curriculum to enhance human resource development, capacity building of individuals, and the needs of the society, industry, and the nation.

YCCE adopted Choice Based Credit System (CBCS). Industry aligned/supported elective courses, Open Electives, Projects, and Seminars are prominent inclusions.

The academic autonomy of the Institution provides the opportunity to frequently revise the curriculum based on needs and suggestions of various stake holders. The major revisions of curriculum are carried out once in every four years; up to 20% minor changes are done every year as per the need.

6.3.2 Teaching and Learning

The institute adopts various types of proven pedagogy for teaching and learning. The special emphasis is given to collaborative teaching and learning practices. The entire processes of the institute are learner centric for enhancing learning experiences and ensuring the all-round development of students. The institute has adopted innovative teaching and learning process as its differentiators which makes the classroom teaching as well as practical performing very much captivating and interesting for the students. The courses are designed in student centric fashion, by emphasizing on learning outcomes and making the classroom teaching participative and interactive. The innovative experiential methodologies, Problem Solving Methodologies and Participative Learning Methodologies are used.

The institution encourages extensive use of ICT in teaching and learning. The institute has Computer labs with internet facility, Wi-Fi, LCD Projectors, Smart Boards, Video conferencing facility, and Language lab and Conference halls to develop interactive skills. The Moodle based departmental websites, the T-L platforms like: Impartus platform is used.

In the seventh semester, real time projects are given to the students which are being guided by academicians, industry and research personnel. The Assignments are given to the students to nurture their problem-solving abilities.

Departmental professional technical societies have been established with an objective of tapping, nurturing and channelizing the energies of every individual student. The Inter-college and inter-departmental academic programs besides enhancing creativity bring a competitive edge to the academic endeavor of the students.

The industrial visits, site visits, camps survey, guest lectures are conducted regularly based on the latest trends in the industry. Hands on training workshops by the industry experts, add to the practical learning of the students.

The Institution has established incubation center for students with an aim to inculcate the culture of innovation amongst students and encourage them to generate new ideas.

6.3.3 Examination and Evaluation

The academic rules and regulations, the regulations governing examination, evaluation and mal-practice etc. are enshrined in the college prospectus. ICT-enabled processes have been adopted by the institution in the examinations and Evaluation. The course teacher plans the evaluation by applying appropriate assessment tools. This evaluation pattern is being made known to the students at the beginning of the semester with rubrics and assessment frameworks.

The Institute follows semester system for both undergraduate and postgraduate programs. The student's performance in each semester shall be evaluated course wise with a maximum of 100 marks for theory and 100 marks for the practical courses. The mini- project, seminar, comprehensive viva-voce each have a weightage of 100 marks and final year project work have 200 marks respectively. A candidate will have to score minimum 40 marks in theory course and 50 marks in practical courses in the end semester examination. Marks obtained in all the credits are considered for the calculation of CGPA.

Continuous internal assessment is done through conducting various mid-semester tests from time to time as per the academic calendar. Three mid semester exams for each theory course, one online test for Teachers Assessment marks for each course are conducted in each semester for B.E. and M. Tech Programs. The continuous evaluation of practical course is carried out every week. Seminars, quizzes etc. activities are also conducted. For the final year project evaluation rubric based standard operating procedure is followed by every department. It starts with the title selection seminar, synopsis submission, periodic progress seminars and demonstrations, thesis evaluation, internal viva voce and external examinations.

Question papers are thoroughly moderated to ensure the standard, coverage of the syllabus and mapping of COs as per BLOOMS taxonomy. All the examinations are conducted with strict adherence to the Institute academic calendar and timely publication of results.

Examination Management System services are available to integrate all the activities in the examination cell. The pre and post examination activities are integrated.

The valuation of the answer sheets are done in online mode. The facility of showing the answer sheet before declaration of the result and challenging the evaluation system are the measures taken to showcase the transparency in the evaluation system. The tabulation committee re-examines marks and decides the grade cut-offs on the basis of certain standard calculations. The trial results are sent to RRMC for the review and comments. The final results are processed through tailor made software. Gazette, Tabulation registers and Grade Sheets are prepared through the software.

6.3.4 Research and Development

The Institution has framed research policy to promote R&D culture amongst the faculty and students in the Institution through structured systems of research among faculty and students. R&D cell is decentralized into five verticals with defined functions of the verticals.

i) Division of Research Advocacy: looks primarily after PhD programmes, Institutional Journal and Research Portal. The vertical frames academic rule and regulations for the scholars pursuing PhD in the institute research centres.

ii) Division of Research Publications: responsible for strengthening the quality of publications and increasing the citations of faculty and students in reputed research databases. This division organizes programmes based for enhancing publications. The plagiarism checking is the main responsibility.

iii) Division of Experimental Research: takes care of funding proposal guidance, drafting and submission. Organizes various activities related to their domain of responsibilities.

iv) Division of Research Innovation & Incubation: primarily looks after IPR, Innovation and Incubation activities of the institution and responsible for providing the required infrastructural support for incubation of ideas and monitor utilization of seed money.

v) Division of Industrial Research & Consultancy: Looks after Industry related Coordination and collaborations, Consultancy in departments and Joint Research with Industry.

Vertical leaders frame action plan for achieving targets as given in the Five-year action plan. Vertical leaders frame activity calendar and monitor progress of the targets every month ensure the achievement of the set targets.

The Institute encourages faculty members to involve themselves in research by providing well equipped research laboratory facilities and offering several incentives to the faculty members.

Research Portal is available for projecting research efforts of faculty members and students.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The institute is constantly infusing adequate capital to develop modern and state of the art infrastructure like smart class rooms, conference halls, startup ecosystem, modern laboratories, library resources. The Institution has adequate infrastructure and physical facilities for teaching-learning as per the norms prescribed by regulatory bodies.

The college library has rich collection of textbooks and reference books. A digital library is available for online access of teaching learning material. The college has the IEEE digital library subscription to promote research. It subscribes national journals and international journals. Specialized services like Reprography, Inter Library Loan Service, OPAC, In- house/remote access to e-resources, INFLIBNET/IUC facilities are provided.

YCCE IT policy exists to maintain, secure, and ensure legal and appropriate use of Information technology infrastructure established on the campus. The college always emphasizes on the use of standard tools and open source as well as proprietary software's. 2:1 Student Computer Ratio is being maintained in the institute. The network is established in the entire campus. Campus intranet has paved way to provide seamless access to e-journals, online lecture streaming and application software. Entire campus is Wi-Fi enabled. The internet connectivity with leased lines is available throughout the campus. The website provides access to official information of the college.

The infrastructure comprises of Administrative Building, Departments Buildings, Controller of Examinations office, State of the Art laboratories, Centers of excellence, Incubation Center, Central Computing Center, Innovation Gallery, well-furnished classrooms, Auditorium, Conference Halls, Library, Canteen, Hostel, Gym, Student Support Centre, Power supply systems, Water supply etc.

Each department is provided with separate physical infrastructural facilities as per the AICTE requirements. The sufficient number of Classrooms, Tutorial rooms and Laboratories are made available as per the programs offered by each department. All the class rooms, seminar halls and many of the laboratories are ICT enabled with e-learning facilities. Well-equipped laboratories are available in the institution for effective conduction of laboratory courses. Virtual lab facility of IIT Bombay is available in the institute.

To facilitate proper and continuous power supply a 400 KVA transformer is installed in the campus. The solar panels are installed on the roofs of the buildings which satisfies maximum energy requirements of the college.

6.3.6 Human Resource Management

The Governance and Leadership of the Institution ensure that its operations are functioning well by nurturing the decentralization and participative decision-making.

The implementation of the functionalities are ensured in decentralized manner at various levels; through Deans, Heads of the Departments Director (R&D), Director (Training and Placement), Controller of Examinations, Registrar, Student Activity In-charge, Director (Sports) and team of research vertical heads.

Institute ensures the students participation in the decision making process. The student representation is in IQAC/DQAC, Anti-ragging committee, Library Committee, Student Grievance Redressal Committee, Internal Complaint Committee, Hostel Committee, YCCE Fest Organizing Committee, The annual Cultural fest "YASH" organizing Committee, Editorial Board, College Magazine, Editorial Board, Department Magazines and News Letters etc.

The Institute has a set of well-established rules, policies and regulations within the frame work of AICTE, State Govt. and the affiliating university, which are approved by the Board of Management of the Institute. The rules and regulations of the institute are published and revised periodically.

The Grievance Redressal Mechanism of the institution is established with an aim to provide easy and readily accessible procedure for prompt disposal of the day to day genuine grievances of the student and faculty community to maintain a congenial atmosphere.

All statutory welfare measures are implemented. Various monetary, non-monetary measures towards personal and professional growth are being followed to the satisfaction of the employees.

1. Employees are covered under EPF and Gratuity.
2. Group Insurance Scheme from inception of the college for regular and permanent teaching and non-teaching staff members.
3. Study, Maternity and Medical leaves for the staff
4. Financial support for attending conferences and workshops /presenting research papers in national and international conference &in reputed journals, for Filing Patents, Copyrights and Monographs
5. Concession in tuition fees of the ward of the staff of the college.
6. ERP Biometric system for all the administrative modules of the institution
7. Organize training programs/workshops/seminars for enhancing the multi-skills of the faculty
8. Effective appraisal system to assess the performance of faculty

6.3.7 Faculty and Staff recruitment

- Every year requirement for staff is sought from the Heads of the Department.
- Recruitment of faculty and support staff as per the guidelines of University and AICTE/UGC
- University approval for the advertisement of regular posts.
- Advertisement in leading News Papers of Local and All India circulation
- The internal promotion of eligible teaching and support staff through internal promotion scheme.
- Scrutinizing the received application as per prescribed norms
- Interviewing the candidates by the selection committee/s as per the schedule
- Selection of cadre wise candidates based on performance
- Issue of the appointment order/s to selected candidate

6.3.8 Industry Interaction / Collaboration

- Industry professional representation on BoS/Academic Council
- Involvement of industry professionals in curriculum design, delivery, and assessment.
- Industry aligned professional elective course syllabus are framed and delivered by Industries
- Arranging Industry visits/tours, Expert Lectures Internships, Industrial Training for the Students, Industry based Student Projects, Training for the Faculty, Incubation and Entrepreneurship Programs.
- Resource person in various technical events
- Students participated in various competitions organized in collaboration with industries.
- MoU's with the industries and plan collaborative activities.
- Co-guides for UG/PG projects, Resource persons for FDP/STTP/Workshops,

6.3.9 Admission of Students

- 80% Admissions through Govt. of Maharashtra's CAP (Common Admission Process) as per the prescribed rules.
- 20% Management seats are filled at institute level as per the guidelines of state admission committee
- All Admissions are carried out purely on the basis of merit and in a transparent manner by way of counseling
- Publicity through print & other media, participations in educational expos.

6.4 Welfare schemes for

Welfare schemes for
Teaching: <ol style="list-style-type: none">1. Teaching Employees are covered under EPF and Gratuity.2. Group Insurance Scheme for regular and permanent teaching.3. Study, Maternity and Medical leaves for the faculty4. Financial support for attending conferences and workshops /presenting research papers in national and international conference & in reputed journals, for Filing Patents, Copyrights and Monographs5. Concession in tuition fees of the ward of the staff of the college.6. ERP Biometric system for all the administrative modules of the institution7. Organize training programs/workshops/seminars for enhancing the multi-skills of the faculty8. Effective appraisal system to assess the performance of faculty
Non-teaching: <ol style="list-style-type: none">1. Employees are covered under EPF and Gratuity.2. Group Insurance Scheme for regular and permanent non-teaching staff members.3. Study, Maternity and Medical leaves for the staff4. Financial support for attending training programs/workshops5. Concession in tuition fees of the ward of the staff of the college.6. ERP Biometric system for all the administrative modules of the institution7. Organize training programs/workshops/seminars for enhancing the multi-skills of the staff8. Effective appraisal system to assess the performance of staff
Students: <ol style="list-style-type: none">1. Insurance Scheme for all the students2. Financial support for participation in competitions, attending conferences and workshops, publication of papers in national and international conference & in reputed journals, Filing Patents etc.3. Financial support for development of UG projects as a seed money.4. Organizing Professional Campus Recruitment Training (CRT) for sixth semester students without any charge of fees.5. Book Bank Scheme for Toppers, Needy and Reservation Category Students6. Concession in tuition fees for economically weaker section students.

7. GYM for the students
8. Student Support Centres
9. Counselling by Faculty Advisor and Psychological Counsellor
10. Organizing various technical events through installation of professional body student chapters
11. Medical Check-up Camp
12. Laptops for toppers.
13. Cash prizes for 3 toppers from each department.

6.5 Total corpus fund generated

NA

6.6 Whether annual financial audit has been done Yes

No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic (Department Level Annual Assessment /Audit- DLA)	--	--	YES	Meghe Group of Institutions (MGI)
Academic (Internal Autonomy Audit)	--	--	YES	YCCE, Faculty
Administrative (Financial)	YES	V.K. Surana & Co.	YES	AOs of other MG Institutions

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes

Yes

No

For PG Programmes

Yes

No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- The facility of showing the answer sheet before declaration of the result and challenging the evaluation system are the measures taken for the transparency in the evaluation system.
- All the examinations are conducted with strict adherence to the Institute academic calendar and timely publication of results.
- Question papers are thoroughly moderated to ensure the standard, coverage of the syllabus and mapping of COs as per BLOOMS taxonomy.
- For engineering drawing practice and examinations the Institute is using Auto cad.
- Online examinations for teacher assessment (TA) marks

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

NA

6.11 Activities and support from the Alumni Association

- Contributes in curriculum design/revision as a Members of BoS
- Guest Lectures & Interactive sessions with students
- Silver Jubilee Alumni Meet: Reunion 1987-1991 Batch on 26/11/2016
- Alumni Meet : Reunion 1991-95 on 11/06/2016
- Industry Academia Conclave – 2017,“ Strengthening Strategies for Industry Academia Interface”

6.12 Activities and support from the Parent – Teacher Association

1. Parents encourage, guide, and monitor the students participation in Curricula, Co-curricular and Extra-Curricular technical, cultural and sports activities.
2. Parents gives feedback on the review and design of syllabus requirements, feedback on OBE implementation, feedback on infrastructural facilities etc.
3. Representation on various statutory and non-statutory bodies/committees of the institute.
4. Provide real feedback to the members of various committees during the Parent Committee Member interactions.
5. Parents also attend the various events organized by the institute.
6. Volunteering in organization of events and as a resource persons in some events.

6.13 Development programmes for support staff

Training program on “Hardware Networking & Server Maintenance” was organized on 29-09-2016 by CT Dept.

Training program on C programming for support staff of MGI group was conducted on 9 April 2017 by CT Dept.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Automation of the academic & administrative processes,
- Installation of solar power system,
- Installation of water harvesting system,
- Electronic display boards,
- Communication through emails,
- Usage of paper on both side for office work,
- Use of Dustless Chalk,
- Energy efficient lighting – LED lights that consume less power
- Tree plantation,
- Plastic Free Campus

Criterion – VII

7 Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Academic Innovations: **Visiting Professors, Moodle based Departmental Website, 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, Annual Workload Plan**
- Development of Students: **PG Mentor Scheme, Campus Recruitment Training (CRT), Industry aligned Professional Electives, Industrial Tours & Industrial Visits**
- Research & Development: **Mentoring for Funding Proposal Submission**
- Supporting Staff: **Best Employee Award, Family Picnics**

See Annexure: 3

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year 2016-17

Outcomes of Action Plan 2016-17

Outcomes of IQAC Annual Action Plan (2016-17)	
Quality Assurance Initiatives	NBA Accreditation of 4 UG Programs for 3 Years
	Department Level Assessment of all the departments is carried out.
	Perspective Plans by HoD's for the Departments is presented.
	Interaction of the management with the Student's is held.
	Implementation of Group Level Quality Enhancement Initiatives (VPS, TiE, Killer Subject, Mentor-Mentee Scheme, PQAI, PG Mentors, Industry Co-
Student Development	778 Students Placed in MNC's through Campus Placement
	102 Students Qualified in Competitive Exams , GATE, CAT, etc.
	Rs. 33.43 Lac Financial Support to 57 Students by institution
	08 Professional Society Student Chapters in the Departments
Faculty Development	191 Faculty Members Attended Conferences/Symposia/FDP.
	167 Faculty members are provided financial support for attending FDP/Workshops/Conferences etc.
	321+47 Papers are published by Faculty Members in Conf. & Journals.
	65 Faculty Members Served as Experts, Resource Persons
	Books Published: 02, Book Chapters Published: 02,
15 PhD Faculty members are added in the institution. Total PhD Faculty:	

Innovative Methods & Best Practices	Departments are practicing various innovative methods in T-L
	Institute Best Practice: Online Exam. for Teacher Assessment
	DQAC's are also implementing various Best Practices
Infrastructure & Resource Development	Increase in infrastructure facility: Class Rooms Added: 03, Major Equipment (> Rs. 1Lac) Purchased: 23 No. of Computers Added: 103
	Electronic Question Bank for all First Year Courses
	Text Books Added: 3869, e-Journals Added: 609
Institute-Industry Interaction	Involvement of Industry/Industry Experts in development activities (Co-guides for UG/PG Projects, Resource Person for FDP/STTP, CDW, and Industrial Tours/Visits etc.)
	Semester Long Duration Industry Internship for IT Students
	Industry Aligned Course by InfoCepts Pvt. Ltd.
	Industry Academia Conclave - 2017 (Alumni Interaction) " Strengthening Strategies for Industry Academia Interface"
R & D Activities	International Conference: 02
	National Conference: 01
	Funded Major Projects: 08 (On-going) Rs. 174.44 Lac, 31 (Submitted) Rs. 2209.83 Lac
	47.94 Lakh Revenue is generated through consultancy.
Initiatives for Eco-Friendly Campus	Increase in Research Centre Admission Intake
	Installation of Solar Energy System: 2 Building Roofs
	Tree Plantation in the campus
	Automation of Academic Processes (TV Displays, MIS, Student Attendance Through SMS etc.)

Actionable Points	Action Taken
Inclusion of IQAC Member suggestions in the Annual Action Plan format	The following suggestions of IQAC members are included in the proposed IQAC Action Plan Format. 1) All the DQAC's should also ensure implementation of Annual Action Plan. 2) Perspective Plans of the Department and AWL plan tuning as per the requirements 3) ATR of Interaction with Management to be displayed on notice board for information of students 4) Encourage faculty members for qualification improvement 5) Support students for preparation of competitive exam. by arranging coaching, expert/guest lectures etc. 6) Copyrights of DTEL material developed by Faculty.
Standard 6 Monthly/ Annual Report Submission format should be provide by IQAC to DQAC's	The format is prepared considering the requirements and provided to the DQAC's.

7.3 Give two Best Practices of the institution:

- | |
|---|
| <ol style="list-style-type: none"> 1) Academic Enhancement and Monitoring Practice 2) Administrative Coordination and Review Practice |
|---|

See Annexure: 4

7.4 Contribution to environmental awareness / protection

- Reduced & Reuse of papers in offices
- Green Measures: Tree Plantation, Rain-water harvesting
- Installation of Solar Energy panels on the roof of buildings
- Automation of Examination Processes
- Automation of Faculty Annual Progress Report Process
- Save Water & Electricity
- Use of LCDs for power needs
- Effective recycling of waste

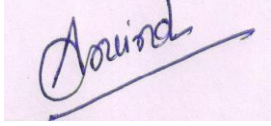
7.5 **Whether environmental audit was conducted?** Yes No

7.6 **Any other relevant information the institution wishes to add. NIL**

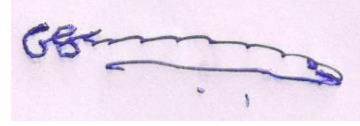
8. Plans of institution for next year (2017-18)

IQAC Annual Action Plan (2017-18)	
Quality Assessment & Accreditation	<ul style="list-style-type: none"> • Visit of NBA Expert Committee for Accreditation of 4 PG Programs
	<ul style="list-style-type: none"> • Submission of NBA SAR for Accreditation of 2 UG Programs (IT & EE)
	<ul style="list-style-type: none"> • Submission of NBA Accreditation application for CT (UG) & Communication (PG) Program
	<ul style="list-style-type: none"> • Review of Vision, Mission of Institute/Departments, PEO, PO
	<ul style="list-style-type: none"> • Defining PSO's by all the departments for UG/PG programs
	<ul style="list-style-type: none"> • Internal Autonomy Audit
	<ul style="list-style-type: none"> • Implementation of Group level initiatives (DLA, CRT, VPS, TiE, Killer Subject, Mentor-Mentee, PQAI, Project Mentors)
Faculty Development	<ul style="list-style-type: none"> • Faculty Recruitment on Regular University Approved Posts
	<ul style="list-style-type: none"> • Internal Promotion of Faculty & Support staff
	<ul style="list-style-type: none"> • Permission to the Faculty for pursuing PhD as per rules
	<ul style="list-style-type: none"> • Participation of Faculty in STTP/FDP/Workshops
	<ul style="list-style-type: none"> • Consultancy by departments as per assigned targets to fulfill the requirements of NBA/NAAC
Student Development	<ul style="list-style-type: none"> • Organization of various Student development activities under Professional Society Chapters, implementation of CRT
	<ul style="list-style-type: none"> • Guidance & Expert Lectures for Competitive Examinations preparation through GATE Clubs
	<ul style="list-style-type: none"> • Visit of Students to Institute of Eminence/Research Labs
	<ul style="list-style-type: none"> • Development of e-Resources: DTEL material, Question Bank
R & D Activities	<ul style="list-style-type: none"> • International Conference on Multidisciplinary theme
	<ul style="list-style-type: none"> • Thrust Areas Specific Activities: Lab. Development, Proposals, Publications, STTPS/SDP/Training etc.
	<ul style="list-style-type: none"> • Submission of Proposals to funding agencies (R & D Cell)
	<ul style="list-style-type: none"> • Faculty/Students visits to Research Institutes/ Industries
	<ul style="list-style-type: none"> • Initiatives to Establish Incubation Center
	<ul style="list-style-type: none"> • Industry Supported Labs Establishment/Research Lab Linkages for Collaborative Research by the Departments
Institute-Industry Interaction	<ul style="list-style-type: none"> • Industry Experts involvement in development activities (Co-guides for Projects, Resource Person for FDP/STTP, CDW etc.)
	<ul style="list-style-type: none"> • Industry Linkages through Industrial Tours/Visits etc.
	<ul style="list-style-type: none"> • Floating more Industry Aligned & Open Elective Courses
Interaction with Stakeholders	<ul style="list-style-type: none"> • Interaction of the management with the Students for feedback
	<ul style="list-style-type: none"> • Alumni Meet & Alumni involvement in the departmental activities
	<ul style="list-style-type: none"> • Parent Teacher Meet as per academic calendar
	<ul style="list-style-type: none"> • Employer Meet by TPO
Extension Activities	<ul style="list-style-type: none"> • Orphanage Visit, • Blood, Book/ Cloth Donation Camp • Program on Girls Safety • Participation of Students in NSS/NCC Events

Initiatives for Eco-Friendly Campus	<ul style="list-style-type: none">• Tree Plantation in the campus• Automation of Academic Processes (Student Diary, Mobile Based Attendance, etc.)• Save Water & Electricity Campaign
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Prof. Arvind R. Bhagat Patil
Signature of the Coordinator, IQAC



Dr. Uday P. Waghe
Signature of the Chairperson, IQAC

Annexure-1

Yeshwantrao Chavan College of Engineering

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

Hingna Road, Wanadongri, Nagpur

Academic Calendar for Odd Semester in Academic Session 2016-17

Date of Release: 06 June 2016

Undergraduate Autonomous UG Program (III, V and VII Sem BE)	Dates
Course registrations (3, 5 and 7 Sem BE) without late fee	27-30 June 2016
Commencement of Teaching (3, 5 and 7 Sem BE)	01 July 2016
Last Date for Course registrations (3, 5 and 7 Sem BE) with late fee	02 July 2016
Mid Semester Examination (MSE)-1	01-06 Aug. 2016
In Semester Feedback	08-24 Aug. 2016
Mid Sem Technical and Cultural Activities	14-17 Aug. 2016
Showing the answer books to students and discussion with students. Grievances, if any, to be submitted to Grievance Redressal Committee	18-20 Aug. 2016
Last Date for submission of MSE – I Marks to CoE	22 Aug. 2016
Display of Result MSE – I	22 Aug. 2016
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of MSEI for Odd Term 2016-17	23 Aug. 2016
Students with low attendance/ poor performance to meet HoD/FYC	23 Aug. 2016
Mid Semester Examination (MSE)-2	13-19 Sept. 2016
Showing the answer books to students and discussion with students. Grievances, if any, to be submitted to Grievance Redressal Committee	26-28 Sep. 2016
End Sem Feedback from students	27 Sep.-10 Oct. 2016
Last Date for submission of MSE-2 Marks to CoE	29 Sep. 2016
Students with low attendance/ poor performance to meet HoD / FYC	29 Sep. 2016
Display of Result MSE-2	01 Oct. 2016
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of MSE-II for Odd Term 2016-17	03 Oct. 2016
Parents of Students with low attendance/ poor performance to meet HoD / FYC	03 Oct. 2016
Parent Teacher Meeting	08 Oct. 2016
Submission of potential detention list/ non course completion list to Dean Academics for attendance till 11 Oct. 2016	13 Oct. 2016
Payment of fine, etc, Clearance to get Admission Card of Exam	18-20 Oct. 2016
Last date for Acceptance of Final Submission in Lab courses	15 Oct. 2016
Submission of provisional detention list to Dean Academics for attendance till 14 Oct.16.	17 Oct. 2016
End of Teaching for all Classes (Attendance will be computed till this date)	22 Oct. 2016
Submission of Final Detention List to Dean Academic Matters	22 Oct. 2016
Compilation/Submission of TA/CA Marks to CoE.	22 Oct. 2016
Display of Final Detention List on Notice Boards/ Forward to CoE by Dean AM	22 Oct. 2016
Distribution of Exam Admission Card to students	26-27 Oct. 2016
End Semester Examination (ESE) including Practical courses	02-23 Nov. 2016
Deewali Vacation (Students)	23-31 Oct. 2016
Showing the answer books to students and Discussion with Students Grievances, if any, to be submitted to Grievance Redressal Committee	24-31 Nov. 2016
Winter break for students	28 Nov.-12 Dec. 2016
Results	12-17 Dec. 2016
College Re-opens for Even Term 2015-16	13 Dec. 2016
Last Date for submission of grievances/ appeals by students regarding marks, valuation, Grades etc of ESE for Odd Term 2015-16	20 Dec. 2016

Yeshwantrao Chavan College of Engineering
Hingna Road, Wanadongri, Nagpur


Academic Calendar for Even Semester in Academic Session 2016-17

Date of Release: 07.11.2016

V 1.00

IV,VI & VIII Semester BE	Dates
Course Registrations IV,VI & VIII BE	07-10 Dec. 2016
Commencement of Teaching IV,VI & VIII BE	13 Dec. 2016
Last Date of course registration IV,VI & VIII BE	15 Dec. 2016
Mid Semester Examination (MSE)-I	11-17 Jan. 2017
Showing the answer books of MSE-II to students	16-21 Jan. 2017
Last Date for submission of MSE – I Marks to CoE	23 Jan. 2017
Display of Result MSE – I	24 Jan. 2017
Students with low attendance/ poor performance to meet HoD	25 Jan. 2017
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of MSE I	27 Jan. 2017
Mid Semester Examination (MSE)-II	21-28 Feb 2017
Showing the answer books of (MSE)-II to students	01-04 Mar 2017
Yash Cultural Fest (Teaching will be suspended during the fest)	02-05 Feb. 2017
Last Date for submission of MSE-II Marks to CoE	06 Mar. 2017
Display of Result MSE-II	07 Mar. 2017
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of MSE II	09 Mar. 2017
Students with low attendance/ poor performance to meet HoD	04 Mar. 2017
Parents of Students with low attendance/ poor performance to meet HoD	11 Mar. 2017
Parent Teacher Meeting	11 Mar. 2017
Submission of potential detention list/ non course completion list to Dean Academics for attendance till 11 Mar. 2017	15 Mar. 2017
Last date for Acceptance of Final Submission in Lab courses	22 Mar. 2017
Submission of provisional detention list to Dean Academics for attendance till 18 Mar. 2017	23 Mar. 2017
Compilation/Submission of TA/CA Marks to CoE.	29 Mar. 2017
Re-MSE I and II	22-24 Mar. 2017
Showing the answer books of Re-MSE I and II to students	27 Mar. 2017
End of Teaching for all Classes (Attendance will be computed till this date)	01 Apr. 2017
Submission of Final Detention List to Dean Academic Matters /Display on Notice Boards/ Forward to CoE by Dean AM	01 Apr. 2017
Distribution of Exam Admission Card to students	04 Apr. 2017
End Semester Examination (ESE) including Practical courses	06 Apr.-06 May 2017
Showing the answer books to students and Discussion with Students	02-06 May 2017
Grievances, if any, to be submitted to Grievance Redressal Committee	
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of ESE	11 May 2017
Summer break for Students	07 May-18 Jun. 2017
Results	25-29 May 2017
Last date for submission of Grievance / appeals of students regarding grade allocation SGPA etc.	31 May 2017
College Re-opens for Odd Term 2017-18	19 Jun. 2017

Date: 07.11.2016



S.D. Bhole
Dean Academic Matters

Annexure-2

The Institute has a mechanism for collection of feedback from students every semester on the various facilities like library, Medical facility, Drinking water, Canteen, Parking, Internet, Cleanliness etc. The well designed format is specified. The feedback collected is analyzed by the Principal/Dean/Registrar office and corrective measures to be taken by respective departments/sections are communicated to them and ensured periodically by Principal office.

Sample feedback on facility and actions taken:

5: EXCELLENT (MORE THAN EXPECTED)

4: GOOD (MEETS EXPECTATIONS)

3: JUST OK (BEARABLE, CAN BE IMPROVED)

2: POOR (BELOW EXPECTATIONS, TO BE IMPROVED)

1: VERY POOR (NEEDS URGENT ATTENTION)

Question	Participated Students	Feedback Response					Action Taken
		5	4	3	2	1	
1. Drinking water is available in departments round the clock	2176	150	445	541	362	678	Drinking water is stored before 6 am to the root water tanks. The purified water supply is made through Water coolers and chillers installed on all department floors.
2. Washrooms are clean and hygienic	2167	143	498	677	366	483	Enhancement in manpower and good quality of cleaning material is provided.
3. Availability of dustbins on all floors and common areas	2154	202	546	709	339	358	Abundant dustbins are provided on all floors, common rooms and in library.
4. Quality of food in the Canteen	2147	239	732	701	234	241	Two canteens and food court is made available.
5. Ambience and hygiene in Canteen	2132	193	702	752	256	229	Surprize checks are carried out by Principal & Admin Officer for ensuring food quality in canteen.

6. Parking for Students vehicles is conveniently located and sufficient	2105	211	622	650	258	364	Students two-wheeler and four-wheeler parking is separately provided. Similarly, students who are medically unfit are facilitated to bring their vehicle near their department.
7. Cleanliness in classrooms, laboratories & departments, Computer labs library etc.	2112	214	711	734	233	220	To improve working, new manpower agency is engaged w.e.f. 1.07.2017. Enhancement in manpower and good quality of cleaning material is provided which is giving good result.
8. Psychological Counsellor/ Medical facility/ First aid boxes are available on campus	2084	171	743	735	234	201	Qualified Psychological Counsellor is available. For medical facility, Datta Meghe Ayurved Hospital adjacent to YCCE is available. Ambulance with driver is made available 24 x 7. First aid boxes are available in all departments.
9. Suggestion boxes are available in each department / section.	2064	1374	0	0	0	690	Online suggestion facility is available. Contact numbers of Admin Officer and OSD are made available through Display boards in all departments for any complaint / suggestions.

Feedback collected for all courses: YES/NO; Specify the feedback collection process; Average Percentage of students who participate; Specify the feedback analysis process; Basis of reward/ corrective measures, if any; Indices used for measuring quality of teaching& learning and summary of the index values for all courses/teachers; Number of corrective actions taken.

Feedback collected for all courses : YES

- Specify the feedback collection process: Feedback is collected by the office of Dean Academic Matters. Once each before
 - MSEs and one before ESE for autonomy programs
 - Percentage of students participating : 85-90 % \
 - Specify the feedback analysis process:

Mid-Semester Feedback:	
Number of Feedback Items:	25
Number of Feedback levels:	4: Theory Specific, Faculty Specific, Practicals, Support Facility and infra-structure
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
Number of Feedback levels:	5: 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

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 comments of the students are discussed with the teachers either by the Dean academic matters 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, if any:

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.

- Number of corrective actions taken in the last three years: 408

The feedback review meeting is conducted twice a year. The teachers with lower feedback are required to attend the meeting. The Principal and Dean (ACAD) discuss the problems and gives advice to the faculty for improving their teaching skills.

Annexure-3

Details of innovations 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 bondages 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. Mid-term 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.

Annexure-4

Best Practices

Details of 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 required 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**