

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)

2017-18



Submitted To

National Assessment and Accreditation Council, Bangalore

Hingna Road, Wanadongri, Nagpur- 441110, Maharashtra

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

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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 principal@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 Coordinator:

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:

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

(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)

1.5 Website address:

www.ycce.edu

Web-link of the AQAR:

http://www.ycce.edu/AQAR2017-18

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)

2017-2018

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 2017-18 submitted to NAAC on 25-09-2018
 iii. AQAR _____ (DD/MM/YYYY)
 iv. AQAR _____ (DD/MM/YYYY)

1.10 Institutional StatusUniversity 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="05"/>
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="15"/>
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="02"/>
	Non-Teaching Staff	<input type="text" value="02"/>	Students	<input type="text" value="02"/>
	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="15"/>	International	<input type="text" value="1"/>	National	<input type="text" value="1"/>	State	<input type="text" value="1"/>	Institution Level	<input type="text" value="12"/>
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(ii) Themes

Multidisciplinary, Research Methodology, Department specific themes

National Project Competition, Pratikruti	
National Conference on Advances in Engineering Technology and Applied Sciences “Spandan”	16-17/03/ 2018
The Kalam Impact Level 2 Faculty Development Program	21-23/06/2018
Workshop on CO-PO Design and Attainment	
HR Conclave 2017	
Vidharbha level Techno-Cultural events ANTAHEEN-17 by Electrical Dept.	18/08/ 2017
Mechfiesta-2017: Student Techno-Cultural festival by ME Dept.	18/08/2017
ICON 17.0 a National Level Technical Fest by Electronics Dept.	18-19/08 2017
'Compufest,' a National level Technical Symposium	17-18/08/2017
Two days National Level Technical Fest “iTECHROOTS 8.0” by IT Dept.	16-17/08/2017
Fest Electric a 17.0 by Electrical Dept.	18-19/08/2017
R&D Cell	
Improving Technical Paper Writing Skills (ITPWS-2018)	17-18/02 & 10/03/ 2018
3 Day Workshop on Patent Drafting	11-13/04/2017
3 Day Workshop on TRIZ	09-11/12/2017
CT	
Guest lecture on Basics of Object Oriented Programming	07/10/2017
Seminar on Personality Development	08/08/2017
Workshop on Internet of things	08-10/08/2017
#HACK	17/08/2017
Workshop on CUDA Programming	21-23/08/2017
Seminar on DROID	17/08/2017
Seminar on Android development	31/07/2017
WEBSTER	18/08/2017
Workshop on Web Technology	09/09/2017
Workshop on Internet of things	08/08/2017
Workshop on How to create your own website and blog using Word Press, by Mr. Shreyash Dubey, Dipak Rangdale, Experts, Wordpress Community	16/08/2017
Seminar on" Importance of software testing" by Sangharatna Godbole, NIT , Rourkela	04/07/2017
Workshop on Graphics designing and photo editing	
Workshop on Research Methodology	07-08/07/2017
Symposium on Role of Department in Carrier Growth	15/07/2017
Seminar on commitment to SMART: (Solution Driven, Meticulous, Accountable, Responsible and Timely) by Dr. Pramod Sutrave, Retired Scientist, America	08/08/2017
Six Days' FDP on "Research Trends in Natural Language Processing", in Association with Jabalpur	10-15/07/2017
Seminar on Mobility-Android by TCS, Nagpur	31/07/2017
Workshop on "How to create your own website and blog using WordPress" by Word Press community	16/07/2017
Guest Lecture on Agile Scrum Methodology for Software Development by Mr. Maulick Shah, Project Lead, TCS	07/08/2017
Guest Lecture: Basics of object oriented programming language, Anuj Jajoo, Pune Regional Head Infosys Campus Connect	10/07/2017
CE	
One Day Workshop on Diamond of Success	05/01/2018
FDP on Design of Water Distribution Network using WaterGEMS Software	05-26/02/2018
STTP on Recent Trends in Civil Engineering & Technology	05-10/03/2018
Training Program on ETABS by Mr. D.G. Agrawal	03-04/05/2018
Training Program on “Presenter in Me”	29-30/06/2017
Workshop on Reinforced Cement Concrete	04/08/2017
Workshop on Health Awareness	28/07/2017
Guest Lecture on Building Information Modeling Solutions by Mr. Abhijit Parasar	31/01/2018
Guest Lecture on Impact of GST, Demonitization & Rera - Future of Real Estate by Mr. Amol Shimpi	30/01/2018

Guest Lecture on Self-Empowerment by Swami Dyangamayanand	12/01/2018
Guest Lecture on Introduction to STAAD Pro by Mr. Hitesh Lahoti	11/01/2018
Guest Lecture on Higher Studies after BE by Mr. Mehak Jhunjhunwala	27/12/2017
Guest Lecture on Project Planning & Management by using Primavera by Mr. Atish Bawankar	22/02/2018
Guest Lecture on Drone Technology by Dr. Priya Ranjan Swarup	23/03/2018
EE	
Basics of MATLAB	23-24/09/2017
Women Entrepreneurship as Career option-WIE Summit	29/08/2017
Digital Signal Processing	01-03/02/2018
Seminar on Introduction to Lab on Chip-Micro fluidics	06/-02/2018
Workshop on Engineer Amidst Machine Learning and Data Science	23-24/03/2018
Android App Development	03-04/02/2018
Seminar on Introduction to Lab on Chip-Microfluidics	06/02/2018
Enhancing of Quality of Question papers	08-10/03/2018
Workshop on Engineer Amidst Machine Learning and Data Science	23-24/03/2018
Best Innovative Practices	26/12/2017
Expert Lecture by Adjunct Faculty	25/01/2018
Guest lecture on "Advanced Embedded Systems	21/02/2018
Guest Lecture on Wireless communication :Wavelet approach"	14/03/2018
Guest Lecture on Bode Plot and Nyquist Plot	22/03/2018
Guest lectures on "Microcontroller 8051"	19-21/03/2018
Guest Lecture on Power reduction in an Embedded system	21/02/2018
IT	
Seminar on "Cyber security and its needs" by Mr. Akshay Bharganwar, CEO, TechEra Security Solutions, Hyderabad	01/31/2018
STTP on "Quantitative Methods of Computer Applications by Dr. K.K.Bhojar	26/06- 01/07/2017
How to improve IT Skills, Dr. Sumant Tekade – Perspective Planning	08/07/2017
Workshop on "Applications of "Internet of things" in Multidisciplinary Domain,by Mr. Nilesh Sahare, CEO, ANV INFOTECH. Pvt. Ltd., Nagpur	05/08/2017
Workshop on "E commerce website Development", by Mr. Anuj Gajbhiye	17/08/.2017
Workshop on "MATLAB for IoT and Data Analytics - Technology Development", by Alka Nair & Alok Bhat, Application Engineer, MathWorks India Hyderabad	23/08/2017
Students Development Programme on "My SQL & Java script", by Mr. S. Chauhan & Mr. K. Hajari	26/08/2017
Workshop on "Android App Development",	25-27/09/2017
Workshop on "Aptitude Development and Logical Reasoning"	30/09-02/10/2017
STTP on "High Performance Computing using Parallel, Distributed and Cloud Computing (HPCPDC2)",	18-23/12/2017
Seminar on "Carrier Opportunity after UG- seminar", by Mr. Mehul Zunzunwala, Director, T.I.M.E., Nagpur	24/08/2017
Seminar on "Software Testing and its need in IT", by, Mr Sikandar Ansari, Persistant system, Nagpur	26/08/2017
Seminar on "Mobile Application and Its uses", by Mr. Pranay Charde, Sr. Software Developer and Module lead, Bizmatic India Pvt. Ltd., Nagpur	23/09/2017
Seminar on "Object Oriented Programming", by Krishna Chandak, IT House, Nagpur	19/12/2017
Seminar on "Software Quality Matrix and Tolls", by, Atique Shaikh, software Engg., Persistent System Pvt. Ltd., Nagpur	29/12/2017
Seminar on "Myths and Facts in IT with Personal experience", by Mr. Nitish	27/09/2017

Sangwai, Sr. Software Engg., Health Prime services India Pvt. Ltd., Mumbai	
Brush up courses before Campus Placement for IT Students	22-29/07/2017 & 05-12/08/2017
ACM Annual Day 2018, in association with VNIT and Persistent Systems Pvt. Ltd.	15-17/02/2018
Workshop on "Introduction to R"	24/02/2018
Workshop on "Introduction to R"	10-12/03/2018
Workshop on "latex"	24/03/2018
FDP on "Firewall"	05/04/2018
Seminar on "Aptitude Development", by Mr. Rishi Chourasia, Director, Vikalp Education	24/01/2018
Seminar on "Cyber security and its needs", by Mr. Akshay Bharganwar, CEO, TechEra Security Solutions, Hyderabad	31/01/2018
Seminar on "Profit, Loss and Discount", by Mr. Manmath Deshpande, Aptitude Development Center, Nagpur	23/01/2018
Guest Lecture on "Decidability and Undecidability", by Dr. S.R.Sathe, Professor, VNIT, Nagpur	05/04/2018
Seminar on "BI Architecture and Future", Mr. Jatin Ghiya, Analyst, Infocept, Nagpur	02/02/2018
International Womens Day Celebration	27/03/2018
Workshop on "Applications of Internet of things in Multidisciplinary Domain"	05/08/2017
Workshop on "MATLAB for IoT and Data Analytics - Technology Development"	23/08/2017
Workshop on "Android App Development"	25-27/09/ 2017
Workshop on "Aptitude Development and Logical Reasoning"	30/09 to 02/10/2017
STTP on "High Performance Computing using Parallel, Distributed and Cloud Computing (HPCPDC2)"	18-23/12/ 2017
EL	
Guest Lecture on "Aptitude Enhancement & Skill development"	30/01/2018
Guest Lecture on "CAREER OPTION AFTER ENGINEERING"	05/01/2018
TECHNO- QUIZ	11/08/2017
Guest lecture on "Best strategic approach for Career in USA"	30/01/2018
VAC on Environmental Studies	19/06/2017 to 10/10/2017
VAC on English Made Easy	12/12/2017 to 05/04/2018
VAC on Programming Language	19/06/2017 to 10/10/2017
One day workshop by NPCIL experts "Awareness on Nuclear Power Engg"	07/08/2017.
Two week FDP on Electric Power System	10-15/07/2017
Two day workshop on Electrical Energy and safety Audit	24-25/11/2017
ME	
VAC on Machine Learning for Manufacturing	19- 24/09/2017
TPM	08/10/2017
Preparation for higher studies	09/15/2017
Entrepreneurship Development	09/22/2017
How to Excel in Engg.	09/01/2017
VAC on Workshop on Modeling and Simulation	15-20/12/2017
Workshop on Ansys	28-31/07/2017
Workshop on Scilab	29/07/2017
Workshop on Python	05/08/2017

Workshop on FEA analysis using 18.0	28-29/07/2017
Guest lecture on Fuel cell analysis by Dr Naveen Shrivastava ,BITS Pilani dubai	04/08/2017
Guest lecture on application and utility of Jig and fixtures for core manufacturing Industry by Dr Nitinkumat Lautre, Asst Prof VNIT Nagpur,	23/08/2017
One day Seminar on TPM by Er D P Sarma, President NSSL, Nagpur.	10/08/2017
Seminar on "Preperation for higher studies " by Mr. Suresh Chopade, Director CAD/CAM Guru	15/09/2017
Seminar on "Entrepreneurship Development" by Mr. Aashish taywade, Member of MAIDC	22/09/2017
Seminar on "How to Excel in Engg.” Er. Likhith Agrawal & Er. Waghmare, Capgemini, Alumini	01/09/2017
Guest Lecturer on Opportunities of Higher Study in Aerodynamics by Ms. Dhanashri Thosar,	22/12/2017
Guest Lecturer on Awareness of software’s used in Mechanical Industries by Mr. Vikrant Gupta	20/02/2018
Guest Lecturer on Robotics Awareness and its Future Scope by Dr Anil Tatode	22/02/2018
Workshop on FEA analysis using 18.0 by Er. Gokul Raj ENTUPLE Tech. Bangalore	28-29/07/2017
ETC	
IEEE Extreme: International Online Coding Competition held at ET & EE YCCE under IEEE	14-15/10/2017
One day IEEE WIE Summit	29/08/2017
One day Workshop on "ROBOTICS"	08/07/2017
Organized Workshop On BLUETOOTH CONTROL BOT Mr. Shrikant Bhandarkar, (Director) / Mr. Niket Shankar Malusare, (Director) ; ELECTUS TECHNOLOGIES PRIVATE LIMITED,NAGPUR	08/05/2017
Workshop Series On VLSI And Embedded System	05/06/2017
Guest Lecture on Do's & Don'ts In Engineering	05/05/2017
Guest lecture by Alumni on Campus Recruitment Guidance	10/08/2017
Expert Lecture Talk on Embedded System and VLSI Technology	08/11 to 08/12/2017
Two Days Workshop on “Basic in MATLAB”	12-13/08/2017
Matlab Workshop Wingfotech Excellence In Association With IIT Kharagpur	18-19/08/2017
Expert Lecture Series on Signals and Systems Under Visiting Professor Scheme (Dr. Vivek Kanhangad, Asso. Professor, IIT Indore)	13-15/09/2017
MATLAB: Concepts And Programming Under IEEE Students Branch YCCE	23-24/09/2017
Workshop on Antenna Design & Simulation Using EM Simulation Tool.	23-24/09/2017
ISTE approved Two days’ workshop on "PCB Designing"	23-24/09/2017
Two days’ workshop on "Display Technology Course"	12-13/10/2017
Three Days Workshop On “DSP Using FPGA”	15-17/ 12/2017
First Year Dept. (Chemistry, Physics, Maths & Hum.)	
GL: Boiler water Treatment, Dr. S. Bagchi Deputy Manager & Head , Dept. of Chemistry, VIPL, Reliance Power Butibori, Nagpur	16/11/2017
GL: Chasing Excellence, Prof Sumant Tekade, Motivational speaker	11/08/2017
Guest lecture on ‘Semiconductor and its Applications ’Dr.B.R. Sankpal, Head of Physics Dept, VNIT, Nagpur	08/11/2017

2.14 Significant Activities and contributions made by IQAC

- Granted authorized Business Incubator Centre by MSME, New Delhi under the scheme of “Support for Entrepreneur & Managerial Development SMEs through Incubator” in Dec.-2017.

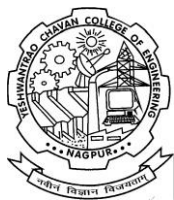
- Nodal Centre for conducting 'Smart India Hackathon-2018' an initiative of Govt. of India, through AICTE, New Delhi during 30-31 March, 2018.
- A special Orientation programme for parents of newly admitted students in BE programme is organized on 11 Aug,2017
- AAROHAN -2017" Induction Program for First Year BE Students was organized on 18th August-2017.
- 4th Graduation Ceremony Programme on 13th January, 2018.
- Organized a Silver Jubilee Alumni Meet of 1992 passed out batch on Saturday 23rd December 2017
- 2 UG programmes i.e. Electronics Engineering & Information Technology & 3 PG programmes i.e. Structural Engineering, CAD/CAM & Integrated Power System are accredited for 3 and 2 years respectively vide NBA Letter 28-194-2010-NBA dated 11.06.2018
- The s ACM India Annual Event 2018, a flagship event of ACM India, was held on 15th February, 2018.
- Faculty member of Department of Mechanical Engineering is sent for Two Month Industrial Sabbatical training at Grind Master Ltd., Aurangabad.
- N I R F ranking of the YCCE in the range of 101 to 150
- Campus Recruitment Training (CRT) program which resulted into 536+ placements
- Academic Audit: Departmental Level Assessment (DLA)
- Ensuring the implementation of MGI Group Level Quality Enhancement Initiatives
- Interaction of the management with the Faculty, Support Staff & Students
- Implementation of Best Practice at Institute and Departmental Level
- Ensuring the implementation of Innovative Practices in Teaching Learning
- Ensuring Quality of Faculty & Student Publications
- Submission of research proposals to various govt. funding schemes as well as MGI Minor/Major Project funding scheme
- Increase usage of ICT in TLP
- Extension & Social Responsibility Activities by the various DQAC"s & Student Forums.

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 **2017-18**

Action Plan 2017-18 & Outcomes

Parameters		Outcomes/ Actions Taken/
Quality Assessment & Accreditation	NBA Accreditation of PG/UG Programs	NBA granted accreditation to 2 UG Programs for 3 Years & 3 PG Programs for 2 years
	NIRF Ranking	NIRF ranking in the range of 101 to 150.
	Review of Vision, Mission of Institute/ Departments, PEO/PO's	New Vision & Mission of Institute & Departments are finalized and disseminated. PSO's for UG programs are defined. by all the departments
	Workshops on OBE	04 Workshops were organized on Formation & Attainment of Course & Program Outcomes
	Implementation of MGI group level initiatives	DLA, CRT, VPS, TiE, PQAI Mentor-Mentee Scheme, Project Mentors etc. are implemented
		Administrative Audit by External as well as Internal agencies is carried out.
Perspective Plans for the departments were presented by HoD's		
T-L & Innovative Methods/Best Practices	Total Teaching days & Average students' attendance percentage	Total Teaching days = 150 , Avg. students' attendance = 78%
	Innovative Methods in T-L	Departments are practicing various Innovative methods. Code relay, Programmers club, Open Book test, Think pair share, Flipped class room, On line practical submissions, etc.
		MOOC Courses are offered. CE: Concrete Technology; ME: Tribology; CT: Privacy and Security in Online Social Networks IT: Distributed Systems
		Online Exam. for Teacher Assessment Marks



Nagar Yuwak Shikshan Sanstha's

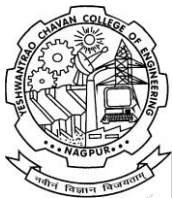
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Ph.: 07104-242919, 242623, Fax 07104-242376, Website: www.ycce.edu

R & D Activities	Organization of Conference	National Conference: 01 International Conference:01
	Thrust Areas Specific Activities: Lab. Development, Publications, Proposals, STTPS/ SDP/ Training	Total budget for R & D activities: 110.76 Lakh; (Funding Agency=26.02 Lakh, College: 84.74 Lakh) Increase in Research Centre Admission Intake
	Proposals to various funding agencies	Funded Major Projects: 02 (Completed) Rs. 33.91 Lakh, 08 (On-going) Rs. 153.44 Lakh 28 (Submitted) Rs. 1390.71 Lakh In-House Funding Proposals: 45 (Sanctioned); Rs.15.03 Lakh Patents applied: 16 Copyrights received:199
Faculty Development & Participation	Internal Promotion Scheme for Faculty & Support staff	In process (Applications are submitted by faculty members)
	Participation of Faculty in STTP/FDP /Workshops	267 Faculty Members attended Conference/STTP/Workshops, 166 Faculty members are provided financial support.
	Faculty Contributions	223+57 Papers are published by Faculty members. 773 papers are published in Scopus Journals till date. h-index = 33; Impact Factor Range= 0.8 to 9.78
		72 Faculty Members Served as Experts/Resource Persons in various events in other institutions.
		Books Published : 01 (with ISBN), 04 (without ISBN) Book Chapters Published : 6
		59.78 Lakh Revenue is generated through consultancy 72 PhD qualified Faculty members are in the institution, 09 Added. 33 PhD Supervisor; 70 PhD Scholars are registered under them 29 Development programs are organized for support staff



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Student Development & Performance	Organization of various Student development activities under Professional Society Chapters & CRT	08 Professional Society Student Chapters are organizing various student development activities 06 Programmes are conducted for Career Guidance, Training, Placements by T & P Cell 20 Expert Lectures for Competitive Exam. through GATE Clubs are conducted
	Development of e-Resources/Learning Material	DTEL materials, Question Banks are prepared.
	Student Performance	778 Students are placed in MNC's through campus & 03 through off campus placement. 74 Students qualified in competitive exams. • 100% result of PG programs. UG ESE results are: CE : 93.95%; ME: 80.28%; EL : 88.52%; EE: 91.41%; ETC : 87.75%; CT: 89.73%; IT : 95.52%
Institute-Industry Interaction		No. of Students Qualified in the Competitive Exams (GATE/CAT etc.) = 52
	Industry Experts involvement in development activities	Industry Experts are Co-guides for UG/PG Projects, Resource Person for FDP/STTP, and Participation in CDW/BoS/AC
	Industry Linkages through Industrial Tours/Visits etc.	42 Final Year IT students has attended semester long Industry Internship.
		04 PG student's of mechanical dept. has attended 6 month internship in the industries.
		82 Industrial visits are organized for students by the departments.
	Mechanical Dept. established Industry supported lab in collaboration with M/S Minar Hydrosystems Pvt. Ltd.	
Industry Aligned & Open Elective Courses	Industry Aligned Courses: IT: BI (InfoCepts Pvt. Ltd.); CT: Cyber Forensics (Prevoynce Technologies); BI (Infosys); MOS (Globallogic); GIS (6 Simplex Solutions	

Interaction with Stakeholders	Interaction of management with the Students, Faculty, Support Staff	The management members interacted with students/Staff. The necessary actions are taken based
	Alumni Meet, Parent Teacher Meet, Employer Meet	Silver Jubilee alumni meet for 1988-1992 batch was organized
		Departments are also organizing alumni meets Every department has conducted 2 Parent Teacher meets
Infrastructure & Resource Development	Increase in infrastructure facility	Class Rooms Added: Nil Added Classrooms with LCD & wi-fi facilities:06 Major Equipment's (> Rs. 1 Lakh) Purchased: 25 No. of Computers Added: 90
	Resource Development	Text Books Added: 6029, e-Journals Added: 1071
Extension Activities & Initiatives for Eco-Friendly Campus	Extension Activities	<ul style="list-style-type: none"> • Note book distribution • Workshop on Self-defence Techniques for Women • Swachchata Abhiyaan • Nirmalya Sankalan • Traffic controlling/awareness at various squares of Nagpur in collaboration with Jan Aakrosh • Blood Donation Camps • Health check-up camp for people of the nearby villages • Visits to orphanages and old age homes • SHRAMADAN and awareness camp for conservation of water • 300+ students participated in various <ul style="list-style-type: none"> • sports activities
	Solar Energy/Water Harvesting Automation of academic processes	<ul style="list-style-type: none"> • Solar Energy Panels are installed on 5 building roofs • Rain water harvesting is done in CoE building • Automation of Academic Processes is done (TV Displays, MIS, Student Attendance through SMS etc.) • Tree Plantation

* Attach the Academic Calendar (2017-18) of the year as Annexure. See Annexure

2.16 Whether the AQAR was placed in statutory body: Yes

No

Management

Syndicate

Any other body

Academic Council

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	06	NIL	06	NIL
PG	09	NIL	09	NIL
UG	07	NIL	07	NIL
PG Diploma	NIL	NIL		
Advanced Diploma	NIL	NIL		
Diploma	NIL	NIL		
Certificate	NIL	NIL		
Others	NIL	NIL		
Total	22	NIL	22	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
- ✓ Semester long project in industry for IT students

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	All
Trimester	
Annual	

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

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

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

Revision of SoE as per AICTE guidelines and syllabus revision is done by the BoS in their discipline as needed.
Industry Aligned Professional Elective Courses are added.
Grace of maximum 3 marks for maximum 2 courses is implemented provided that the student passes the semester
New Text/Reference books are included in some courses.

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
300	225	46	29	--

2.2 No. of permanent faculty with **Ph.D. 72**

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
41	00	00	00	00	00	00	00	41	00

2.4 No. of Guest and Visiting faculty and Temporary faculty

--

	--	02
--	----	-----------

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	92	111	23
Presented papers	138	60	01
Resource Persons	03	32	37

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

Innovative Methods Adopted by the departments in Teaching & Learning	
CT	One minute paper Concept Map, Role play, Industry Aligned Courses, Self-Video Lecture, Collage Making
CE	Field Training on layout & Construction activities
EE	Live Demonstration and Simulations, Animated Presentations Online submission of practical, Chart Making on concepts
ME	Industry Internship for PG Students, Demonstration using Models and Simulations, Peer-Teaching, Industrial Live Projects
EL	Presentation by students on Topics, Circuits on bread boards, Quiz
ETC	Flip Class Room , Mini-Projects to II year students, On line submission of Practical Records, On-line Tests
IT	Code war, Peer-Teaching, Flipped Classroom, Open Book Test, Semester long industry Internship, Industry Aligned Courses
First Year	What's app group, Chart Making Competition, Help Desk Videos Lectures

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

150

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.
- MOOCS based Courses are offered by the departments.
Civil Engg.:Concrete Technology, Mechanical Engg.:Tribology,
Computer Technology: Privacy and Security in Online Social Networks-Theory,
ETC: Display Technology, Information Technology: Distributed Systems

Percentage of student complaints/grievances about evaluation in the examinations during the year is 3.74%

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop: 300

300

2.10 Average percentage of attendance of students

78%

2.11 Course/Programme wise distribution of pass percentage:

Program wise Distribution of Pass Percentage						
UG : B.E. Final Year Result (2017-2018)						
Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.E. Civil	215	63.37	36.63	0.00	--	93.95
B.E. Mechanical	218	52.57	46.86	0.57	--	80.28
B.E. Electrical	209	35.68	64.32	0.00	--	88.52
B.E. Electronics	128	38.46	61.54	0.00	--	91.41
B.E. ETC	204	42.46	56.98	0.56	--	87.75
B.E. Comp. Tech	146	28.24	69.47	2.29	--	89.73
B.E. Info. Tech.	67	51.56	43.75	4.68	--	95.52

PG: M. Tech. Final Year Result (2017-2018)						
Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
M.Tech. (Structure)	17	100				100
M.Tech(Environment)	05	100				100
M.Tech (CSE-Shift-I+ Shift-II)	15	86.67	13.33			100
M.Tech (Electronics)	10	100				100
M.Tech.(VLSI Design Shift- I+II)	17	100				100
M.Tech.(CAD/CAM)	14	100				100
M.Tech. (Production)	07	100				100
M.Tech. (Communication)	08	100				100
M.Tech. (IPS)	14	100				100

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
- Effective implementation of Mentor-Mentee (Faculty Advisor) Scheme

2.13 Initiatives undertaken towards faculty development:

Faculty / Staff Development Program	Number of faculty benefitted
Refresher courses	07
UGC- Faculty Improvement Program	22
HRD program	18
Orientation program	17
Faculty exchange program	00
Staff training conducted by the university	09
Staff training conducted by other institutions	65
Summer / Winter schools, Workshops, etc.	105
Others	02

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	96	29	04	25
Technical Staff	62	66	09	57

Criterion – III

3. Research, Consultancy and Extension

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

1. New in-house funding schemes			
The R&D Cell launched schemes for in-house funding, details of proposals recommended and amount sanctioned is given below:			
	Scheme	No. of Proposals Sanctioned	Amount Recommended (Rs. Lakh)
	Inhouse Minor Project scheme	9	6.56
	Innovative UG/PG project scheme	21	4.75
	Innovative Minor patentable product scheme	04	0.38
	Innovative experimental setup development scheme	11	3.34
2. Short Term Training Programme on “Improving Paper Writing Skills”			
The R&D Cell organized Short Term Training Programme on “Improving Paper Writing Skills”			
An assignment based programme on three Saturdays, 66 participants from the college and sister institutions attended the programme.			
3. Guidance for funding proposal submission to various agencies			
The R&D Cell identifies important funding schemes, sets targets and guides faculty in drafting and submission of funding proposals to various funding agencies.			
Details of Funding proposals submitted is given below:			
		Sub	Sub Amt (Rs. Lakh)
AICTE	RPS	1	24.48
	MODROBS	3	57.92
	FDP	2	14.00
	STTP	5	25.00
	Prerna	1	10.00
AIC	Incubation Centre	1	1000.00
SERB	Core Research	9	180.76
	Seminar	1	0.50
	Empowerment	1	18.88
	MATRICES	1	
RGSTC	Research	1	28.00
MEITY	Research	2	31.17
MNRE	RD&D	0	0.00
Total		28	1390.71

1. Awareness about Research Methodology
2. Awareness about Quantitative Methods of Computer Applications
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	02	8	Nil	31
Outlay in Rs. Lakhs	33.91	153.89	0.00	2209.83

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	28	23	14
Outlay in Rs. Lakhs	0	7.69	7.12	40.93

3.4 Details on research publications

	International	National	Others
Peer Review Journals	70	0	0
Non-Peer Review Journals	41	0	0
e-Journals	18	0	0
Conference proceedings	137	55	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 organisations

Research funds sanctioned and received from various agencies, industry and other organisations				
Nature of the Project (2017-18)	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects	3 Years	MSME (ASPIRE)	30 Lakh	15 Lakh
Minor Projects	1 Yr	SERM (Seminar)	0.50 Lakh	0.50 Lakh
Interdisciplinary Projects				
Industry sponsored Projects				
Projects sponsored by the University/ College	1-1/2 Years	NYSS(Inhouse Minor Research Project 9 Projects)	6.56 Lakh	6.56 Lakh
	1 Yr	NYSS (Inhouse Innovative UG/PG Projects, 19 Projects)	4.30 Lakh	4.30 Lakh
	1 Yr	NYSS (Inhouse Minor Patentable Products, 4 Projects))	0.38 Lakh	0.38 Lakh
	1 Yr	NYSS (Inhouse Innovative Experimental Setup, 11 Projects)	3.34 Lakh	3.34 Lakh
	1 Yr	Funds for UG/PG Projects (86 Projects)	19.26 Lakh	19.26 Lakh
Students Research Projects (other than compulsory by the College)				
International Projects				
Any other(Specify)				
Total			64.35 Lakh	49.35 Lakh

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

01

Chapters in Edited Books

06

ii) Without ISBN No.

03

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

3.11 No. of conferences
 organized by the Institution

Level	International	National	State	University	College
Number	0	2	0	0	0
Sponsoring agencies		IEEE Chapter & College			

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

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From Funding agency From Management of University/College

3.16 No. of patents received this year

Type of Patent	Number	
National	Applied	13
	Granted	0
International	Applied	0
	Granted	0
Commercialized	Applied	3
	Granted	0

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
6	0	3	1	2	0	0

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

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

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: 3954

University level State level
National level International level

3.22 No. of students participated in NCC events: NIL

University level State level
National level International level

3.23 No. of Awards won in NSS: 10

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: 30

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

- Nirmalya Collection
- Books Donation Camp on 04th Aug 2017
- Grocery Donation Camp on 04th Aug 2017
- Friendship Day Celebration 06 Aug. 2017
- Tree Plantation Sept. 2017
- Engineers Day
- Teachers Day
- Visit to Maatoshri Vriddhashram
- Visit to old age home at Dhapewada
- Blood Donation Camp (Aayush Blood Bank)
- Cloth Donation Camp
- Makar Sankranti Celebration Programme
- Old age home visit
- Swachha Bharat Abhiyan
- Traffic awareness and safety programme in various squares of Nagpur in collaboration with Jan Aakrosh
- Clean the campus drive
- Visit to Sanjivani Vriddhashram
- Donation of clothes, books to orphanage
- Women's Day Celebration
- Guest Lecture on Human Values of Swami Vivekanand and their utility in today's era
- Workshop on Girls' safety and Self Defence for girls Students
- SHRAMADAN and awareness camp for conservation of water
- Health check-up camp for the needy people of the nearby villages

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

2017-18			
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	61	Nil	61
Laboratories	97	Nil	97
Seminar Halls	07	Nil	07
Classrooms with LCD facilities	24	06	30
Classrooms with Wi-Fi/ LAN	24	06	30
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.		25	
Value of the equipment purchased during the year (Rs. in Lakhs)	2332.34 L	150.85 L	2483.19 L
Others	--	--	--

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.
- Web OPAC (Online Public Access Catalog) facility is made available to know the bibliographical details about the collection in the library.
- CCTV cameras are installed in the library for strict surveillance

4.3 Library services:

Library Services:						
	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	86427	29671347.92	6029	1713216.60	92456	31384564.52
Reference Books	12788	7379190.94	359	44347.40	13147	7423538.34
e-Books	9765	856157.00	---	---	9765	856157.00
Print Journals	180	3031009.35	180	227369.00	180	3258378.35
e-Journals	609	16509318.00	1071	1140174.00	1071	17649492.00
Digital Database	---	--	---	---	---	---
CD & Video	1300	859687.24	---	---	1300	859687.24
Library automation	---	---	---	---	---	---
Weeding (Hard & Soft)	4333	602337.87	---	---	4333	602337.87
Others (specify)	---	---	---	---	---	---

4.4 Technology up gradation (overall)

2017-18									
Technology Upgradation (overall)									
	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MBPS)	Others
Existing	1912	42	34	95	80	115	1588	40 Mbps	
Added	90	2	06	44	0	10	30	52	
Total	2002	44	40	139	80	125	1618	92	

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.
- ✓ Up gradation program was organized by CCC on configuration & maintenance of firewall
- ✓ 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

4.6 Amount spent on maintenance in lakhs: Total: 1649.60/-

- ICT: --
- Campus Infrastructure and facilities: **1649.60/-**
- Equipment's : --
- Others : --

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 includes details of available Student Support Services
 - ✓ 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 won 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: 4730 +PG: 197=Total=4909**

(b) No. of students outside the state

(c) No. of international students: Nil

	This Year 2016-17						This Year 2017-18					
	General	SC	ST	OBC, VJ, NT, SBC	Physically Challenged	Total	General	SC	ST	OBC VJ, NT,SBC	Physically Challenged	Total
UG	1344	644	164	2599	32	4751	1955	628	147	2000	28	4730
PG	80	55	0	173	0	308	46	39	0	94	0	179

2017-18: Dropout % 2.73% (134 students)

5.3 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

134

5.4 No. of students qualified in these examinations: **74**

NET

--

SET/SLET

--

GATE

52

CAT

IAS/IPS etc.

--

State PSC

--

UPSC

Others: **22**

5.5 Details of student counseling and career guidance

No. of students benefitted

800+

- ✓ 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.

Student Career Guidance: TPO Activities (2017-18)

- ✓ Campus Recruitment Training was conducted from 25, May 2018 to 15, June 2018 of 80 hours for seventh semester students. The training was provided by industry experts hired by ADCC Academy. The CRT emphasizes on Quantitative Techniques, Logical & English. Sessions of Group Discussion, Presentation Skills etc. The training was given to 1259 students of all UG branches.
- ✓ Mock Interviews by experts from corporate & industry were conducted from 01, August 2017 to 10, August 2017. The student is evaluated on the basis of Personality Traits, Communication/Lingual Abilities, General Knowledge and Current Affairs, Learning Aptitude/Inquisitiveness, Team Orientation and Resourcefulness. The copy of evaluation sheet is handed over to the respective student for his own analysis.
- ✓ Campus Orientation session by Dr. Sachin Untawale, Director (Placement) MGI and Prof. Mahesh Pawar, Director (Training) MGI was conducted for each branch from 13, February 2018 to 18, February 2018. Students were made aware about the process of campus interview, company expectations from a fresher, skill set required, dos & don't during campus recruitment drive etc.
- ✓ "Campus Interview and its Preparation" a seminar by Mr. Satyajit Mitra, Manager – HR, Infocepts Technologies Pvt. Ltd. was conducted on 03, April 2018. Students from ETC/EE/CT/IT branches participated.
- ✓ TCS Codevita contest awareness programme on 28, June 2018 was conducted on by Mr. Shakti Nandan from Tata Consultancy Services Ltd., Mumbai. The programme was to spread awareness about importance of Coding in IT industry and to participate in there CODING Contest. Top 1500 ranked students are given employment offer by TCS. Around 700 students of all UG branches attended the event.
- ✓ The TATA CRUCIBLE CAMPUS QUIZ 14, edition of the quiz contest was organized on 20, February 2018 for all students of all the branches. Around 900 students attended the programme. Tata Crucible Campus Quiz, is a knowledge initiative by the Tata group and is India's largest and highest rated business quiz for college students. The Tata group has been organizing the Tata Crucible Business Quiz, annually for corporate and campus students, to ignite young minds to think out of the box and engage them in a highly enriching and enthralling battle of wits.

- Guest lecture on "Profit, Loss and Discount" by devic maths Guidance in Higher Education
- Aptitude Development Seminar by Mr. Rishi Chourasia, Director, Vikalp Education
- GATE Guidance in Campus recruitment Training
- Orientation program for Campus placement
- Symposium on: Role of Department in Career
- Guest Lecture on Preparation for higher studies
- Guest Lecture on Entrepreneurship Development
- Guest Lecture on "How to Excel in Engg."
- Guest Lecture on Higher Studies after BE
- Guest Lecture on "Career Option After Engineering"
- Guest lecture on "Best strategic approach for Career in USA"

5.6 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
53	802	778	3

5.7 Details of gender sensitization programmes: 03 Programs

- Women's Day Celebration
- Guest Lecture on Human Values of Swami Vivekanand and their utility in today's era
- Workshop on Girls' safety and Self Defense for girls Students

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 (in Lakhs)
Financial support from institution	2012	183.91
Financial support from government	2800	229157890.5
Financial support from other sources	0	0
Number of students who received International/ National recognitions		

5.11 Student organised / initiatives

Fairs	: State/ University level	<input type="text" value="--"/>	National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>
Exhibition:	State/ University level	<input type="text" value="--"/>	National level	<input type="text" value="3"/>	International level	<input type="text" value="--"/>

5.12 No. of social initiatives undertaken by the students

09

Extension Activities and Social Responsibility

Major Extension Activities and Social Responsibility	
CT	Visit to Sai Ashram Personal Health and Hygiene Awareness drive in Hingna Villages Cloth Donation Camp Save water, electricity and paper
IT	Blood Donation Camp, Cloth Donation Camp, Women's Day Program
CE	Save electricity, save papers, save water Tree Plantation
ME	Reduce, Reuse and Recycle policy Green measure (Save Water & Paper) Blood Donation Camp
EE	Swatch Bharat Abhiyan Blood donation Camp Visit to old age Home Tree Plantation
EL	Nirmalya Collection at Futala during Ganesh Visarjan
ETC	Tree Plantation Orphanage Visit, Blood Donation Camp
First Year	Promote e-communication (e-mails, MIS, SMS)

Student Activity In-charge also organized:

1. Note book distribution to needy students
2. Swachchata Abhiyaan
3. Nirmalya (Flower Waste from the Idols of Lord Ganesha) Sankalan
4. Tree Plantation
5. Traffic controlling and awareness in various squares of Nagpur in collaboration with Jan Aakrosh
6. Blood Donation Camps
7. Health check-up camp for the needy people of the nearby villages
8. Visits to orphanages and old age homes
9. „SHRAMADAN“ and awareness camp for conservation of water

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 the most preferred institution providing innovative, research and value based, professional education for the society at large

OUR MISSION

YCCE is committed to:

- Attract best talent and create learning ambience
- Practice Innovative teaching-learning & research
- Integrate Industry-Institute Collaborations
- Nurture students towards holistic Development and choicest career

6.2 Does the Institution has a management Information System:

YES,

Management Information System developed by Mastersoft ERP Solutions is a governance ERP system at YCCE.

A comprehensive module based system which enables the functioning, governance and management of diverse education related activities of the institute. The modules integrate issues related with academics, non-academics, analysis and report generation.

The modular design enables the various academic to be handled as independent modules. Academics module implements Students admissions details, Class Engagement Details, Attendance Monitoring, Semester Examination details, Continuous evaluation of Lab Courses. MOODLE for sharing e-resources (T-L Materials-notes, ppts etc.), Handouts, Assignments, Announcements and on-line test is available.

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

Quality Policy: YCCE strives for excellence through continual improvement in teaching, learning, training and research.

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 are 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 RRMCM 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 classrooms, 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 faculty 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
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 staff 4. Financial support for attending training programs/workshops 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 staff 8. Effective appraisal system to assess the performance of staff
Students:	<ol style="list-style-type: none"> 1. Insurance Scheme for all the students 2. 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 Students 6. 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 1988-1992 Batch

6.12 Activities and support from the Parent – Teacher Association:

- Parent – Teacher meets are organized in Odd as well as Even semesters every year
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:

SN	Name of	Date	Participants
1	Basic Programming Skills	6.4.2017	10
2	Fire and Safety Training Mock Drill	22.4.2017	13
3	Elevators & Escalators Safety Awareness	17.6.2017	10
4	Traffic Rules, Safety and Maintenance of	22.7.2017	10
5	Open Source S Software's	31.7.2017	12
6	Seminar on Hypnotism	14.8.2017	81
7	Effective Monitoring of CCTV Cameras	23.8.2017	21
8	Effective Communication Skills	9.9.2017	43
9	Effective Communication Skills	16.9.2017	43
10	Stress Management	16.9.2017	4
11	Water Analysis	25.10.2017	7
12	Best Practices of Stores	06.11.2017	1
13	Basic Computer Training	15-16.12.2017	20
14	Legal action in case of complaint regarding Sexual	23.12.2017	80
15	Advanced Computer Training in Excel	29-30.12.2017	10
16	How to verify bills of Contractual Agencies	18.01.2018	3
17	Geotech Lab	17.01.2018	6
18	Training on Matlab	20.01.2018	2
19	Parenting skills in 21 st Century	12.02.2018	20
20	Educational Institutes for Statement of Financial Transaction	21.02.2018	2

21	Changing Roles and Challenges Faced Library Professionals in 21 st Century	05.03.2018	5
22	Improving Interpersonal Skills at Workplace	10.03.2018	5
23	Time Management	31.03.2018	10
24	Firewall and Network Security	5.4.2018	12
25	Fire Evacuation & Mock Drill	21.4.2018	31
26	Basic of TDS & Income Tax	29.5.2018	4
27	TUCB's Insta Pay	30.5.2018	20
28	How to check PF online	30.6.2018	Contractual workmen
29	How to submit claim under Pradhan Mantri Rojgar Protsanhan Yojna (PMRPY)	3.7.2018	3

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 water harvesting system,
- Electronic display boards,
- Communication through emails,
- Energy efficient lighting – LED lights that consume less power
- Tree plantation



Nagar Yuwak Shikshan Sanstha's

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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. **Annexure 3**

Academic Innovations: **Visiting Professors, Moodle based Departmental Website, Financial Assistance to UG/PG Projects, MOOCS Courses, Online Teaching of Engineering Graphics**

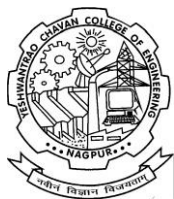
- Review Mechanisms: **Departmental Perspective Plan Presentations, Department Level Audits, Online Feedback**
- Faculty Development: **Induction Programmes, Mentor – Mentee schemes, Annual Workload Plan**
- Development of Students: **PG Mentor Scheme, Campus Recruitment Training (CRT), Industry aligned Professional Electives, Industrial Tours & Industrial Visits**
- Research & Development: **Mentoring for Funding Proposal Submission**
- Supporting Staff: **Best Employee Award, Family Picnics**

7.2 Provide the **Action Taken Report (ATR)** based on the plan of action decided upon at the beginning of the year **2017-18**



Action Plan 2017-18 Outcomes & Action Taken

Parameters	Outcomes/ Actions Taken/	
Quality Assessment & Accreditation	NBA Accreditation of PG/UG Programs	NBA granted accreditation to 2 UG Programs for 3 Years & 3 PG Programs for 2 years
	NIRF Ranking	NIRF ranking in the range of 101 to 150.
	Review of Vision, Mission of Institute/ Departments, PEO/PO's	New Vision & Mission of Institute & Departments are finalized and disseminated. PSO's for UG programs are defined by all the departments
	Workshops on OBE	04 Workshops were organized on Formation & Attainment of Course & Program Outcomes
	Implementation of MGI group level initiatives	DLA, CRT, VPS, TiE, PQAI Mentor-Mentee Scheme, Project Mentors etc. are implemented Administrative Audit by External as well as Internal agencies is carried out. Perspective Plans for the departments were presented by HoD's
T-L & Innovative Methods/Best Practices	Total Teaching days & Average students attendance percentage	Total Teaching days = 150 , Avg. students attendance = 78%
	Innovative Methods in T-L	Departments are practicing various Innovative methods. Code relay, Programmers club, Open Book test, Think pair share, Flipped class room, On line practical submissions, etc.
		MOOC Courses are offered. CE: Concrete Technology; ME: Tribology; CT: Privacy and Security in Online Social Networks IT: Distributed Systems Online Exam. for Teacher Assessment Marks



Nagar Yuwak Shikshan Sanstha's

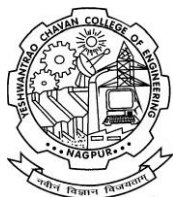
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R & D Activities	Organization of Conference	National Conference: 01 International Conference:01
	Thrust Areas Specific Activities: Lab. Development, Publications, Proposals, STTPS/ SDP/ Training	Total budget for R & D activities: 110.76 Lakh; (Funding Agency=26.02 Lakh, College: 84.74 Lakh)
	Proposals to various funding agencies	Increase in Research Centre Admission Intake
		Funded Major Projects: 02 (Completed) Rs.33.91 Lakh, 08 (On-going) Rs.153.44Lakh 28 (Submitted) Rs.1390.71 Lakh
Faculty Development & Participation	Internal Promotion Scheme for Faculty & Support staff	In process (Applications are submitted by faculty members)
	Participation of Faculty in STTP/FDP /Workshops	267 Faculty Members attended Conference/STTP/Workshops, 166 Faculty members are provided financial support.
	Faculty Contributions	223+57 Papers are published by Faculty members. 773 papers are published in Scopus Journals till date. h-index = 33; Impact Factor Range= 0.8 to 9.78
		72 Faculty Members Served as Experts/Resource Persons in various events in other institutions.
		Books Published : 01 (with ISBN), 04 (without ISBN)
		Book Chapters Published : 6
		59.78 Lakh Revenue is generated through consultancy
	72 PhD qualified Faculty members are in the institution, 09 Added. 33 PhD Supervisor; 70 PhD Scholars are registered under them	



		<ul style="list-style-type: none"> ✓ 29 Development programs are organized for support staff
Student Development & Performance	Organization of various Student development activities under Professional Society Chapters & CRT	08 Professional Society Student Chapters are organizing various student development activities 06 Programmes are conducted for Career Guidance, Training, Placements by T & P Cell 20 Expert Lectures for Competitive Exam. through GATE Clubs are conducted
	Development of e-Resources/Learning Material	DTEL materials, Question Banks are prepared.
	Student Performance	778 Students are placed in MNC's through campus & 03 through off campus placement. 74 Students qualified in competitive exams.
		<ul style="list-style-type: none"> ✓ 100% result of PG programs. UG ESE results are: CE : 93.95%; ME: 80.28%; EL : 88.52%; EE: 91.41%; ETC : 87.75%; CT: 89.73%; IT : 95.52%
Institute-Industry Interaction	Industry Experts involvement in development activities	No. of Students Qualified in the Competitive Exams (GATE/CAT etc.) = 52 Industry Experts are Co-guides for UG/PG Projects, Resource Person for FDP/STTP, and Participation in CDW/BoS/AC
	Industry Linkages through Industrial Tours/Visits etc.	42 Final Year IT students has attended semester long Industry Internship. 04 PG student's of mechanical dept. has attended 6 month internship in the industries.
		82 Industrial visits are organized for students by the departments.



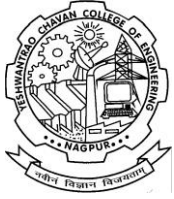
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	Mechanical Dept. established Industry supported lab in collaboration with M/S Minar Hydrosystems Pvt. Ltd.
Industry Aligned & Open Elective Courses	Industry Aligned Courses: IT: BI (InfoCepts Pvt. Ltd.); CT: Cyber Forensics (Prevoynce Technologies); BI (Infosys); MOS (Globallogic); GIS (6 Simplex

Actionable Points	Action Taken
• Submission of SAR for Accreditation of PG/UG Programs	• SAR submitted to NBA & Expert Committee • visited the college, Result awaited.
• Review of Vision, Mission of Institute/Departments, PEO/PO's	• Vision & Mission of Institute & Departments are revised. • PSO's for UG programs are defined by all the departments
• Implementation of Quality initiatives	• DLA, CRT, VPS, TiE, PQAI, Mentor-Mentee Scheme, Project Mentors etc. are implemented
• Implementation of Innovative methods in T-L and its availability on department/ institute website	• Innovative methods details are made available on each department's web Moodle
• Research activities awareness through research portal	• Research activities are made available on the research portal.
• Ensure Quality of publications	• AWL Paper publication Targets in reputed journals and conferences as per NAAC/NBA requirements are given to the departments.



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7.3 Give two Best Practices of the institution:

Academic Enhancement and Monitoring Practice

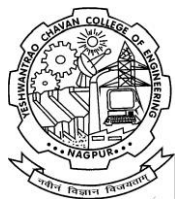
Administrative Coordination and Review Practice

7.4 Contribution to environmental awareness / protection

- Less usage of papers in offices/Paperless office
- 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
- Usage of Virtual Labs and online Teaching
- Save Water & Electricity
- Use of LCDs for power needs
- Effective recycling of waste

7.5 Whether environmental audit was conducted?: Yes

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



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

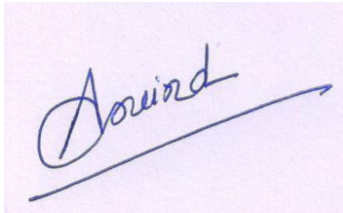
Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-242919, 242623, Fax 07104-242376, Website: www.ycce.edu

8. Plans of institution for next year (2018-19)

<u>IQAC Action Plan (2018-19)</u>	
Quality Assessment & Accreditation	• Submission of Compliance report to NBA for extension of Accreditation of 3 PG Programs
	• Mapping of Vision, Mission, PEO, PO & CO as per revised Vision & Missions
	• Internal Audit of Autonomy
	• Implementation of initiatives (DLA, CRT, VPS, TiE, Mentor-Mentee, PQAI, Project Mentors, innovative T-L methods)
Faculty Development	• Internal Promotion of Faculty & Support staff
	• Permission to the Faculty for pursuing higher education
	• Participation of Faculty in STTP/FDP/Workshops
	• Consultancy by departments as per assigned targets to fulfil the requirements of NBA/NAAC
Student Development	• Organization of various Student development activities under Professional Society Chapters, implementation of CRT
	• Guidance & Expert Lectures for Competitive Examinations preparation through GATE Clubs
	• Visit of Students to Institute of Eminence/Research Labs
	• Development of e-Resources: DTEL material, Question Bank
	• Certification courses by departments
R & D Activities	• Thrust Areas Specific Activities: Lab. Development, Proposals, Publications, STTPS/SDP/Training etc.
	• Submission of Proposals to funding agencies
	• Faculty/Students visits to Reputed Research Institutes/ Industries
	• Initiatives to Establish Incubation Center
	• Industry Supported Labs Establishment/Research Lab Linkages for Collaborative Research by the Departments
	• Filing of more Patents and copyrights
Institute-Industry Interaction	• Industry Experts involvement in development activities (Co-guides for Projects, Resource Person for FDP/STTP, CDW)
	• Industry Linkages through Industrial Tours/Visits etc.
	• Floating more Industry Aligned & Open Elective Courses
	• Centre of Excellence in the departments
	• Industry supported labs.
Interaction with Stakeholders	• Interaction of the management with the students
	• Alumni Meet & Alumni involvement in departmental activities
	• Parent Teacher Meet as per academic calendar
	• Employer Meet by T & P Cell

Initiatives for Eco-Friendly Campus	Tree Plantation Installation of Solar Energy panels on the roof of buildings Automation of Academic Processes (Student Diary, Mobile Based Attendance, etc.) Save Water & Electricity
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Prof. Arvind R. Bhagat Patil

Signature of Coordinator, IQAC



Dr. U.P. Waghe

Signature of Chairperson, IQAC



Annexures

Annexure-1**Yeshwantrao Chavan College of Engineering**

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

Hingna Road, Wanadongri, Nagpur

Academic Calendar(I Year BE) for Odd Semester in Academic Session 2017-18

Undergraduate Program (I Sem BE Group A & B)

Activity	Dates
Reporting and Course registrations	01 Aug 2017
Commencement of Teaching	01 Aug 2017
Mid Semester Examination (MSE)-1	11-16 Sept 2017
In Semester Feedback after mse1	18-23 Sept 2017
Showing the answer books to students and discussion with students. Grievances, if any, to be submitted to Grievance Redressal Committee	18-23 Sept 2017
Last Date for submission of MSE – I Marks to CoE	23 Sept. 2017
Display of Result MSE – I	23 Sept. 2017
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of MSE I	26 Sept. 2017
Students with low attendance/ poor performance to meet HoD/FYC	07 Oct. . 2017
Parent Teacher Meeting	07 Oct. . 2017
Deewali Vacation	16-21 Oct 2017
Mid Semester Examination (MSE)-2	23-28 Oct 2017
Showing the answer books to students and discussion with students. Grievances, if any, to be submitted to Grievance Redressal Committee	01-07 Nov 2017
Submission of potential detention list/ non course completion list to Dean Academics for attendance till 30 Oct. 2017	03 Nov. 2017
Last Date for submission of MSE-2 Marks to CoE	08 Nov. 2017
Display of Result MSE-2	08 Nov. 2017
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of MSE-II	11 Nov. 2017
Students with low attendance/ poor performance to meet HoD / FYC	11 Nov. 2017
Parents of Students with low attendance/ poor performance to meet FYC	11 Nov. 2017
Parent Teacher Meeting	11 Nov. 2017
End Sem Feedback from students	03-11 Nov 2017
Payment of fine, etc, Clearance to get Admission Card of Exam	15 Nov. 2017
Last date for Acceptance of Final Submission in Lab courses	18 Nov. 2017
Submission of provisional detention list to Dean Academics for attendance till 15 Nov. 2017	18 Nov. 2017
End of Teaching for all Classes (Attendance will be computed till this date)	22 Nov. 2017
Submission of Final Detention List to Dean Academic Matters	23 Nov. 2017
Display of Final Detention List on Notice Boards/ Forward to CoE by DAM	24 Nov. 2017
Distribution of Exam Admission Card to students who are in Provisional or final detention List	24-25 Nov. 2017
Compilation/Submission of TA/CA Marks to CoE.	25 Nov. 2017
End Semester Examination (ESE) including Practical courses	27 Nov-12 Dec 2017*
Showing the answer books to students and Discussion with Students Grievances, if any, to be submitted to Grievance Redressal Committee	04-08 Dec 2017
Winter break for students	10-17 Dec 2017
College Re-opens for Even Term 2017-18	20 Dec 2017*
Results	26-31 Dec 2017
Last Date for submission of grievances/ appeals by students regarding marks, valuation, Grades etc of ESE for Odd Term 2017-18	30 Dec 2017

Academic Calendar for Odd Semester in Academic Session 2017-18

Date of Release: 01 June 2017

Undergraduate Program (III, V and VII Sem BE)	
Activity	Dates
Course registrations (3, 5 and 7 Sem BE) without Late fee	15-17 Jun 2017
Commencement of Teaching (3, 5 and 7 Sem BE)	19 Jun 2017
Last Date for Course registrations (3, 5 and 7 Sem BE) with late fee	20 Jun 2017
Mid Semester Examination (MSE)-1	24-29 Jul 2017
In Semester Feedback	31 July -10 Aug 2017
Mid Sem Technical and Cultural Activities	16-18 Aug 2017
Showing the answer books to students and discussion with students. Grievances, if any, to be submitted to Grievance Redressal Committee	31 July-04 Aug 2017
Last Date for submission of MSE – I Marks to CoE	05 Aug. 2017
Display of Result MSE – I	05 Aug. 2017
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of MSE-I for Odd Term 2016-17	09 Aug. 2017
Students with low attendance/ poor performance to meet HoD	01 Sep. 2017
Mid Semester Examination (MSE)-2	05-11 Sep. 2017
Showing the answer books to students and discussion with students. Grievances, if any, to be submitted to Grievance Redressal Committee	12-16 Sep. 2017
End Sem Feedback from students	18-29 Sep. 2017
Last Date for submission of MSE-2 Marks to CoE	19 Sep. 2017
Students with low attendance/ poor performance to meet HoD	19 Sep. 2017
Display of Result MSE-2	20 Sep. 2017
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of MSE-II for Odd Term 2017-18	22 Sep. 2017
Parents of Students with low attendance/ poor performance to meet HoD	23 Sep. 2017
Parent Teacher Meeting	23 Sep. 2017
Submission of potential detention list/ non course completion list to Dean Academics for attendance till 29 Spet 2017	03 Oct. 2017
Payment of fine, etc, Clearance to get Admission Card of Exam	16 Oct. 2017
Last date for Acceptance of Final Submission in Lab courses	07 Oct. 2017
Submission of provisional detention list to Dean Academics for attendance till 7 Oct. 2017	10 Oct. 2017
End of Teaching for all Classes (Attendance will be computed till this date)	10 Oct. 2017
Submission of Final Detention List to Dean Academic Matters	14 Oct. 2017
Compilation/Submission of TA/CA Marks to CoE.	14 Oct. 2017
Display of Final Detention List on Notice Boards/ Forward to CoE by Dean AM	14 Oct. 2017
Distribution of Exam Admission Card to students	23 Oct. 2017
Deewali Vacation (Students)	16-21 Oct. 2017
End Semester Examination (ESE) including Practical courses	24 Oct. to 18 Nov. 2017
Showing the answer books to students and Discussion with Students Grievances, if any, to be submitted to Grievance Redressal Committee	13-18 Nov 2017
Winter break for students	19 Nov. - 10 Dec. 2017
Results	30 Nov. - 04 Dec. 2017
College Re-opens for Even Term 2017-18	11 Dec. 2017
Last Date for submission of grievances/ appeals by students regarding marks, valuation, Grades etc of ESE for Odd Term 2017-18	13 Dec. 2017

Yeshwantrao Chavan College of Engineering
Hingna Road, Wanadongri, Nagpur

Academic Calendar for Even Semester in Academic Session 2017-18

Date of Release: 15 January 2018 **version 1.02**

Undergraduate & Postgraduate Program (II Sem BE & M. Tech)

Activity	Dates
Course registrations (II Sem BE & II Sem M. Tech.)	19-20 Dec.2017
Commencement of Teaching (II Sem BE & II Sem M. Tech.)	19 Dec.2017
Last Date for Course registrations (II Sem BE & II Sem M.Tech.)	21 Dec.2017
Mid Semester Examination (MSE)-1	22-29 Jan. 2018
In Semester Feedback	05 -17 Feb.2018
Showing the answer books to students and discussion with students. Grievances, if any, to be submitted to Grievance Redressal Committee	31 Jan - 03Feb.2018
Last Date for submission of (MSE) - I Marks to CoE	05 Feb.2018
Display of Result (MSE)-I	05 Feb.2018
Technical and Cultural Activities YASH 18.O	15-18 Feb.2018*
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of (MSE)-I	10 Feb.2018
Students with low attendance/ poor performance to meet HoD/FYC	23 Feb.2018
Parent Teacher Meeting	24 Feb.2018
Mid Semester Examination (MSE)-II	05-10 Mar. 2018
Showing the answer books to students and discussion with students. Grievances, if any, to be submitted to Grievance Redressal Committee	14-15 Mar.2018
End Sem Feedback from students	16-28 Mar.2018
Last Date for submission of (MSE)-II Marks to CoE	16 Mar.2018
Display of Result (MSE)-II	16 Mar.2018
Students with low attendance/ poor performance to meet HoD / FYC	17 Mar.2018
Last Date for submission of grievances/ appeals by students regarding marks, valuation etc of MSE-II	22 Mar.2018
Parents of Students with low attendance/ poor performance to meet HoD	24 Mar.2018
Parent Teacher Meeting	24 Mar.2018
Submission of potential detention list/ non course completion list to Dean Academics for attendance till 24 Mar. 2018	28 Mar.2018
Last date for Acceptance of Final Submission in Lab courses	10 Apr.2018
Submission of provisional detention list to Dean Academics for attendance till 07 Apr. 2018	10 Apr.2018
End of Teaching for all Classes (Attendance will be computed till this date)	12 Apr. 2018
Submission of Final Detention List to Dean Academic Matters	13 Apr.2018
Compilation/Submission of TA/CA Marks to CoE.	13 Apr.2018
Display of Final Detention List on Notice Boards/ Forward to CoE by Dean AM	16 Apr.2018
Distribution of Exam Admission Card to students	16 Apr. 2018
End Semester Examination (ESE) including Practical courses	17 Apr. -08 May 2018
Showing the answer books to students and Discussion with Students Grievances, if any, to be submitted to Grievance Redressal Committee	02-08 May 2018
Summer break for students	09 May-16 Jun 2018
Results	21-26 May 2018
Last Date for submission of grievances/ appeals by students regarding marks, valuation, Grades etc of ESE for Even Term	07-10 May 2018
College Re-opens for Odd Term 2018-19	18 June 2018

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: 2017-18

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	2964	354	783	770	386	671	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	2964	363	809	847	412	533	Enhancement in manpower and good quality of cleaning material is provided.
3. Availability of dustbins on all floors and common areas	2953	409	901	838	379	426	Abundant dustbins are provided on all floors, common rooms and in library.
4. Quality of food in the Canteen	2970	401	981	938	288	362	Two canteens and food Courts are made available.
5. Ambience and hygiene in Canteen	2961	352	928	977	349	355	Surprise checks are Carried out for ensuring food quality in canteen.

6. Parking for Students vehicles is conveniently located and sufficient	2950	455	989	862	284	360	For Students two-wheeler and four-wheeler separate parking is provided. Students who are medically unfit are facilitated to bring their vehicle near their department.
7. Cleanliness in classrooms, laboratories & departments, Computer labs library	2956	454	1150	881	219	252	New manpower agency is engaged w.e.f. 1.07.2017. Manpower enhancement and quality of cleaning material is giving good result.
8. Psychological Counsellor/ Medical facility/ First aid boxes are available on campus	2932	404	1112	881	252	283	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.	2977	2110	0	0	0	867	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.

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 bondage among faculty and supporting staff. This has substantially improved work culture in the college. This has helped them to showcase their talents in cultural events.

2. Academic Innovations: Academic Advisory Board

Formation of Academic Advisory Board consisting of eminent academicians and their guidance has given directions to achieve academic excellence.

Wide Circulation of Policies

Policies created for the benefit of staff and students are widely circulated and are available on intra-net. Staff and students are deriving benefits from them.

Visiting Professors

Eminent Professors from IITs or NITs are invited for guidance, teaching critical topics, interacting with faculty on teaching and research under this scheme. They are expected in departments for couple of days every semester. This has enhanced the knowledge of faculty in regard to global perspectives of industrialization.

Focus on difficult to learn subjects

Each department identifies difficult to learn few subjects or topics in syllabus. Expert faculty from the department teaches these topics in addition to their regular teaching loads. This has improved results of these subjects and interest of students in learning.

Moodle based Departmental Website

All departments have launched departmental websites for uploading course handouts. This is also used for uploading completed assignments by students. This has helped in proper assessment of assignments, availability of course handouts to all and easy submission of assignment.

Financial Assistance to UG/PG Projects

The college makes budgetary provision for UG/PG projects. Financial assistance is given to students for completing projects. This has resulted in offering high quality innovative projects.

Online Teaching of Engineering Graphics

Engineering drawing has seen major transformation from hand drawing to computer assisted drawings. The Engineering Drawing subject at first year level is now renamed as Engineering Graphics and teaching, assignments and evaluation is done online.

Mentoring of Bright Students

The academically bright students are mentored with the help of alumni for the professional growth. The Mentors help the students to identify the new domains of technology which could be pursued for higher studies or enhanced employability.

3. Review Mechanisms

Departmental Perspective Plan Presentations

All HoDs present their Perspective plan for the year, highlighting programmes to be conducted, equipments to be procured and other important aspects of Teaching-Learning Process. The plan is reviewed every year and preventive / corrective actions are proposed for over all development of departments.

Department Level Audits

Department Level Audits are conducted every year to assess performance of each department. This has prompted for improvement in functioning of the departments.

Online Feedback

The shift from manual feedback from the students to online feedback has resulted in quick actions for improvements, as the outcome analysis of feedback is available in less time. Midsession feedback analysis has helped in improving T-L process.

4. Faculty Development

Induction Programmes

Newly joined faculty members are required to attend induction programme at the beginning of new session. This helps in understanding of college processes and accountability.

Mentor –Mentee schemes

Senior faculty members are mentoring new/junior faculty members for teaching various subjects. The scheme has resulted in enhancement of teaching capabilities of new / junior faculty members.

Department of Technology Enhanced Learning (DTEL)

Faculty members are guided to prepare their course ppts, these are validated through experts. This has helped in improvements in course delivery.

Co-Guides from other organizations

Co-guides from reputed institutions, practicing engineers and industry personnel are encouraged. This has resulted in offering more real times and industry oriented UG and PG Projects.

Annual Workload Plan

At the beginning of the year every faculty member is required to submit annual plan consisting of around 30 parameters, which include targets for paper publication, attending FDPs and conferences, carrying out special tasks etc. as per departmental and college targets. This helps in proper planning of academic year by the faculty. Midterm reviews of this are also taken.

Parent Teacher Meet

These are conducted every semester, these help in understanding of expectations of parents from the college and development of rapport between faculty and guardians of students.

5.

Development of Students

PG Mentor Scheme

Discipline wise expert faculty members from reputed engineering institutions are invited as mentors for PG programmes. Involvement of mentors right from synopsis drafting, guiding during progress seminars and reviewing during pre-submission seminars has resulted in enhancement of quality of PG projects.

Interaction with Role Models

The college provides a platform for interaction of students with role models to inspire them. In the recent past Hon A.P.J. Abdul Kalam, Youngest CEO Mr. Gopinath and eminent author Mr. Chetan Bhagat were invited to interact with the students.

Project Competitions / Technical Events

The college organizes “SPANDAN” the research paper competition, Pratikruti, the Project Competition, ICON, the Project Competition and COMPUFEST, a competition with various software related events every year. Students from institutions throughout India participate in these events. These give opportunities to students to showcase their talents and compare themselves with students from reputed institutions.

Campus Recruitment Training (CRT)

Campus Recruitment Training is a structured programme of 80-120 hours offered after Sixth Semester in the summer break. The programme prepares the students to face campus interviews.

Talk in English (TiE)

Talk in English is a structured programme for improving English communication by the students. Students coming from rural parts have been greatly benefited by this programme.

Industry aligned Professional Electives

The industry interacted with academia to frame the electives for the students on the basis of industrial requirements. The faculty for these courses were mentored by the respective corporate.

Free Electives

To facilitate learning of some core subjects from other disciplines, the college offers „Free Electives“ to students. All students are required to offer two free electives at defined level from a list of specific subjects.

Summer Term

In addition to Odd and Even terms, slow learners and detained students can study few courses in the summer term (June-July) every year. This has enhanced the number of students eligible for higher classes.

EDP Programmes

Special Entrepreneurship Development Programmes are organized by the EDP Cell. This has benefited aspiring entrepreneurs.

Industrial Tours & Industrial Visits

The college supports Industrial Tours, Visits to Industrial Exhibitions for understanding industrial practices and developments in respective areas. Industrial visits are conducted to bridge the gaps between curricula and industrial practices.

6. Research & Development**Mentoring for Funding Proposal Submission**

The college conducts counseling / guidance sessions for the faculty members to prepare funding proposal. This has resulted in submission of a good number of proposals to funding agencies, getting funds and development of research culture in the college.

7. Supporting Staff**Best Employee Award**

The college has started practice of honoring best employee, selected through a defined process. This has improved work culture in the college.

Family Picnics

The college arranges fully sponsored family tours of supporting staff to various places throughout India. Every year one family is selected from each institution in the group. This has improved commitment levels of supporting staff.

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 accreditation, 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 areas 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 chairperson 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 aligned/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.

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