Shri Ramdeobaba College of Engineering and Management,Nagpur

An Autonomous Institution Permanently Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,Nagpur

NAAC Accredited with **'A'** Grade

www.rknec.edu

Internal Quality Assurance Cell

Annual Quality Assurance Report (AQAR 2016-17)

Submitted to

National Assessment and Accreditation Council(NAAC)
Bangalore - 560072

CONTENTS

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

Part – A

AQAR for the year *(for example 2013-14)*

2016 - 2017

1. Details of the Institution

1.1 Name of the Institution

Shri Ramdeobaba College of Engineering and Management, Nagpur

1.2 Address Line 1

RamdeoTekdi, Gittikhadan

Address Line 2

Katol Road

City/Town

Nagpur

State

Maharashtra

Pin Code

440013

Institution e-mail address

principal@rknec.edu

Contact Nos.

+91-712-2580011, 2582844

Name of the Head of the Institution:

Dr. Rajesh S. Pande

Tel. No. with STD Code:	+91-712-2580011, 2582844

Mobile:	+91-9822224468

Name of the IQAC Co-ordinator:	Dr. (Mrs.) Meghana A. Hasamnis

Mobile:	+91-9373284084

IQAC e-mail address:	iqac@rknec.edu

1.3 NAAC Track ID *(For ex. MHCOGN 18879)* | MHCOGN 16762 |

OR

1.4 NAAC Executive Committee No. & Date:
(For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

EC(SC)/04/A&A/03, Dated, December 10, 2014

1.5 Website address: | www.rknec.edu |

Web-link of the AQAR: | http://www.rknec.edu/AQAR2016-17.pdf |

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	1st Cycle	A	3.10	2014	5 years (Valid up to December 09, 2019)
2	2nd Cycle	AAAA	AAAA	AAAA	AAAA
3	3rd Cycle	AAAA	AAAA	AAAA	AAAA
4	4th Cycle	AAAA	AAAA	AAAA	AAAA

1.7 Date of Establishment of IQAC: | 14/08/2013 |

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

   i.   AQAR 2014-15 submitted to NAAC on 28/06/2016
  ii.   AQAR 2015-16 submitted to NAAC on 23/02/2017
 iii.   AQAR_____ _____ (DD/MM/YYYY)
 iv.   AQAR_____ _____ (DD/MM/YYYY)

1.9 Institutional Status

University   State ☐   Central ☐   Deemed ☐   Private ☐

Affiliated College   Yes √   No ☐

Constituent College   Yes ☐   No √

Autonomous college of UGC   Yes √   No ☐

Regulatory Agency approved Institution   Yes √   No ☐

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

Type of Institution   Co-education √   Men ☐   Women ☐

                   Urban √   Rural ☐   Tribal ☐

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

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

1.10 Type of Faculty/Programme

Arts ☐   Science ☐   Commerce ☐   Law ☐   PEI (Phys Edu) ☐

TEI (Edu) ☐   Engineering √   Health Science ☐   Management √

Others (Specify)   Master in Computer Application

1.11 Name of the Affiliating University *(for the Colleges)*   Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

1.12 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			
UGC-COP Programmes			

Any other (*Specify*)

1. Rajiv Gandhi Science & Technology Commission (RGSTC) and Technology Information, Forecasting and Assessment Council (TIFAC) scheme funded by Department of Science & Technology, Government of India for providing technical support to the micro small and medium enterprises (MSMEs).

2. RCOEM TECHNOLOGY BUSINESS INCUBATORS FOUNDATION a Section 8 company have been incorporated by RCOEM to give momentum to innovation, entrepreneurship and incubation support related activities funded by Ministry of MSME, Government of India.

3. Visvesvaraya Ph.D. scheme for Electronics and Information Technology funded by Government of India, Ministry of Communication and IT, Department of Electronics and Information Technology, New Delhi.

4. Pradhan Mantri Kaushal Vikas Yojana of AICTE.

5. Rashtriya Uchchatar Shikshan Abhiyaan (RUSA), scheme under DTE, Government of Maharashtra.

2. IQAC Composition and Activities

2.1 No. of Teachers $\boxed{14}$

2.2 No. of Administrative/Technical staff $\boxed{01}$

2.3 No. of students $\boxed{01}$

2.4 No. of Management representatives $\boxed{01}$

2.5 No. of Alumni $\boxed{01}$

2. 6 No. of any other stakeholder and community representatives $\boxed{02}$

2.7 No. of Employers/ Industrialists $\boxed{01}$

2.8 No. of other External Experts $\boxed{NIL}$

2.9 Total No. of members $\boxed{21}$

2.10 No. of IQAC meetings held $\boxed{04}$

2.11 No. of meetings with various stakeholders: No. $\boxed{51}$ Faculty $\boxed{45}$

Non-Teaching Staff $\boxed{01}$ Students $\boxed{}$ Alumni $\boxed{05}$ Others $\boxed{}$

2.12 Has IQAC received any funding from UGC during the year? Yes $\boxed{}$ No $\boxed{\surd}$

If yes, mention the amount $\boxed{}$

2.13 Seminars and Conferences (only quality related)

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

Total Nos. $\boxed{28}$ International $\boxed{01}$ National $\boxed{04}$ State $\boxed{05}$ Institution Level $\boxed{18}$

(ii) Themes

Department of Mechanical Engineering	Conference on • 58th National Convention of Indian Institution of Industrial Engineering (IIIE) & Smart Strategies for Digital World - Industrial Engineering Perspective organised jointly by IIIE and Shri Ramdeobaba College of Engineering and Management on 21st to 22nd October 2016. Training on • Additive manufacturing with hands on experience by Mr. Bharat Mishra and Mr. Mihir Mehta of Stratagem Paramount Consultancy LLP, Mumbai in January 2017. Workshop on • Solid Modelling Competition under the banner of XII IPRoMM National Workshop on Challenges in machines and mechanism during 22nd - 23rd December 2016. Guest lecture on • Non-Destructive Testing by Mr. Parag Pathak, Trainer, NDT Solutions Pvt. Ltd., Nagpur on 10th August 2016. • Carrier Prospect in Energy Sector by Mr. Suarabh Motiwala, PGET, Lahmeyer International India Pvt. Ltd, Gurgaon on 19th July 2016. • Correct & Groom Yourself by Mr. Vilas Bhoyar, Manager HR & IR Star Circlips & Engg. Pvt. Ltd., MIDC Hingna, Nagpur on 1st August 2016. • Tips for Research & Project by Prof. S. G. Chilbule, Retd. Professor, RCOEM Nagpur on 2nd August 2016. • Non-Destructive Testing by Mr. Parag Pathak, Director, NDT Solutions Pvt. Ltd on 10th August 2016. • Challenges in Engineering Industry by Mr. Sudhir Singh Sarot, Sr. Vice President, RIL Refinery at Jamnagar on 5th October 2016. • Career Guidance by Dr. Sudhir Chaurasia, Sr. Executive, AXN Bank, Melbourne, Australia on 5th October 2016. • Entrepreneurship Development by Mr. Sashikant Chaudhary, CEO, Global Logic Pvt. Ltd. on 20th October 2016. • Vedic Mathematics by Mr. Manmath Deshpande, Director, Aptitude Development Centre on 12th August 2016. Industry visits organized – 11

Department of Civil Engineering	Short Term Training Program on • One week Short Term Train Program (STTP) on "Application of IS 800-2007 in Design of Steel Structures" from 12th to 16th January 2017. Workshop on • AUDACIOUS'17 A Startup Conclave in Civil Engineering was organized by Entrepreneurship Development Cell, Civil Engineering Department on 23rd February 2017. • Analysis and Design of Buildings on 21st September 2016 • Know your branch and plan your career on 7th September 2016. • Attitude, Aptitude and Attribute Enhancement on 15th October 2016 • Sustainability in Civil Engineering on 18th -19th October 2016. Technical events • NEEV national level technical event organized on 17th -18th October 2016. Guest lecture on • Construction techniques by Mr. B L Mehta, Director, M/s P L Mehta Construction company, Chandigarh on 21st October 2016. • How to Choose Construction Chemical for Advanced Projects by Mr. Rohit Naik, Business Director, Apple Chemie India Pvt. Ltd. on 22nd October 2016. • How to Read Structural Drawing by Mrs. Meenal Dehadrai, Aquades Structural Consultants Pvt Ltd. on 24th October 2016. • Vedic Mathematics by Mr. Manmath Deshpande, Head, Aptitude Development Centre, Nagpur on 18th – 19th January 2016. • Integration of Civil Engineering with Interior Designing to open new business fronts with special reference to girl students by Dr. Mrs. Valson. • Recent changes in Rules and Regulations in the area of development and construction of flat schemes by Mr Anil Nair. • Unfolding opportunities by integrating solar systems in construction of structures by Mr. Prasanna Sutone. • Opportunities in the soft skill sector in civil engineering with special reference to BIS by Mr. Kunal Dubey. • Opportunities of enterprise in various structural fields by Dr. Dilip Mase. • Business opportunities in the areas of surveying, Geometrics and remote sensing by Dr. Rohit Mane. • Opportunities of business in the areas of construction chemicals and seepage control by Mr. Prakash Ghushe. • Business Opportunities in Controlled Blasting techniques with special reference to Demolition of Structures and Urban blasting

	like Metro rail by Dr. Ramulu More. • Business opportunities in Home Automation by Prof. Uday Mujumdar. • Legalities involved in civil engineering business by Prof. M S Tiwari. • Motivational speech on Entrepreneurship by Dr. P. D. Pachpor. • Judges of competition on "Lay outing" by Ms. Kushal Kadu and Ms. Neha Janbade. • Judge of competition on "Tendering" by Mr. Motwani. • ISO: 875 Code of practice for design loads (other than earthquake) for buildings and structures by Mr. Satish Raipure on 1st April 2017. • Theoretical and practical aspect of bridges design by Mr. Bhushan J. Malkhadale, Deputy Engineer, MSRDC, Nagpur on 25th March 2017. Industry visits organized – 06
Department of Electrical Engineering	Short Term Training Program on • One week Short Term Training Programme "Microcontroller DSCdsPIC33EP256MC202 & it's Training Applications in Electrical Engineering" during 19th – 23rd December 2016. Workshop on • Introduction to Ardino & Its Application in Electrical Engineering on 2nd – 3rd May 2017. • Autocad Electrical by Mr. Praful Baid, CEO, Astral Informatics Pvt. Ltd on 16th – 17th February 2017. • Introduction to PLC–SCADA & Its Applications in Electrical Engineering on 3rd April 2017. • Basics of Aptitude skills by Mr. Pravin, Alumni 2001, Industrial and Mr. Ashish Diwam, Alumni 2009 batch, Electrical on 5th August 2016. • Concept of Group Discussion & Personal Interview by Mr. Sumit Totade, Ex Endorsement Dale Carnegie Trainer on 10th August 2016. Technical events • EMPOWER-17 state level technical event organized on 7th – 8th January 2017. Guest lecture on • Aptitude Development by Mr. Rishi Chourasia, Founder Director of Vikalp Education on 18th January 2017. • Guidance for Higher Studies by Mr. Llyod. Director, ICE Nagpur

	on 20th January 2017.
	• Carrier Guidance by Mr. Mehul Zhunzunwala, Time Nagpur on 10th February 2017.
	• Basics of Aptitude skills by Mr. Pravin, Alumni 2001 batch, Industrial and Mr. Ashish Diwan, Alumni 2009 batch, Electrical on 5th August 2016.
	• Concept of Group Discussion & Personal Interview by Mr. Sumit Totade, Ex Endorsement Dale Carnegie Trainer on 10th August 2016.
	• Career as Data Analayst by SoubhikDasgupta, Alumni 2007 batch, Electrical on 13th August 2016.
	• Transforming from academics to field environment by Mr. Girish Tiwari, Vice President& Head (Electrical Business Group), Larsen & Toubro, Mumbai on 7th January 2017.
	Industry visits organized – 02
Department of Electronics and Communication Engineering	Short Term Training Program on • Embedded System using Raspberry Pi Single Board Computer during 3rd -8th October 2016. Workshop on • PCB Design and Fabrication on 2nd – 3rd January 2017. • Tanner EDA tool and layout design on 5th - 7th October 2016 • Electronic Circuits Design on 12th - 13th August 2016. • Basics of GNU Radio on 29th - 30th August 2016. • Communication System Development using Arduino Board on 8th - 10th - 12th September 2016. Guest lecture on • Embedded Safety and Connections in cars by Mr. Gaurav Chaudhary, Graduate student, san Jose University, CA, USA on 27th January 2017. • Recent trends in Embedded Systems by Mr. Archit Somani, Director, Strawberry Enterprises Private Limited, Ahmedabad on 30th January 2017. • Vedic Mathematics by Mr. Manamth Deshpande on 16th January 2017. Industry visits organized – 03

Department of Electronics Design Technology	Workshop on • PCB Design and Fabrication on 2nd– 3rd January 2017. • Electronic Circuits Design on 12th- 13th August 2016. • Basics of GNU Radio on 29th- 30th August 2016. • Communication System Development using Arduino on 8th - 12th September 2016. Guest lecture on • Soft Skill Development by Prof. Rebecca Khemani (RCOEM) Prof. Akansha Deshpande (RCOEM) on 18th– 25thJuly 2016. • How to win Market by Akhil Kasturkar, Director, Regalia paints on 23rdJuly 2017. • How to Handle Interview by Mr. Saurav A. Roy, HR, Infocepts on 6thAugust 2016. • Alumni Talk on Carrier Prospects by Miss. Ishita Vaidya on 11thAugust 2016. • Importance of Solar Energy and New Opportunities by Mr. Ashok Aherkar, Director, Ashoka Solar and Energy Pvt. Ltd. on 8thOctober 2016. • Opportunities for Electronics Engineer in Industrial Automation by Nitin Thor, Renu Electronics on 8thOctober 2016. Industrial visit organized – 01
Department of Electronics Engineering	Short Term Training Program on • ISTE approved Short Term Training Programme conducted on "FPGA Based Digital System Design" during 21-26 November 2016. Workshop on • Aptitude Development and Group Discussion on 7th February 2017. • Workshop for staff of college was organized by the department of Electronics Engineering on 16th and 17th December 2016. The objective of the program was to create the office management, time management and computer skills up-gradation for effective performance. Technical events • ENNOVATE 2017 a National Conference & Project Competition was organized on 24th March 2017. Guest lecture on • Higher Studies Abroad by Prof. Anish Goel, RCOEM, Nagpur on 6thAugust 2016. • Career in armed Forces by Mrs. Shivali Deshpande, Flying Officer (Retd), Nagpur on 29thSeptember 2016.

	• Bioengineering Amalgamation of Biology with Engineering by Dr. A. M. Kuthe, HOD, Mechanical Engineering, VNIT, Nagpur on 1st October 2016. • Career in Public Services for Engineering by Mr. Ram S. Wagh State Intelligence Bureau Officer, Nagpur on 23rd January 2017. • Quantum Mechanics by Dr. R. M. Patrikar, Professor, VNIT Nagpur on 30th July 2016. • Nanoscale MOSFET by Dr. Ganesh Patil, Professor, VNIT Nagpur on 27th August 2016. • Adaptive Signal Processing by Dr. N. V. George, Asst. Professor, IIT Gandhinagar on 20th October 2016. • Intellectual Property Management by Mr. Pankaj P. Borkar, Asst. Controller of Patents & Designs, Head of Office, RGNIIPM, Nagpur on 11th November 2016. • Current Research Trends in Engineering: Agriculture, Healthcare and role of Engineers by Dr. Krishna K. Warhade, Dean R&D, MITCOE Pune on 10th December 2016. • Vedic Mathematics by Mr. Manmath Deshpande Head, Aptitude Development Centre, Nagpur on 1st March 2017. Industry visits – 06
Department of Industrial Engineering	Conference on • 58th National Convention of Indian Institution of Industrial Engineering (IIIE) & Smart Strategies for Digital World - Industrial Engineering Perspective organised jointly by IIIE and Shri Ramdeobaba College of Engineering and Management on 21st to 22nd October 2016. Guest lecture on • Higher education from foreign universities by Mr. Ashish Motwani. • Vedic Mathematics by Mr. Manmath Deshpande (Trainer: Aptitude Development) on August 12th, 2016. • Human Resource Management by Mr. Vilas Bhoyar, Sr. Manager (Personnel / ER / IR & Admin) of Star Circlips and Engineering Ltd. on 1st August 2016. • Six Sigma & Analytics by Mr. SoubhikDasgupta, Founder of SDG consultants: School Of Excellence on 10th August 2016. • Digital Marketing by Mr. Shashank Akare.

Department of Computer Science Engineering	Technical events • Polaris conducted on $18^{th} - 20^{th}$ January 2017. Guest lecture on • Prospect ideas for entrepreneurship by Mr. Ajit Dharmik, Director, 6Simplex Software Solutions Private Limited, Nagpur on 6th October 2016. • Deep Learning & Developing Entrepreneurship Skill by Mr. Arvind Kumar (DY) Centre Head TCS, Nagpur. On 18th January 2017. • Operating Systems and its Implementations by Mr. Rahul Tarnekar, CEO, Kizora Software Pvt. Ltd., Nagpur on 11th February 2017. • Object Oriented Technologies by Mr. Dhaniram Kshirsagar, Team Lead, Persistence Systems Pvt. Ltd. On 23rd February 2017. • Application Level Web Security by Mr. Abbas Ali, Director and Chief Technology Officer, Ranium Systems Private limited, Nagpur on 6th April 2017.
Department of Information Technology	Workshop on • Mobile Apps Development by Mr. Vinit Agrawal, Thought works, Pune, Mr. Rahul Jain, Limn Labs, India. Technical events • COLOSSEUM-17 a national level technical symposium on $12^{th} - 14^{th}$ October2017. Guest lecture on • E-Learning: Software Engineering by Mr. Manish Asnani, Mr. Dinesh Adyalkar. • Aptitude Development by Mr. Manmath Deshpande. • Recent Trends in IT Industry by Mr. Deepak Jha. • Introduction to Apple Technologies by Mr. Ravi Rao, Sales and Marketing Manager, Inspire (Apple Technology). • Hardware Basics and Understanding of Server Machines by Mr. Shrinivas Choudhary, Director, Datawise, Laxminagar, Nagpur. • Career Guidance by Mr. Akash Jaiswal, Academic Head of I.C.E. GATE Institute, Nagpur. Industry visits – 03

Department of Master in Computer Application	Guest lecture on
	- Digital Marketing and its future scope by Mr. Aditya Gadhave, Bussiness Operation Associate, Accenture, Hyderabad on 13th August 2016.
	- Career opportunities in IT Industries by Mr. Umesh Chikate, Project Manager, John Deere India Pvt. Ltd., Pune on 12th September 2016.
	- Google Adwords Fundamentals by Mr. Aditya Gadhave, Bussiness Operation Associate, Accenture, Hyderabad on 7th October 2016.
	- Latest Technological Aspects by Mrs. Preeti Agrawal, Software Trainer, ADCC Ltd., Nagpur on 19th October 2016.
	- Career Opportunities by Mr. Vaibhav Abdeo Sr. Technical Architect, ZS Associates on 25th March 2017.
	Industry visits – 02
Department of Management and Technology	Conference on
	- 58th National Convention of Indian Institution of Industrial Engineering (IIIE) & Smart Strategies for Digital World - Industrial Engineering Perspective organised jointly by IIIE and Shri Ramdeobaba College of Engineering and Management on 21st to 22nd October 2016.
	Guest lecture on
	- Business opportunities in China by Mr. Amit Waikar, President, India Association, Shanghai on 25th July 2016.
	- CA Venture Capital by Mr. C. A. Rajgadkar, Managing Partner, Verve Capital Consulting on 29th July 2016.
	- Social Media Marketing by Mr. Rishi Gupta, C0-Founder, PRO UP, Social Media Marketing on 29th July 2016.
	- Search Engine Optimisation by Mr. Kunal Gupta, C0-Founder, PRO UP, Social Media Marketing on 29th July 2016.
	- Family Business: An Innovation by Mr. Mukul Kulkarni, Breakfast Story on 3rd August 2016.
	- Project Management at Tech Mahindra by Mr. Prasad Thanekar, Project Manager, Tech Mahindra, Nagpur on 13th September 2016.
	- Case Study – Infocepts by Mr. Saurav Roy, Infocepts on 26th August 2016.
	- Aptitude Development by Mr. Manmat Deshpande, Aptitude Development Council on 26th August 2016.
	- Marketing by Mr. Dhok on 29th August 2016.
	- Goal Setting by Prof. Q. H. Jeevaji on 27th August 2016.
	- Entrepreneurial Journey by Mr. Vivek Thakkar, PunitSuber

	Bazar on 29th August 2016.
	• HRM by Prof. Milind Fadnavis, IMT on 29th August 2016.
	• Career Opportunities in UAE by Mr. Saket Chaudhry on 30th August 2016.
	• Training & Placement by Mr. Ashish Sawate on 7th September 2016.
	• Training & Placement by Ms. Punam Gurao on 7th September 2016.
	• Sales & Management Strategies @ Godrej by Mr. Sushant, Godrej Security Solutions on 30th September 2016.
	• Training & Placement by Mr. Nitin Deshmane on 12th August 2016.
	• Family Business by Mr. Pratik Jain, MD, Mahindra Sons on 5th October 2016.
	• Entrepreneurial Journey by Mr. Dipesh Ajmera, CEO Ajmera Tyres on 21st October 2016.
	• Entrepreneurial Journey by Mr. Shashank Garg, Managing Director, Infocepts on 7th October 2016.
	Industry visits – 09

2.14 Significant Activities and contributions made by IQAC

- Institute ranked 64th amongst all Engineering Colleges of India as per National Institutional Ranking Framework (NIRF), MHRD, Government of India.

- Selected as top College in Maharashtra for Implementation of Scheme of Technology Information Forecasting and Assessment Council (TIFAC) by Rajiv Gandhi Science and Technology Commission (RGSTC), Government of Maharashtra for consecutive second year.

- Received funds under the Proposal of Level-0, FIST (Fund for Improvement of S&T infrastructure) Programme of DST, Government of India.

- Visvesvaraya Ph.D. Scheme of Ministry of Communication and IT, Department of Electronics and Information Technology Govt. of India is implemented.

- RCOEM Technology Business Incubators Foundation a Section 8 company has been incorporated by RCOEM to give momentum to innovation, entrepreneurship and incubation support related activities.

- Implementing Rashtriya Uchchatar Shikshan Abhiyaan (RUSA), a scheme under DTE, Govt. of Maharashtra.

- Institute selected as Knowledge Management Partner Institution (KMPI) for Consultancy Development Centre (CDC), DSIR (Dept. of Scientific & Industrial Research) and Govt. of India under the programme "Building Capacities for Consultancy Development and Knowledge management with partner Institution".

- Formation of Academic Advisory Board.

- Autonomy extension committee visited the campus and college received autonomy extension of 6 years.

- Successfully organized the entrepreneurial initiative by Govt. of India Smart India Hackathon, 2017.

- Choice Based Credit System (CBCS) implemented for Post Graduate Programmes.

- Post Graduate Programmes examination process decentralized.

- Credit transfer scheme implemented.

- Two students from Department of Management Technology went to University of North Florida for one semester under Credit transfer scheme.

- One student from Civil Engineering Department went to UMASS Lowell, USA for one semester under Credit transfer scheme.

- MOU with reputed academic institutes and industries.

- 1st Graduation Ceremony at College campus on 24th December, 2016.

- Internal and External Academic Audit conducted.

- Internal Audit of Autonomy conducted.

- Three PG Programmes and Four UG Programmes were accredited by National Board of Accreditation (NBA).

- Encouraged R&D and Consultancy activities.

- Afresh R&D policies and means to decimate them were formulated to motivate faculty members to write Research Proposals.

- Sensitizing faculty members about Intellectual Property Rights.

- Encouraged to Strengthen III Cell activities.

- Library renovation work completed.

- Introduction of new laboratories and course modules in some Departments.

- Encouraged T&P for placement of students in core sector and with good pay packages.

- Interaction with industries for carrying the activities of Career planning, Guidance, training and placement activities.

- Improved ICT facilities.

- Collaboration with industries for better learning and knowledge update of both the students and faculty members and inviting leading companies for the campus recruitment drives and preparing students as per the requirements of the company.

- Up-gradation of Lab Equipment to meet with the advanced technology across the Departments.

- Orientation programme of one week was conducted for newly recruited faculty members of RCOEM.

- Orientation programme conducted for First year students.

- Orientation program for second year students conducted to familiarize students about various activities and functioning of the department at department level.

- All Academic and Creative Clubs are functionally active across all branches.

- Encouragement is given to Students to participate in different events like Sports / NSS activities.

- Value Addition Programmes / career oriented technical training programmes for students to improve their technical acquaintance.

- Encouraging Students for Industrial visits to understand and to gain the knowledge of new concepts.

- Skill Development programmes are conducted.

- Faculty members are encouraged to undergo training programmes in Industries and IIT's for technology advances.

- In-House training is imparted to non-teaching staff for skill upgradation.

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 *

Plan of Action	Achievements
Internal and External Academic Audit	Internal and External Academic Audit conducted. Department wise subject experts performed the audit and verified the existing processes and suggested the changes required. External Audit conducted from 19th -29th August 2017.
Internal Autonomy Audit	Internal Autonomy Audit conducted and report prepared.
External Autonomy Audit	External Autonomy Audit conducted on 1st October 2016.
Apply for Extension of Autonomy	For Autonomy extension committee visited on 3rd March 2017 and college received extension of autonomous status for 6 years.
Conduction of Environmental Audit	Environmental Audit conducted.
Choice Based Credit System (CBCS) for Post Graduate and Under Graduate Programmes	Choice Based Credit System (CBCS) implemented for all Post Graduate Programs.
Decentralization of Post Examination work for Post Graduate Programmes	Post Examination work for Post Graduate Programmes decentralized.
Accreditation of Three Post Graduate and Four Under Graduate Programmes	Three Post Graduate and Four Under Graduate Programmes NBA accredited.
Submitting Research proposals to various funding Agencies.	Submitted proposals to various funding agencies and received grants for – • Received funds under the Proposal of Level-0, FIST (Fund for Improvement of S&T infrastructure) Programme of DST. • Implementing Rashtriya Uchchatar Shikshan Abhiyaan (RUSA), a scheme under DTE, Govt. of Maharashtra.

	• Partner institute for implementing Pradhan Mantri Kaushal VikasYojana, AICTE.
Apply for NIRF ranking	Institute ranked 64th amongst all Engineering Colleges of India as per National Institutional Ranking Framework (NIRF), MHRD, Government of India
Increase Industry Institute Interaction Activities	RCOEM RGSTC-TIFAC–MSME Internship Scheme for UG students implemented. Encouragement given to carry out industry based projects.
Improve the Internship for Post Graduate and Under Graduate students	Provisions made to implement one year internship for PG students and six months internship for PG and UG students.
Preparation of Perspective plan and Road map for all the Departments of the Institute	Process initiated and few departments prepared and presented their perspective plan and roadmap in IQAC meetings.
Formation of Academic Advisory Committee	Academic Advisory Committee formulated with – • Padma Vibhushan Dr. Anil Kakodkar, Chairman, Academic Advisory Board, RCOEM • Padma Shri Dr.NagarajanVedachalam, Member, Academic Advisory Board, RCOEM • Dr. Mihir Kanti Chaudhuri, Member, Academic Advisory Board, RCOEM
Conduction of International / National Conferences / STTP / Workshops / Seminars etc.	• **58th National Convention of Indian Institution of Industrial Engineering (IIIE) & Smart Strategies for Digital World - Industrial Engineering Perspective** organized jointly by IIIE and Shri Ramdeobaba College of Engineering and Management on 21st to 22nd October 2016. • Department of Electronics Engineering organized an ISTE approved **Short Term Training Programme** on "FPGA Based Digital System Design" during 21st – 26th November 2016. • **Recent Trends and Technologies in Big Data Analytics [Data Science Research] BDI (Big Data Initiatives Division)** sponsored 4-day Training Programme organized by Department of Computer Science & Engineering during 19th to 22nd December 2016.

	Technovision 10.0 - A National level Technical festival is a part of initiative taken by the college with Technical Club of our college to give an opportunity to budding engineers to implement their technical knowledge and explore their creativity. **Empower-17**, organized by Department of Electrical Engineering, a unique mega event having participation of industries of repute and participants from Engineering Colleges in Central India. "Empower" conducted for fourth time has now become one of the most sought after event by the industrial houses and the students as well. Empower-17 was successfully conducted on 7th and 8th January 2017. **Workshop on Aptitude Development (WAD)**, a seven day workshop on aptitude building and personality development was conducted during 15th December, 2016. **ENNOVATE 2017** - ELECTROLITZ - Student's Society of Electronics Engineering Department organized National Conference & Project Competition on 24th March 2017. **NEEV** – A National Convention of Civil Engineering for students on 15th, 17th, 18th and 19th October, 2016 under the banner of CESA-Civil Engineering Students Association. **COLOSSEUM-17** Information Technology department conducted the mega event– A national level technical symposium, under Semicolon Tech Club (STC) and CSI Students Chapter of RCOEM during 12th – 14th October, 2017. The event spanning three days consists of different competitions like GROUND ZERO, JUNKYARD WARS, EXPRESSO (Public Speaking), CODEMANIA, FUTSUL, APERTURE (Photography Competition) etc. The event saw overwhelming participations from many colleges across the region. **Transpreneur** – 3 day inter collegiate workshop organized on entrepreneurships development during 11th – 13th February 2017.
Establishment of RCOEM TBI (Technology Business Incubator) Foundation Proposal to be submitted	RCOEM TECHNOLOGY BUSINESS INCUBATORS FOUNDATION a section 8 company have been incorporated by RCOEM to give momentum to innovation, entrepreneurship and

	incubation support related activities funded by Ministry of MSME, Government of India.
Motivating faculty members to pursue Ph. D.	No. of Ph. D. awarded – 13 No. of Ph. D. submitted – 05
Implementation of Visvesvaraya Ph.D. scheme of DeitY, Government of India	Received and implementing Visvesvaraya Ph. D. scheme for Electronics and Information Technology funded by Govt. of India Ministry of Communication and IT, Dept. of Electronics and Information Technology, New Delhi.
1st Graduation Ceremony to be organized	RCOEM witnessed its 1st Graduation Ceremony at College campus on Saturday, 24th December, 2016.

*Attach the Academic Calendar of the year as Annexure

**Academic Calendars provided in Annexure I

2.16 Whether the AQAR was placed in statutory body   Yes √   No ☐

Management ☐   Syndicate ☐   Any other body √

Provide the details of the action taken

Minor modifications suggested and AQAR was approved in Internal Quality Assurance Cell (IQAC) meeting.

Part – B

Criterion – I

1. 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	05		05	
PG	10		10	
UG	09		09	
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	24		24	

Interdisciplinary				
Innovative				

1.2 (i) Flexibility of the Curriculum: CBCS✓ (For Post Graduate Programmes) / Core✓ / Elective option✓ / Open options✓

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	✓
Trimester	
Annual	

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

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

*Please provide an analysis of the feedback in the Annexure

**Analysis of the feedback provided in Annexure II

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

- Choice Based Credit System for Post Graduate Programmes from session 2016-17.

- Post Exam work for Post Graduate Examination decentralized.

- Industry based elective courses run successfully.

- Provision made for one year internship for Post Graduate courses and six months internship for Under Graduate courses in Eighth Semester.

- Syllabi of individual courses are updated as per the needs identified by stakeholders.

** Details of revision/update of regulation or syllabi provided in Annexure III

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

Nil

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
237	167	49	20	01

2.2 No. of permanent faculty with Ph.D.   89

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
23	--	05	--	02	--	--	--	30	--

2.4 No. of Guest and Visiting faculty and Temporary faculty

Guest: Nil   Visiting: 04   Temporary/Adhoc: 62

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	45	27	1
Presented papers	125	30	1
Resource Persons	10	4	13

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

- Encouragement given to self-learning via various activities carried out under different banners.
- NPTEL lectures made available.
- Quiz modules incorporated in GEMS.
- Simulation of experiments on Virtual lab portal set up by Ministry of HRD in association with IITs.
- Flipped classroom concept was used where video lectures were given to students which were prepared by the course teacher .The students watch the videos at their home and do the work in classroom.
- Lab development in collaboration with industry.
- Industry experts contribute in designing the practicals.
- Encouraging the interdisciplinary knowledge through introduction of Open Electives.
- Demonstration and use of Open source tools in Laboratories.
- Encouraging the use of library by the students by adopting appropriate means in teaching-learning and evaluation process.
- Tutorials designed to develop strong foundation and practices.
- Conducting Technical Workshops and guest lectures.
- Faculty and students take part in various skill development/training programs organized by Industry and Institutes of repute.
- Implementation of Mentoring and Grievance handling scheme for students.
- Technical, Analytical skill development, GD / PI sessions conducted for Final year students as a part of pre placement activity.
- Preparation of object driven teaching plan.
- Mentoring to junior students by senior students.
- Student centric learning which focuses on skills and practices that enable lifelong learning and independent problem solving.
- Up-gradation of faculty competencies through strong support by deputing faculty for training programmes organized by industry and institutes of repute.
- Student mentor programme at Department Level.
- Introduction of two hours per week in third and second year time table for industry interaction and self development of students by few Departments.
- Creative and informative evaluation methods adopted for teachers assessments and internal assessment for various courses.
- Use of PowerPoint and multimedia tools.
- Departmental faculty has developed Unique "SGPA Planner" which helps students to plan studies to achieve the target CGPA at given level.

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

> 181

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

- Conduction of Multiple Choice Questions (MCQ) based objective tests as internal assessment in GEMS.

- Open Book Examinations are conducted as a part of internal assessment.

- To ensure the quality paper setter can set maximum two paper sets of one subject.

- Simplification and speeding up of post exam process by removing the scrutiny done at the spot valuation centre after the paper valuation.

- Post exam process for Post Graduate Programmes decentralized.

- After grievance redress, marks are shown to the students.

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

> 307 - All faculty members

2.10 Average percentage of attendance of students

> 78%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %

* As institute follows Grading System the distribution of pass percentage is given in table below in the form of CGPA.

Under Graduate Programmes

Title of the Programme	Total no. of students appeared	CGPA					Pass %
		5-6	6-7	7-8	8-9	9-10	
Computer Science and Engineering	147	07	29	51	44	15	95.17%
Civil Engineering	149	09	45	52	35	07	85.90%
Electrical Engineering	79	6	14	25	19	10	88.61%
Electronics Engineering	202	01	43	82	41	09	87.13%
Electronics and Communication Engineering	144	09	32	50	34	13	90%
Electronics Design Technology	35	01	07	17	07	02	97.14 %
Information Technology	74	03	19	27	15	04	91.9%
Industrial Engineering	81	03	27	30	19	01	98.76%
Mechanical Engineering	78	01	13	25	25	05	88.46 %

Post Graduate Programmes

Title of the Programme	Total no. of students appeared	CGPA				Pass %
		6-7	7-8	8-9	9-10	
M. Tech. (Computer Science and Engineering)	16	01	08	05	01	93.75%
M. Tech. (Heat Power Engineering)	21	00	07	10	01	85.71
M. Tech. (Industrial Engg.)	09	00	02	07	00	100%
M. Tech. (Power Electronics & Power System)	15	00	08	05	02	100%
M. Tech. (VLSI Design)	20	00	05	10	21	85%
M. Tech. (Structural Engineering)	18	00	02	14	02	100%
MBA	107	08	38	30	04	75.70%
MCA	55	06	31	11	04	98%

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

IQAC suggests

- To organize guest lecturers/seminars/workshops to cover the topics beyond syllabus.

- Arrange training programs for faculty and students.

- Use of ICT tools in syllabus coverage.

- Use of pedagogical techniques in teaching-learning.

- Development of curriculum as per the need of industry.

- Encouraging industry visits and student internship at industry.

- Encouraging industry based projects.

- Analyzing the student's feedback in all the subjects and laboratories.

- Pre-placement activities to be conducted.

- To use Innovative Teaching learning methodologies.

- Monitors the syllabus coverage as per the lecture schedules and number of periods engaged.

- Monitors the number of experiments prescribed and conducted in each laboratory and the experiments beyond the syllabus.

- Every Department has its Programme Educational Objectives, Programme Specific Objectives and Programme Outcomes based on vision and mission of the Department in line with the vision of the institute. Programme Outcomes are also based on graduate attributes and stakeholders. For every course, outcomes are framed. Evaluation of teaching and learning process / academic monitoring is performed by assessing the attainment of Course outcomes / Programme outcomes which are performed using direct assessment and indirect assessment methods. Attainments of Programme Outcomes are analyzed by the direct assessment methods such as Test1, Test2, Test3 and End Semester marks and assignments / continuous evaluation of students. Indirect methods include student feedback, course end survey, exit feedback, alumni feedback etc. Based on the feedback of the student's course end survey, exit feedback, alumni feedback proper actions are initiated.

- Evaluates the Teaching & Learning processes based on the assessment and attainment of the Programme Outcomes of every Department.

- Evaluates based on the student feedback and appropriate measures are initiated.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	10
UGC – Faculty Improvement Programme	3
HRD programmes	30
Orientation programmes	37
Faculty exchange programme	0
Staff training conducted by the university	17
Staff training conducted by other institutions	35
Summer / Winter schools, Workshops, etc.	45
Others	17

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	69	--	--	23
Technical Staff	44	--	--	39

Criterion – III

3. Research, Consultancy and Extension

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

Shri Ramdeobaba College of Engineering and Management (RCOEM) strongly believe that our service is to disseminate knowledge through teaching and create new knowledge through research. For this it is necessary to foster a research culture amongst the faculty members and students along with necessary infrastructure and support facilities.

The R&D Cell is constituted with the following aims:

1. To cultivate strong research culture amongst faculty members and students.
2. To embed research in all levels of academic activity (undergraduate, postgraduate and PhD).
3. To increase the quantity and quality of our research outcomes.
4. To increase the sources of external research funding in order to build capacity, create new knowledge and research quality.

In order to achieve this following initiatives / actions are undertaken

1. **Research Incentives:**

    In order to motivate the faculty members following incentives are provided
    - Incentives for Publications in Journal
    - Incentives for attending Conference / Workshop / STTP / FDP / MDP / Seminars / Training in India.
    - Incentives for presenting paper in Conference abroad
    - Incentives for Patents filing, publication and examination.
    - Incentives for pursuing Part Time PhD
    - Incentives to Students for Publications in Journals

2. **Internal funding for research:**
    - Research fund for young faculty members: The seed money is provided to faculty members for carrying out his/her research.
    - The annual departmental R&D fund allocated to every department every year may be utilized for departmental R&D activities.

3. Intellectual Property Rights:

- College has dedicated IPR Cell which provides guidance, support and resources to all the faculty members, staff and students of RCOEM and facilitate protection and deployment of intellectual property.
- The cell creates awareness about the importance and role of IP Rights. It also facilitates the training of faculty members, staff and students regarding IPRs.
- The cell provides administrative, technical and legal support to faculty, staff and students for drafting and filling their patents
- The cell also helps the faculty members for getting copyrights to their work
- The cell also provides legal help through hired patent attorney

4. Incentives and Motivation for Pursuing Higher Studies:

- Faculty member of the college are allowed to pursue Part-Time PhD.
- Faculty members those are pursuing Part-Time PhD may get up to three months full salary study leave.
- The faculty members those pursuing part-time PhD at RCOEM or other Institutes of national repute like IITs/IISc/IIITs/NITs are eligible for reimbursement of annual PhD fees.

5. Faculty Development initiatives:

- A workshop sponsored by Department of Science and Technology on "Recent Trends and Technologies in Big Data Analytics" was organized by Department of Computer Application on 19-22 December 2016.
- An Orientation Programme for newly recruited faculties was organized by Internal Quality Assurance Cell, RCOEM, Nagpur, on July 11-16, 2016 for one week as a prospect towards faculty development.
- Every Saturday the Department conducted the Faculty Development Programme on Research for the internal faculty to sensitize and promote research. Share the research work of the faculty and sensitizing about the software etc.

6. Other initiatives:

- M. Tech. and B.E. students are encouraged to pursue projects based on research outcomes published in referred journals and conferences.
- M. Tech. students are encouraged to publish their research in Scopus / SCI indexed journals only.

- Students are also provided opportunities to carry out industry associated / sponsored / assisted projects in the curriculum.

- Interaction with external experts for research proposal and collaborative research work is encouraged.

- College is involved in national initiatives through MHRD under Rashtriya Uchchattar Shiksha Abhiyan (RUSA) in realizing ICT enabled Smart Universities.

- College is also associated with MSMEs of the region in developing solution to their problems.

- Visvesvaraya Ph.D. scheme of DeitY, Govt. of India has been implemented.

- Online journal subscriptions are accessible by the students as well as faculty for research.

- Research Groups are formed based on faculty expertise and research interest. Their regular meetings are organized to assess the progress of research work.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1) Project titled "Determination of Tool Condition in Boring Machine using Acoustic Emissions" under Research Promotion Scheme of (AICTE)	1) DST - FIST (level 0) project	1) DST - FIST (level 0) project	1) Skill and Personality Development programme centre for SC/ST Students under AICTE-QIS 2) Research Promotion Scheme (RPS) under AICTE-QIS 3) Design and Development of Frequency Reconfigurable Antenna for MIMO based Wireless Communication System (SERB). 4) Design and Development of Environmental friendly biomaterial for inline treatment of pharmaceutical fritter as emerging contaminants (SERB). 5) Photo Luminescent Materials as Efficient Spectral Converters for Solar Fuel Applications (DST) 6) FIST Level 1 7) Vehicular communication and efficient charging management system for next generation electrical vehicles in India (DST).
Outlay in Rs. Lakhs	18.76 Lakhs	-	45 Lakhs	372.64 Lakhs

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1) Minor Research Project on "Investigation of Volumetric and Acoustic Properties of Aqueous Binary and Tenary Mixtures"(University Grants Commission (UGC) 2) RGSTC-TIFAC-MSME Internship Program(RGSTC) 3) "Fabrication of microfluidic channel for detection of adulterants in milk"(Research Project under INUP Programe at IIT Bombay Sponsored by MCIT)		-	1) Effect of Generator Reactive Power Limit on Proximity to Voltage Instability of Multibus Power System(AICTE) 2) Effects of Switching Frequency and Motor Speed on Common Mode Voltage, Common Mode Currnet and Shaft Voltage in PWM Inverter-fed Induction Motors(AICTE) 3) Advances in Geotechnical Engineering(AICTE) 4) MODROBS (AICTE)
Outlay in Rs. Lakhs	15.67 Lakhs	-		24.03 Lakhs

3.4 Details on research publications

	International	National	Others
Peer Review Journals	82	08	02
Non-Peer Review Journals	10	02	-
e-Journals	08	-	-
Conference proceedings	114	14	02

3.5 Details on Impact factor of publications:

Range 0.701 – 8.19   Average 2.828   h-index [   ]   Nos. in SCOPUS 28

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned	Received
Major projects	2016-17	Big Data Initiatives (BDI) Division, Department of Science and Technology (DST) GOI	Rs. 6,00,000/-	400,000/-
	2016-17	DST - FIST (level 0)	Rs. 45 Lakhs	-
Minor Projects	2016-17	UGC	Rs. 4.43 Lakhs	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	2016-17	1. Kiran Plastic Industries	Rs. 4,000/-	Rs. 4,000/-
		2. Sensors & System Industrial Solutions Pvt. Ltd.	Rs. 50,000/-	Rs. 50,000/-
Projects sponsored by the University/ College	2016-17	RUSA in association with RTM Nagpur University	Rs. 25,00,000/-	-
		RCOEM	Rs. 38,520/-	Rs. 38,520/-
Students research projects (other than compulsory by the University)	2016-2017	RGSTC-TIFAC-MSME Internship Program	Rs. 11,24,890/-	Rs. 11,24,890/-
Any other (Specify)	2016 -17	UGC	Rs. 70,779/-	Rs. 70,779/-
Total			Rs. 93,31,189/-	Rs. 16,88,189/-

3.7 No. of books published i) With ISBN No. | 03 | Chapters in Edited Books | 07 |

       ii) Without ISBN No. | 01 |

3.8 No. of University Departments receiving funds from

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 | Rs. 63,04,450/- |

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	01	02	Nil	Nil	Nil
Sponsoring agencies	Indian Institution of Industrial Engineering	DST IPRoMM			Indian Institution of Industrial Engineering

3.12 No. of faculty served as experts, chairpersons or resource persons: | 111 |

3.13 No. of collaborations

International | 01 | National | 13 | Any other | 01 |

3.14 No. of linkages created during this year | 24 |

3.15 Total budget for research for current year in lakhs:

From Funding agency | Nil | From Management of University/College | 10.25000 lakh |

Total | 10.25000 lakh |

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	08
	Granted	Nil
International	Applied	Nil
	Granted	Nil
Commercialized	Applied	Nil
	Granted	Nil

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
05	02	02	01	Nil	Nil	Nil

3.18 No. of faculty from the Institution who are Ph. D. Guides | 39 |

and students registered under them | 72 |

3.19 No. of Ph.D. awarded by faculty from the Institution | 13 |

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

JRF | Nil | SRF | Nil | Project Fellows | 01 | Any other | Nil |

3.21 No. of students Participated in NSS events:

University level | 151 | State level | 01

National level | | International level |

3.22 No. of students participated in NCC events:

University level | 02 | State level |

National level | 02 | International level |

3.23 No. of Awards won in NSS:

University level | | State level |

National level | | International level |

3.24 No. of Awards won in NCC:

University level | | State level |

National level | | International level |

3.25 No. of Extension activities organized

University forum | | College forum |

NCC | | NSS | 11 | Any other |

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

- NSS unit of RCOEM conducted its annual event Prerna 9.0, a four day event from 15th Feb to 18th Feb 2017. The main aim of this programme is to create social awareness among technocrats by the means of various inter-collegiate competitive events. 'JUNOON' showcased talents and wonder skills of especially able children. Their performance was awestruck. 'Health Checkup camp'. As it is said, a healthy mind dwells in a healthy body, thus, a team of 11 Doctors from various hospitals visited the College and created awareness regarding certain diseases and problems. Blood donation, The Camp was carried in

association with Dr. Hedgewar Blood Bank. It saw 300+ donors including the students. On 18thFeb 2017, the Unit visit to 'Malegaon' village, which is approximately 65 km from Nagpur. It carried 90 volunteers and a team of 10 Doctors With a motto to provide proper health care and awareness to the people living there.

- Organ donation: - RCOEM NSS Unit participated in a rally to mark the importance of organ donation. Rally was organized by NSS unit of Rashtrasant Tukadoji Maharaj Nagpur University , which was held on 13th August 2016 from Bajaj Nagar square to LAD college, Nagpur. Around 1000 NSS volunteers enthusiastically participated in this rally.

- Blood Donation: - a Blood Donation Camp was organized by NSS unit of RCOEM , in association with Dr. Hedgewar Blood Bank on 27th August 2016. Around 175 donors donated blood and gave their precious contribution in this noble cause.

- Cleanliness drive:- Swachhata Pakhwara was observed from 23rdAugust 2016 to 31st August 2016 under Swachha Bharat Abhiyan under Government of India. During this Swachhata Pakhwara, our NSS volunteers conducted cleanliness drives at various places such as college campus, classrooms, orphanage etc.

- Cloth donation: "We make a living by what we get, but we make a life by what we give." With this thing in mind NSS unit of RCOEM had donated clothes on 16th October 2016 at YUVA JYOTI orphanage to fulfil their need.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	11.02 Acre		College	11.02 Acre
Class rooms	56		College	56
Laboratories	74		College	72
Seminar Halls	08		College	18
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	151	15	College	166
Value of the equipment purchased during the year (Rs. in Lakhs)	2460.65 Lakh	37.86103 Lakh	College	2498.51103 Lakh
Others				

4.2 Computerization of administration and library

Administration and Library are well equipped with modern computing facilities.

Computerization of administration:

- Use of GEMS for admission processes, exam processes, finance, purchase and infrastructural requirements.
- Use of GEMS for staff attendance and leave monitoring.
- Online tests carried for Training and Placement activities.
- Campus under CCTV surveillance.

Computerization and access to library facilities are as follows:

- Use of Library Software GEMS- Library uses GEMS software that supports all in-house operations of the Library. 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, ASCE and EBSCO, NPTEL video lectures, DELNET, Project Report and Question Papers for UG & PG programmes. For this purpose a separate arrangement in Digital Library is made where students and staff can access, download, print the open access journals and research papers, also they can listen to the video lectures with the help of audio-visual aids.

- Online OPAC System- to locate books available in the library.

- Scanning, Posting and online access of Question Papers and Project Reports on College website.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	82,390	2,31,98644	932	5,32,526	83,322	2,37,31,170
Reference Books	3139	25,42,301	---	---	3139	25,42,301
e-Books	---	---	---	---	---	---
Journals	114	84,11,472	108	3,19,050	108	87,30,522
e-Journals	IEEE, ASME, ASCE, EBSCO	79,57,962	IEEE, ASME, ASCE, EBSCO	40,90,432	IEEE, ASME, ASCE, EBSCO	1,20,48,394
Digital Database	DELNET		DELNET		DELNET	
CD & Video	1433	---	167	---	1600	---
Others (specify)	---	---		---	---	---

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	1785	Every Department has Computer Labs	200 Mbps	Every Department has Browsing Centres	93	180	1512	
Added	200		Nil		00	00	200	
Total	1985		200Mbps		93	180	1712	

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

- Campus is Wi-Fi enabled including hostels.

- Internet access to Staff and Students in Departments.

- Video Conferencing facilities available.

- Online Aptitude Test for students.

- Training to teachers to use Governing Education Management System (GEMS) software.

- Institute has been registered as a Nodal Centre for the virtual labs in Nagpur Region. Under this, the students and the faculty members are made aware about the virtual labs that are available 24 x 7 on the portals of IIT's. These labs are exclusively designed by the IIT's.

- In-House training is imparted to non-teaching staff for skill up-gradation.

4.6 Amount spent on maintenance in lakhs:

   i) ICT   89.30786 Lakhs

   ii) Campus Infrastructure and facilities   55.45830 Lakhs

   iii) Equipments   90.99637 Lakhs

   iv) Others   64.37294 Lakhs

          Total: 300.13547 Lakhs

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Student's representatives in IQAC have enhanced the awareness about quality amongst them.

- Student's participation in Board of Studies Meetings.

- Imparting 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.

- Imparting information on various support services during induction programme 'Drushti' organized for first year students.

- 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 – departments have student mentor scheme, student mentor scheme under SRC, Higher Education Cell, and psychological cell to guide students.

- Grievance redressal cell is active.

- IGNITE: A program to bring alumni and students together, to promote the students to set their career goals at an early stage and to start working for achieving them with the help of alumni acting as mentors.

- 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 in GEMS and otherwise 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: Mentors are allotted to track the mentee.

- Examination system has provision to monitor student progression.

- Counseling sessions are scheduled in regular academic activities and a designated counselor attends to the needy students.

- The institute has alumni association with branches in different parts of the country and abroad. 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.

- Yoga sessions are conducted in the college for physical wellbeing of students.

- Creating avenues for students to develop and enhance their skills in terms of organizing events and participation in various events.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3894	890	34	

(b) No. of students outside the state

348

(c) No. of international students

14

Men

No	%
2898	60.57%

Women

No	%
1886	39.43%

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
3887	109	56	662	09	4723	3797	130	63	781	13	4784

Demand ratio   Dropout %

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

- Aptitude tests, Mock GD's, Mock PI's are conducted for students in house by experts from the college and also in collaboration with outside agencies thus preparing them for competitive examinations.

- Orientation Programme on communication skills conducted.

- Technical Workshops are conducted.

- Guest Lectures are also arranged for CAT/GRE/ GATE preparation. 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.

- Guidance for Indian Air force, Indian Army, Indian Navy is provided by organizing seminars by officers from the Air force, Navy, Army.

- Higher education cell in college helps in solving various queries of the students.

- Guidance at college as well as department level is provided.

- Student Interaction with Alumni, Academic & Industrial experts

No. of students beneficiaries   1000+

5.5 No. of students qualified in these examinations

NET [ ]   SET/SLET [ ]   GATE [24]   CAT [18]

IAS/IPS etc [ ]   State PSC [ ]   UPSC [ ]   Others   GRE/TOFEL: 11/06

5.6 Details of student counselling and career guidance

- Timely guidance is given on type of jobs available, placement possibilities and for pursuing higher studies program in India and abroad universities.

- Guidance activities at Department level:
  - Interview and interaction with students, in order to gauge their interests, strength and weakness which allows the department to plan and organize Curricular & Co-curricular activities, guest lectures, etc
  - Conduction of classes/guest lecture for Aptitude, GD and PI
  - Conduction of workshops and guest lectures about the avenues ahead.
  - Alumni meet and alumni interaction organized at all the departments.

- Psychology cell in the college to help students.

- Teacher Guardian Scheme at Departmental level.

- Counselling at central and departmental level for students.

- Guest lecture's for higher studies in India and abroad are conducted.

- Preparatory Sessions on Career in Defence services are conducted.

- Interactive Sessions by Alumni in various fields in different branches are arranged.

- Students are highly ambitious and opt for higher education from foreign countries. The college provides complete counselling including university selection, documents preparation and VISA process for students applying to USA, UK and France.

- Workshop on Aptitude Development for students is conducted every year.

- DAPAC (Departmental Academic Performance Advisory Committee) also guides academically weak students for performance improvement.

Activities conducted by Training and Placement Department:

- A programme named as KNOW YOUR BRANCH is being initialized from this session onwards for 2nd year students where they are made aware about different domains and prospects available in their branch by Industry experts.

- Two days Soft skill training program of Barclays, NASSCOM Foundation Global Talent Track Partnership is organised for all final year BE, MCA students on 4th -5th October 2017. In which three trainers from GTT guided our students about soft skills. Global Talent Track (GTT) has partnered with Universities; Education Institutions and Government bodies in India to provide quality with scale through programs and to deliver a innovative technologies and compelling content.

- Midas Care Pharmaceuticals Pvt. Ltd. organized seminar on 13th July 2017 for Final year students.

- IOT by campus connect Pune organized a workshop for faculty members on IOT from 11th July to 13th July.

- A student interaction session for CS/IT pre final year students and MCA final year students was organized on 1st August 2017. The programme was hosted by Mr. Gaurav Gandhi, Academic Relationship Manager - India West of Tata Consultancy Services. He elaborated the students on recent trends in Technology.

- A guest lecture on career in civil services was organized for final year and pre final year students on 27th September 2017. Mr. Sanjeev Chetule, Assistant Commissioner (P) (EOL), Ministry of finance, Govt. of India has consented for addressing our students. His team has also agreed to mentor our students for taking career in civil services on long term basis.

- A guest lecture on Upcoming Wireless Technology and career prospects in mobile communication Industry was organized for second year BE (EN/EC/EDT) students on 3rd November 2017.The guests lecture was delivered by Mr. Prasanna Godse, Tata Tele services, Nagpur.

- Armed forces Exhibition and Career guidance Seminar for third year students has organized on 30thJanuary-2017.

No. of students benefitted   1200+

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
77	877	592	---

Placement services provided to students

- To conduct online Placement Registrations.

- To conduct Technical Skills enhancement training programmes.

- To conduct soft skill training of Barclays sponsored by NASSCOM FOUNDATION for all branches pre final year and final year students.

- To encourage students for Full semester Internship programme.

- To conduct Different Industry level Aptitude test like AMCAT, Monster College etc.

- To conduct Guests Lectures for 2nd yr students to make aware them about coming trends in Industries.

5.8 Details of gender sensitization programmes

Activities conducted under Women Empowerment Cell:

- Awareness Program on Cervical Cancer on 3rd August 2016

- Self Defence Workshop on 5th August 2016

- Aerobics Workshop on 10th August 2016

- Guest lecture on Motivational Topic "Be Positive" on 24th September 2016

- Seminar on Women's Safety on 29th September 2016

- Swacch Bharat Abhiyan celebration on 2nd October 2016

- Visit to Shradhanand Anathalaya Orphanage on 7th March 2017

- Anti-sexual Harassment Committee is functioning effectively.

5.9 Students Activities

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

State/ University level | 127 | National level | 11 | 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

RCOEM won KC Bajaj Trophy by the hands of P. Gopichand (International Badminton Player/ Coach) for Best College in Sports Promotion from Sports Journalist Association of Nagpur & Raisoni Achievers in Annual Award 2016 on 23rd Oct 2016.

RTM Nagpur University Intercollegiate Tournament	**Position**		**Games**
	Winner	03 games	Basketball (M), Swimming(W), Lawn Tennis (W),Table Tennis (M&W), Badminton (M), Swimming (M) Basketball (W), Chess (W), Athletics (M), Gymnastics (M)
	Runner-up	04 games	
	2nd Runner-up	02 games	
	Won 1 silver in athletics and 1 in Gymnastics		
Invitational Intercollegiate Tournament	Basketball (M) team secured 1st position in Dhanwate National College Krida Mahotasava		
	Chess (W) team secured 1st position in VNIT intercollegiate invitational tournament.		
	RCOEM won **overall championship** in udaan17.0 sports fest organized by PIET by securing 1st place in basketball(M & W), table tennis (M & W), volleyball (W) chess(W), and securing 2 position in cricket (M) and tug of war (M & W).		
	RCOEM Football Team Secured 2nd Position in Hislop College Invitational Football Tournament		

Sr. No.	Name	Branch and year	Level
1	Krupal lambat	EC IV year	Stood 2nd in all India sea swimming competition org. by Indian Navy
2	Antra mehta	Industrial III year	Member of Maharashtra Womens basketball team in all Indian c'ship held at Mumbai.
3	Mayuri sengar	EN III year	Asst. Coach of Maharashtra women U-18 volleyball team in national c'ship held at Chitradurg Karnataka and secured 4th position.

National level ☐   International level ☐

Cultural: State/ University level ☐   National level ☐   International level ☐

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution		
Financial support from government		
Financial support from other sources		
Number of students who received International/ National recognitions		

5.11 Student organised / initiatives

Fairs   : State/ University level ☐   National level ☐   International level ☐

Exhibition: State/ University level ☐   National level ☐   International level ☐

5.12 No. of social initiatives undertaken by the students   By NSS

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

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision of the institution

Shri Ramdeobaba College of Engineering and Management envisages the institute par excellence, providing world class technical and management education.

Mission of the institution

To impart quality education in the field of Engineering and Management and to foster mutually beneficial relationship with industries to create an intellectually stimulating environment for learning, research and for promoting professional and ethical values.

6.2 Does the Institution has a management Information System

Yes.

"GEMS" is a cloud based education governance ERP system at RCOEM.

Overview: It is a comprehensive module based system which enables the functioning, governance and management of diverse education related activities of the college. The various modules allow effective integration of issues related with academics, non academics and finance; their analysis as well as report generation. It implements role based access and policies for performing various activities conforming to the hierarchical organizational structure of the college.

The modular design of GEMS enables the various academic as well non academic activities (related to finance, stock etc.) to be handled as independent modules. For e.g. Academics module implements all those things that are central to learning, education, and teaching, like handling courses and their configuration, syllabus design, continuous evaluation methods etc. In order to handle the entire repertoire of academics it is further divided into various sub modules as follows: Attendance, Course File, Examination, Class Management, Research Project, Mentoring, Collaboration, Online Tests and so on.

The Finance module offers Expense Management in an integrated manner across the organization and includes the following sub modules: Accounts, Admissions, Salary, and Purchase etc.

Thus, using the latest computing platform to deliver applications and data storage, GEMS completely manages the information processing needs of the college.

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

6.3.1 Curriculum Development

- Curriculum is the foundation of the teaching-learning process. The development of programmes of study, teaching and learning resources, lesson plans and assessment of students are all based on curriculum.

- Board of studies (BOS) has been constituted which includes one chairman (Head of the Department), all faculties in the Department as members, two student representatives, two experts from renowned academic institutions and one expert from industry. The syllabus is briefly discussed in BOS meeting with various experts and finalized only after the approval of BOS.

- The curriculum is focused on outcome based education and each course has defined objectives and outcomes, which are discussed with students during course conduction.

- References of reputed institution's curriculum like IIT and NIT are used to develop curriculum.

- Feedback from stake holders is taken into consideration for framing curriculum.

- Inputs from Alumni working in Industry are taken to design the curriculum as per the current requirements of Industry.

- Inclusion of Industry supported elective courses.

- Seminars and Guest Lectures from eminent personalities are organized.

- Open Electives: To bridge the gap between institute and industry requirements, the offering of open elective subjects is made mandatory to the students. The electives from other disciplines are also available to students. The understanding of new technology in Interdisciplinary domain is the main objective of offering open electives.

- Provision of one year internship for PG students in final year and six months internship for UG students in final semester.

- Choice Based Credit System (CBCS) implemented for Post Graduate Programmes.

- Program elective, group elective and open elective offered to ensure interdisciplinary learning.

- Industry Projects: The students for industry projects are selected on the basis of aptitude test conducted by Industries. The problem definitions for project in VII and VIII Semester are defined collaboratively by industry and the Institute. The projects are carried out under the guidance of one external guide from industry and one internal guide from the institute.

- Departments have well defined process to evaluate the quality of students based on two main parameters i.e. Result of students in the examination and Attainment of Program outcomes. Departments have defined set of Programme Outcomes for Under Graduate and Post Graduate courses.

- The Programme assessment and quality improvement committee discusses the results with faculty to identify the need for improvement and accordingly suitable corrective measures to be implemented are decided. The quality improvement strategies include corrective steps at course level as well as program level. The measures like modification and revision in course contents are done at course level while additional courses / changes in scheme are proposed at program level.

6.3.2 Teaching and Learning

- NPTEL (National Programme on Technology Enhanced Learning) video and web courses made available to the students through the college library. Students use this resource for self study.

- Power point presentations and other course related study material is made available on the Institution MIS website "GEMS". Every student has access to the software and can download the material for self reference.

- After each Internal Test, course coordinator identifies the students whose performance is below the satisfaction level. Course coordinator conducts remedial classes and personal counselling for these students. This helps to improve the performance of the student, which ultimately improves the course outcome and hence the PO attainment.

- SGPA Target Planner Tool: Planner tool is developed to guide students for the improvement of CGPA. Considering the present CGPA and target CGPA, the planner guides the student about the grades he/she should get in the subsequent examinations to achieve the goal. The tool motivates the students to put additional effects for improving the performance level.

- Flexibility in mode of Teachers Assessment. Assignments / Minor Projects / MCQ test / Open Book test etc. are carried out under Teachers Assessment.

- Students are motivated for the self study and for presentations on recent trends.

- Students are encouraged to take industry sponsored projects to solve industry problems.

- Continuous evaluation of Major Projects by an internal assessment committee.

- Well defined rubrics for the evaluation of lab and project.

- A variety of learning contexts including guided and independent study, project-based learning, collaborative learning, experimentation, etc.

- Learning environments (library, departmental library, computing facilities etc.)

- Video lectures prepared by faculty.

- Support to foster student achievement (e.g. counselling, career guidance, mentoring etc.)

- Curriculum and course contents are designed as per the need of industry.

- Tutorial classes help students to enhance their knowledge in the subject.

- To improve the quality of teaching, orientation programme for faculty is conducted.

- Use of ICT in teaching learning process.

- Inputs from IQAC, Department Academic Advisory Committee, parent teacher association and various feedback mechanisms is considered for improvising the teaching-learning.

- Concepts like Flipped class room, Google class room, video lectures, MOOC used to enhance learning.

6.3.3 Examination and Evaluation

Examination Evaluation process is completely Transparent

- Institute has constituted Examination Committee as per the Maharashtra University Act 1994 and the provision made in the XI Plan of U.G.C. guidelines.

- Three internal assessment tests in each semester and one end semester examination are in place to evaluate the students' performance and are conducted according to college guidelines.

- Faculty nominated as Officer Incharge will ensure the conduction of the end semester examination.

- Continuous evaluation in laboratories helps to enhance the practical knowledge through regular monitoring the progress.

- The moderation of question papers of End Semester Examination is carried.

- Spot / Central Evaluation of answer books.

- Transparency in evaluation of answer books. Valued answer books shown to students. Grievance, if any, revaluation done.

- Moderation of Internal Test papers to ensure quality of examinations.

- Post Graduate Post examination process decentralized.

- Students submit examination forms online.

- Result processing by software GEMS.

- Online result declaration.

- Gazette and TR are generated through MIS. Semester Grade points are calculated and grade cards are generated.

- Projects are evaluated by a committee at the department level.

6.3.4 Research and Development

The Research and Development Cell is constituted with the following aims:

1. To cultivate strong research culture amongst faculty members and students.

2. To embed research in all levels of academic activity (undergraduate, postgraduate and PhD).

3. To increase the quantity and quality of our research outcomes.

4. To increase the sources of external research funding in order to build capacity, create new knowledge and research quality.

In order to achieve this following initiatives / actions are undertaken

1. Research Incentives:

In order to motivate the faculty members following incentives are provided

- Incentives for Publications in Journal

- Incentives for attending Conference / Workshop / STTP / FDP / MDP / Seminars / Training in India.

- Incentives for presenting paper in Conference abroad

- Incentives for Patents filing, publication and examination.

- Incentives for pursuing Part Time PhD

- Incentives to Students for Publications in Journals

2. Internal funding for research:

- Research fund for young faculty members: The seed money is provided to faculty members for carrying out his/her research.

- The annual departmental R&D fund allocated to every department every year may be utilized for departmental R&D activities.

3. Intellectual Property Rights:

- College has dedicated IPR Cell which provides guidance, support and resources to all the faculty members, staff and students of RCOEM and facilitate protection and deployment of intellectual property.

- The cell creates awareness about the importance and role of IP Rights. It also facilitates the training of faculty members, staff and students regarding IPRs.

- The cell provides administrative, technical and legal support to faculty, staff and students for drafting and filling their patents

- The cell also helps the faculty members for getting copyrights to their work

- The cell also provides legal help through hired patent attorney

4. Incentives and Motivation for Pursuing Higher Studies:

- Faculty member of the college are allowed to pursue Part-Time PhD.

- Faculty members those are pursuing Part-Time PhD may get up to three months full salary study leave.

- The faculty members those pursuing part-time PhD at RCOEM or other Institutes of national repute like IITs/IISc/IIITs/NITs are eligible for reimbursement of annual PhD fees.

5. Faculty Development initiatives:

- A workshop sponsored by Department of Science and Technology on "Recent Trends and Technologies in Big Data Analytics" was organized by Department of Computer Application on 19-22 December 2016.

- An Orientation Programme for newly recruited faculties was organized by Internal Quality Assurance Cell, RCOEM, Nagpur, on July 11-16, 2016 for one week as a prospect towards faculty development.

- Every Saturday the Department conducted the Faculty Development Programme on Research for the internal faculty to sensitize and promote research. Share the research work of the faculty and sensitizing about the software etc.

6. Other initiatives:

- M. Tech. and B.E. students are encouraged to pursue projects based on research outcomes published in referred journals and conferences.

- M. Tech. students are encouraged to publish their research in Scopus / SCI indexed journals only.

- Students are also provided opportunities to carry out industry associated / sponsored / assisted projects in the curriculum.

- College is involved in national initiatives through MHRD under Rashtriya Uchchattar Shiksha Abhiyan (RUSA) in realizing ICT enabled Smart Universities.

- College is also associated with MSMEs of the region in developing solution to their problems.

- Visvesvaraya Ph.D. scheme of DeitY, Govt. of India has been implemented.

- Online journal subscriptions are accessible by the students as well as faculty for research.

- Research Groups are formed based on faculty expertise and research interest. Their regular meetings are organized to assess the progress of research work.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The ICT facilities and infrastructure available in the library are as follows:

- Digital Library.

- Bar coding of Books.

- Scanning and Xeroxing facility.

- Availability of e-journals.

- Use of Databases- DELNET.

- Adequate seating arrangement in the library.

Initiatives:

- Conducted DELNET workshop on 15th November, 2016.

- Identified the books mentioned in the syllabus which were not available in the library against each branch under UG & PG programmes and the list was sent to the concerned branch for recommendation for purchase.

- Access to E-journals and net facility from the Digital Library.

- Suggestion box was installed in order to get direct feedback from students.

- Display of New arrivals on notice board in the library and on OPAC.

6.3.6 Human Resource Management

- Welfare Schemes for staff and faculty.

- Group insurance for Staff, faculty and Students.

- Recruitment of teaching and non teaching staff as per requirement.

- Orientation programmes for newly recruited faculty.

- Orientation programmes for non-teaching staff.

- Encouragement to faculty for attending FDP, STTP, Industry training, Ph. D. etc.

- Leaves applicable as per rules.

- Incentives for Publication to faculty.

- Share in Consultancy to faculty.

6.3.7 Faculty and Staff recruitment

Recruitment Procedure:

- Every year requirement for staff is sought from the Heads of the Department. The requirement is calculated on the basis of Workload and Staff: student ratio prescribed by the AICTE.

- Requirements submitted by the Head of the Department are scrutinized at the Principal's level.

- Requirement Submitted before the Board of Management/Local Management Committee for approval and creation of posts.

- After deciding the number of staff viz. Professor, Associate Professor and Assistant Professor, proposal is being submitted to the authority for creation of post as per AICTE norms.

- After approval for creation of posts of the authorities of the college, the proposal is submitted to the University for Approval to the advertisement of posts.

- Advertisement is issued in leading News Papers of Local and All India circulation as per the approval granted by the University.

- Applicants have to apply Online with require Fees.

- Applications are forwarded to the concern Departments for scrutinizing the application as per prescribed norms and final merit list is prepared.

- Simultaneously the Board of Management has to suggest the subject wise panel of experts and nominees for consideration of Hon'ble Vice Chancellor of the University as required by the UGC/University norms.

- The Hon'ble Vice Chancellor recommends a panel of five persons each from the list of experts and nominees suggested by the authority of the College for appointment of two subject experts and two nominees to the Chairperson of the college.

- The Chairperson has to appoint two subject experts and nominate two nominees from the panel recommended by Hon'ble Vice Chancellor of the University on the selection committees.

- Finalization of interview Schedule.

- Appointment letter to the Members of Selection Committees.

- Interview Call to candidates (By e-mail, SMS, Telephone call and physical call letter by post)

- Verification of documents by staff of concerned department one hour prior to the start of interview.

- Interviewing the candidates by the selection committee/s.

- Finalize the candidate and preparation of Report of Selection Committee (Minutes).

- Issue of the appointment order/s to selected candidate and collection of the consent letters.

6.3.8 Industry Interaction / Collaboration

- Involve industry professionals in curriculum design, delivery and assessment so as to make students industry ready.

- Open elective syllabus are framed and delivered by Industries such as Global Logic India Pvt. Ltd., Persistent System Pvt. Ltd., InfoCepts Technologies Pvt. Ltd., Infosys in different Departments.

- III cell is actively involved in arranging and assisting Industry Meet, Industries involvement in course curriculum design, Expert Lectures, Industrial Training for the Students, Industrial Visit – Study Tour, Student Projects, Training for the Faculty, Incubation and Entrepreneurship Orientation Programs.

- Empower-17, a unique mega event having the participation of 16 industries of repute and participants from over 15 Engineering colleges in Central India was conducted in the department of Electrical Engineering, at the institute. "Empower" conducted for fourth time has now become one of the most sought after event by the industrial houses and the students as well, is recognized as "innovative idea" by the NAAC committee of UGC, Govt of India.

- To provide ample opportunities for industry exposure to students and faculty through industry visits, summer internship and industry projects.
  - Industry Visits Arranged: 31
  - Students participated in various competitions such as E-yantra Robotics competition, IIT Mumbai, ROBOcon-16 – International robotic competition, Pune, ACREX 2016 held at Bombay Convention and Exhibition Centre, Goregaon East, Mumbai.
  - Students have undergone internship in IT companies Siemens Technology & Services, Pvt. Ltd, L&T Infotech, Capgemini, Novatech, ADCC, Kratin Software Solutions Pvt. Ltd, HCL infotech, NEERI, MOIL etc. Also students are doing internship under RGSTC-TIFAC–MSME Internship Scheme, supported by Rajiv Gandhi Science and Technology Commission (RGSTC), Government of Maharashtra and Technology Information Forecasting and Assessment Council (TIFAC), Department of Science & Technology, Government of India, for Providing Technical Support to the Micro Small and Medium Enterprises (MSMEs) by Leveraging the Capabilities of Students and faculty of engineering & technical institutions.

- To help industry professionals/students to upgrade their qualification, knowledge and skill through higher education, continuing education programme and training.
  40 days Multi skill Development Training Program for Hindalco Industry's employees, 12 Weeks Retail Management and Aircraft Maintenance Engineering Courses for Directorate General Resettlement, skill development programs for employees and staff of Power Grid Corporation of India Ltd., AG Office, Nagpur, MOIL, Ordinance factory Ambazari under MOU's has been conducted.

- To cultivate symbiotic relationship between college and industry as well as college and other research institutes to help industries to solve their problems
  Total MOUs: 47

6.3.9 Admission of Students

All Admissions at Shri. Ramdeobaba College of Engineering and Management are carried out purely on the basis of merit and in a transparent manner by way of counselling. Over the years the institute has gained immense popularity across the country due to its open and transparent admission process through open counselling.

Computerization of Process of Admission:

- Admissions are managed through 'Admission Module' of software GEMS.
- All the admissions are to be finally uploaded on DTE website as per schedule prescribed.
- All the admissions are also to be submitted online to Pravesh Niyantran Samitee (Admissions Regulating Authority) online.

6.4 Welfare schemes for

Teaching	- Gratuity - EPF - Medical Leaves - Mediclaim Insurance Scheme - Group Insurance Scheme - Staff Co-operative society
Non teaching	- Gratuity - Medical Leaves - Mediclaim Insurance Scheme - Group Insurance Scheme - Staff Co-operative society
Students	- Medical facilities - Accidental Insurance Schemes - College offers partial/complete financial support from 'Students Welfare fund' to students who are unable to pay their tuition fees and help them complete their Engineering

	• Alumni offer financial support to meritorious students and pay their complete one year tuition fees every year. • Mentoring & Counseling, Career Guidance, Student Chapters • First aid unit in every department / building.

6.5 Total corpus fund generated | Nil |

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	Yes	External Members of reputed Institutes like IIT's and NIT's	Yes	At Departmental Level
Administrative	--	--	Yes	ISO

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?

- Setting of Question papers by external subject experts also.

- Moderation of Question papers by external subject experts also.

- Established spot valuation centre for smooth conduction of valuation.

- Online submission of examination forms.

- Continuous evaluation system for theory and laboratory courses.

- Proposed Choice Based Credit System for Under Graduate and Post Graduate.

- Proposed Decentralization of Post Examination work.

- Computerized examination form submission, result processing and declaration; Gazette, TR and grade card generation (through GEMS).

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

University has nominated its representatives and the subject experts on Board of Studies and Academic Council to promote and implement autonomy in respect of the following:

- To develop the curriculum, prepare the academic regulations and conduction of internal and end semester examinations.

- To issue Grade Card of each semester with SGPA and CGPA with college emblem and seal.

- To prepare academic and examination schedules.

One representative from university is also in Board of Management (BOM).

6.11 Activities and support from the Alumni Association

- Alumni Association provides a common platform to all our alumni to interact with each other. Their years on campus meant more than learning and self discovery. The alumni association carries out various activities like mentoring current students, placement assistance, internship assistance, helping economically weak meritorious students through student welfare fund as well as scholarship sponsored by alumni, arranging alumni meets etc.

- Counselling Session regarding admission procedure was conducted:

  The Alumni Association organized a counseling session for admission of First Year B.E., Second Year B.E., M.B.A. & M.C.A. in RCOEM Auditorium, RCOEM Campus, Katol Road, Nagpur. Dean Admissions, explained the complete process of Engineering admission. Dean Training and Placement and Professor In charge Alumni Relations, threw light on Placements in RCOEM. An interactive session was held detailing admission procedure, documents required, fee structure and other related information.

- Alumni have sponsored scholarship for five meritorious and economically weak students of RCOEM till completion of their graduation.

- RCOEM Alumni Association organized a seminar "Higher Education in Abroad" on 27th August 2016. The seminar got a huge response with a participation of nearly 100 students. In the seminar students were briefed regarding GRE and TOFEL tests, MS degree options, On Campus Job, F1 Visa, Cost and Expenses in US and UK Universities. There was a panel discussion on all the queries of student. The panel included esteemed alumni of RCOEM, Rahul Philip (2007 EN), Saurabh Kothari (2007 Ind), Kishore Murarka (2007 EDT) AmeyaBansod (2009 EN), KetanPaithankar (2009 EN), Rohan Sasan (2013 EN). The students found the session highly informative and useful as that will help them to plan their higher education in US.

- Alumni Visits/Alumni Student Interactions are conducted.

- Alumni are invited as Chief Guest/Key Note Speaker to address and guide the students.

- Alumni interaction via STTP.

- Video interaction with the Alumni to guide students is also conducted.

6.12 Activities and support from the Parent – Teacher Association

- Parents meet is held at all the departments creating a stage for interaction of parents with HOD and other faculty members of the department once every semester.

- Student's performance is discussed during the meet as growth of the student is the major concern.

- Various schemes and facilities available in the college and department for enhancing the academic growth of the student are discussed.

- Information regarding training and placement is provided.

- In every parent meet, feedback from the parents oral and written is taken and analysed for further improvement and necessary actions.

6.13 Development programmes for support staff

Development programmes for supporting staff are conducted every year regarding upkeep of laboratories. Training provided in computer skills, knowledge of equipments in laboratory etc. The supporting staff is motivated to pursue their higher studies.

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

- Activities undertaken by REEF (Shri Ramdeobaba College Engineers for Environment Forum) undertook the following activities in the session 2016-17 to make the campus eco-friendly:

  Campus Monitoring: REEFians monitored the greenery in the college campus once in a week. They were divided into seven groups for this purpose. The college campus has also been divided into seven patches. Each group is allotted a patch to monitor. They did bird watching for an hour in the morning and evening, once in a week to record the bird species found in the campus. They also monitored the condition of trees and plants found in their patch. Each group submitted an online response Google form for the respective patch so as to record the monitoring activity. REEF is planning to make a Biodiversity Register of the College and this monitoring activity helps record the bird and tree diversity present in the campus.

  Bird Baths Installation: REEF members installed bird baths on 1st April 2017 at various places in the College campus to fulfill the water requirements of thirsty birds. A total of 14 bird baths were installed. These bird baths are taken care of by the gardening staff along with the REEF members.
  The College campus is rich in bird biodiversity and thus it's a step to conserve it. A video was also made by REEFian Atharva Mangrulkar regarding the activity and posted on the REEF's Facebook page to spread awareness about the bird baths in College campus, and urged the College students and staff to refill the empty bird baths and also install bird bath at their place to help the birds survive the rising temperatures in the summer season.

- Promoting paperless environment. Continue to reduce paper usage by effective MIS.

- Making the campus go-green by planting trees in the campus.

- Buildings are designed in such a way to be effective in utilization of natural light and ventilation.

- Plastic Free Campus.

Criterion – VII

7. Innovations and Best Practices

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

- Improvements / Additions have been done in various GEMS modules.

Academic modules for –

- Attendance entry
- On-line submission of examination form
- On-line declaration of results
- Online assignment tests

Non-Academic modules for –

- Library
- Communication and Announcement
- Office Management
- Faculty and Student Profile

Administrative modules for –

- Finance and Accounts
- Admissions
- Salary
- Purchases
- Leaves

- Rain Water Harvesting

- Renewable Energy

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

- Internal and External Academic Audit conducted. External Academic Audit conducted from 19th - 29th August 2017.

- Internal Autonomy audit conducted and report prepared.

- External autonomy audit conducted on 1st October 2016.

- For Autonomy extension committee visited on 3rd March 2017 and college received extension of autonomous status for 6 years.

- Environmental Audit conducted.

- Choice Based Credit Scheme (CBCS) implemented for all Post Graduate Programmes.

- Post Examination work for Post Graduate Programmes decentralized.

- Three Post Graduate and Four under Graduate Programmes NBA accredited.

- Submitted proposals to various funding agencies and received grants from various government funding agencies.

- Institute ranked 64th amongst all Engineering Colleges of India as per National Institutional Ranking Framework (NIRF), MHRD, Government of India

- RCOEM RGSTC-TIFAC–MSME Internship Scheme for UG students.

- Encouragement given to carry out industry based projects.

- Provisions made to implement one year internship for PG students and six month internship for PG / UG students.

- Academic Advisory Committee formulated.

- Conferences/Seminars/Workshops etc. conducted.

- R&D policy reframed to encourage faculty pursuing Ph.D. and research.

- RCOEM witnessed its 1st Graduation Ceremony at College campus on 24th December, 2016.

- MIS Module implemented for Result Processing.

- New Laboratories were introduced in various Departments.

- Library renovation work completed.

- Decentralization of Post Examination work for Post Graduate Programmes.

- One smart classroom in MBA Department constructed.

- Construction of Controller of Examination Office completed.

- Research proposals communicated to different funding agencies by faculty members.

- Memorandum of Understanding (MoU's) with industries by various Departments.

7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

- Transparent Admission Process.

- Transparent Evaluation Process.

*Provide the details in annexure (annexure need to be numbered as i, ii,iii)
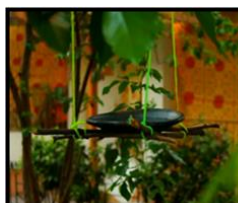****Details of Best Practices provided in Annexure IV**

7.4 Contribution to environmental awareness / protection

REEF (Shri Ramdeobaba college Engineers for Environment Forum) undertook the following activities in the session 2016-17 to make the campus eco-friendly:

Campus Monitoring: REEFians monitored the greenery in the college campus once in a week. They were divided into seven groups for this purpose. The college campus has also been divided into seven patches. Each group is allotted a patch to monitor. They did bird watching for an hour in the morning and evening, once in a week to record the bird species found in the campus. They also monitored the condition of trees and plants found in their patch. Each group submitted an online response Google form for the respective patch so as to record the monitoring activity. REEF is planning to make a Biodiversity Register of the College and this monitoring activity helps record the bird and tree diversity present in the campus.

Bird Baths Installation: REEF members installed bird baths on 1st April 2017 at various places in the College campus to fulfill the water requirements of thirsty birds. A total of 14 bird baths were installed. These bird baths are taken care of by the gardening staff along with the REEF members.

The College campus is rich in bird biodiversity and thus it's a step to conserve it. A video was also made by REEFian Atharva Mangrulkar regarding the activity and posted on the REEF's Facebook page to spread awareness about the bird baths in College campus, and urged the College students and staff to refill the empty bird baths and also install bird bath at their place to help the birds survive the rising temperatures in the summer season.

Hanging bird baths installed by REEF (left) and a bird bath being refilled (right)

1. Global Tiger's Day 2016

REEF celebrates Global Tiger Day (GTD) annually as a flagship event. This year REEF carried out various activities in and around the city as a part of GTD. One of them was an interschool ecological awareness competition, 'How Green is your Campus? Challenge' in which 10 schools of Nagpur city participated, namely Centre Point School (CPS, Dhaba), Mount Carmel Girls High School, Bhavans Vidya Mandir (BVM, Ashti), T.B.R.A.N's Mundle English Medium School, G.H. Raisoni, Vimaltai Tidke Convent, Hadas High School, St. Vincent Palloti, Bhavans Vidya Mandir (Civil Lines) and St. Xaviers High School. The event was coordinated by REEF Green Ambassadors Rohan Dekate, Shubhlaxmi Joshi and Himanshu Gunde. The judges of the competition included REEF Mentor Faculty-Dr. Deepshikha Mehra, Mr. Raveesh Jaiswal, Ms. Shukrita Puri, Mr. Pushkar Kulkarni, Dr. Sandeep Hate and REEF alumni - Vatsalya Mathur and Pratik Gupta. REEFians approached the schools and persuaded them to participate in the competition so as to achieve the objective of creating awareness about tigers and environment among the students. This year the number of schools participating in the event reached to a new height of 10, which in turn motivated REEF to take the responsibility of providing good platform to students who wanted to contribute in saving Tigers and conserving Nature. The schools had to form an environment club and perform different tasks under six segments of the competition namely, *Vrukshawali, Khagajidnyasa, Paryavarana Mapanam, Haritaprasaar, Swanubhuti and Praadushyam.* T.B.R.A.N.'s Mundle English Medium School secured the first position whereas Mount Carmel Girls' High School turned out to be the runner-up of the competition. All the participating schools were felicitated with trophies and mementos. On final event day i.e. 29th July 2016, Music Club of RCOEM also presented a melodious song dedicated to tigers and an interactive session with the judges was also organized for the students. Apart from the competition, REEF members carried out online and offline surveys at various public places in Nagpur city. This survey gave an insight about the knowledge and opinions of citizens on the environmental issues and our national heritage-Tiger. It also helped to create awareness about Global Tiger Day among common people.

School students performing during the Praadushyam segment on 29th July 2016 in EN Auditorium

Mount Carmel Girls High School students during bird race on 16th September 2016 at Gorewada Biodiversity Park

REEFians with the participants of bird race at Gorewada Biodiversity Park

REEFian Atharva Mangrulkar giving presentation on bird watching to the students of T.B.R.A.N's Mundle English Medium School

REEFians Rohit Hazare and Supriya Kawadkar interacting about distinguishing features of birds with the students of Vimaltai Tidke Convent (VTC)

REEFians along with the judges Mr. Pushkar Kulkarni, Mr. Raveesh Jaiswal, Ms. Shukrita Puri and mentor faculty, Dr. Deepshikha Mehra

2. Ganesh Visarjan

REEF carried out an awareness and conservation activity on the occasion of Ganesh Visarjan at Police Line Takli Lake near Katol Road Square. This lake is one of the rich habitats for water birds in the city and in the previous years it was observed that its habitat was largely affected due to immersion of Ganesh Idols along with the disposal of Nirmalya and plastic waste. REEF took a step towards the conservation of this lake. On 15th September 2016, REEFians convinced devotees to immerse their Ganesh Idols in either of the two artificial ponds which were installed by NMC and to dispose the *nirmalya* in the *nirmalya kalash*. The drive was undertaken to create awareness about the PoP (Plaster of Paris) idols, how do they affect water bodies and how to identify them. REEFians explained to the devotees how to distinguish between PoP and clay idols. The drive was conducted from 8 am to 8 pm on 15th September 2016, when 785 idols were immersed in artificial ponds out of which around 245 idols were identified as PoP Idols, which implies that approximately 31.21% idols were made of PoP. Devotees are not guided by idol sellers whether the idols being sold are of clay or PoP. This is the most common reason for the sale of such a huge number of PoP idols, as told by the devotees who came to immerse the idols at the lake. As a result of efforts taken by REEFians, not a single idol was immersed in the lake and even the garbage and *nirmalya* was disposed-off carefully. In this activity, 45 REEFians including the new recruits of REEF worked tirelessly and successfully fulfilled the objective of the activity. Devotees were very cooperative and appreciated REEF's efforts and concern. The Nagpur Police also cooperated with REEFians for this activity.

REEFian Himanshu Gunde interacting with a devotee about identification of PoP idols

REEFians Gauri Chandak and Udayann Dayaanand helping the people immerse idols in artificial tank

3. Wildlife Week

Wildlife week is celebrated in the first week of October all over the country every year with the view to preserve wildlife and create awareness about dangers faced by it due to various issues. To spread this message further, REEF had organized an 'Open Air Exhibition' in the College campus for two days, 6th and 7th October 2016, which displayed informative flex related to wildlife. On 6th October 2016 which was the first day of the exhibition, the flex was inaugurated by Dr. Deepshikha Mehra. REEF had collected various creatives like paintings, photographs, poems and sketches from college students. The best entries out of the ones received were displayed on a flex in the exhibition. The theme for the poetry entries was 'An Ode to Wildlife', the theme for paintings was 'S.W.I.T.C.H (See the Wild in the Cruel Human)' and that of the photographs was 'Green Campus'. A viewer's choice award was also announced on REEF's Facebook page, for which the visitors were asked to vote for their favorite entries under all the three sections – drawing/painting/sketches, poetry and photographs. The last day of the exhibition, held on 7th October 2016, was inaugurated by Dr. V. H. Asudani, Head of Humanities Department. A flex was exhibited to spread awareness about illegal poaching of animals in different states of India and products made from them. REEFians and REEFlings explained the objective of Wildlife Week and also made the visitors aware of the threats to Wildlife due to illegal poaching and trading. The visitors also shared their experiences and views about wildlife, poaching and illegal trade.

Students viewing photographs, poems and drawings in the Open Air Exhibition

REEFian Bhagyashree Girhe interacting with the students about

Dr. Asudani, Head of Humanities Department interacting with the REEFians and onlookers at the inauguration of

4. Makar Sankranti:

Makar Sankranti is celebrated with great enthusiasm across the country and with it comes kite flying and the thread used for fly kites, the Chinese (Nylon) *manjha.* Therefore, like the past 3 years, REEF conducted activities towards spreading awareness about how kite flying with Nylon manjha is proving fatal for birds, humans and environment, and sensitizing young minds to stop using nylon *manjha*.

5. When the birds cry (Graffiti): REEF focused on spreading awareness among college students and faculty members. To achieve this objective, a wall mural (Graffiti) was made in the Open Air Theatre (OAT) of college campus. The event named as, 'When the birds cry' focused on creating awareness about bird casualties and environmental hazards due to Chinese manjha. REEFians explained the objective and concept of graffiti to the visitors, and also shared interesting facts about the origins of Sankranti, the reason behind flying kites and how the festival has turned into a competition. Many students also took selfies and uploaded it on Facebook with the hash tag - #REEFRCOEM, to express their support, thus spreading awareness through social media. The event was coordinated by REEFians Gauri Chandak and Atharva Mangrulkar.

Dr. S D Mohagaonkar (Dean, Second shift) and Dr. Deepshikha Mehra along with REEFians during the inauguration of 'When the birds cry' at OAT

REEFians Anurag Tiwari and Purvashree Waldey discussing about the significance of kite flying during Makar Sankranti with students

6. School Presentations: Aiming to sensitize young minds, REEFians delivered presentations on 12th and 13th January 2017, in private and government-run schools namely Tidke Vidyalaya, Centre Point School (Dabha), Hadas High School, Jawahar Convent, Bhavan's Bhagwandas Purohit Vidya Mandir (Srikrishna Nagar), St. Vincent Palloti School, and T.B.R.A.N's Mundle English Medium School. The school students were encouraged to collect manjha from their school premises and localities. Students of Jawahar Convent and Tidke Vidyalaya collected the manjha in and around their localities and submitted it to REEFians.

REEFian Arohi Naik delivering presentation on ill effects of nylon manjha in T.B.R.A.N's Mundle School

REEFians Rohit Hazare, Aditya Khedkar, Snehal Gajibhiye and Hida Ahmed delievering presentation in CPS (Dhaba) School

7. Balsadan Drawing Competition: A drawing competition was organized for the students of Balsadan, Katol Road, Nagpur (a hostel for underprivileged kids) on 9th January 2017 on the occasion of Makar Sankranti. REEFians first discussed and explained the history, origin, objective behind the festival along with ill effects of nylon manjha to the students. This activity made students aware about ill effects of nylon manjha. REEFians helped the students to incorporate their creative ideas and the festival in the form a drawing.

REEFians discussing before the drawing competition at Balsadan

REEFians Aditya Khedkar, Abhishekh Palliwal, Prachi Shrivastava, Snehal Gajbhiye and Nancy Tolani discussing the significance of Sankranti with the students

8. Manjha Removal at Raj Bhavan

On 28th and 29th January 2017, REEF conducted *manjha* removal drive at *Raj Bhavan*, a rich biodiversity hotspot in the city. The idea behind selecting *Raj Bhavan* every year for this drive is that it is situated in the middle of the city surrounded by residential area. Hence, immense *manjha* is trapped in and around *Raj Bhavan*. On 28th January 2017, the *manjha* removal activity was conducted from 12.30 to 6 pm and from 6 am to 6 pm on 29th January 2017. REEFians removed *manjha* from trees, electric poles, fences, and the water bodies that could prove deadly for birds. During this activity, REEFians spotted some amazing bird species like Verditer flycatcher, Grey-headed canary flycatcher, Black-lored tit, Orange-headed thrush and Long-tailed shrike on one hand and on the other hand they also witnessed a dead Blue Rock Pigeon entangled in *manjha.*

REEFians during manjha removal at Raj Bhavan

9. Earth Hour

REEF has been conducting activities to create awareness against many environmental issues. One of them is Earth Hour which is global movement organized by WWF (World Wildlife Fund) to unite people and act against climate change by switching off non-essential lights for an hour in the evening from 8.30 to 9.30 pm. This year Earth Hour was marked on 25th March 2017. REEF conducted various activities which involved the Balsadan kids, city Radio stations, faculty members and college students. REEFians made articles from waste and the *manjha* collected from *Raj Bhavan*. The articles were exhibited in the college campus on 25th March 2017. REEF also organized a science and art exhibition in which the kids of *Balsadan* presented science projects and creatives made out of waste like plastic bottles, bangles, newspaper etc. The faculty members of college were also encouraged to participate in a vehicle pooling activity on 25th March 2017. REEFians approached faculty members of all the departments in college on 24th March and requested them to pool their vehicles on 25th March 2017 to mark Earth Hour day. Stickers designed by REEFians Ojaswara Pathak and Pratyaksha Jha were gifted as a token of appreciation to the faculty members who participated in the vehicle pooling activity. A flex was also exhibited in college campus on 25th March 2017 which depicted an hour glass and Earth. The visitors were first asked to write their interpretation of the flex and then REEFians briefed them about Earth Hour and the objective behind the activity. They also requested the visitors to switch off lights for an hour in the evening from 8.30 to 9.30 pm.

REEFian Abhishekh Paliwal interacting with students about Earth Hour

REEFian Chitra Dangra interacting with visitors about the projects of Balsadan kids

Radio City 91.1 was also approached for spreading awareness in the city about Earth Hour. REEFians Atharva Mangrulkar, Gauri Chandak, Ojaswara Pathak and Shurti Rathi went on air and talked about the significance of Earth Hour and REEF's activities on Earth Hour day. Templates on Earth hour were circulated through WhatsApp and Facebook to make people aware about their role and encourage them to take efforts in controlling climate change. An online event for Earth Hour was also created in order to inspire people to contribute in climate change control by switching off lights for an hour, which spreads awareness about climate change.

REEFians at Radio City 91.1 office

10. Bird Rescue

On the morning of 6th April 2017, a baby house swift was found lying on the ground in the civil department. Students informed REEF members through a call. After initial assessments, it was found that it had fallen from its nest. The baby swift was cared for and given water while REEFians tried to identify its nest. As soon as the nest was identified, the swift was put back into it by REEFians Himanshu Gunde, Piyush Chhawsaria and Rishab Meher. On 26th April 2017, two juveniles of Laughing Dove were found to have fallen from their nest in a lab in civil department. REEFians Chetan Pandey and Rishab Meher monitored and looked after them until their mother arrived and took care of them. This are few of the many rescues that REEF has done this year. Owing to high temperatures and lack of water, these cases are common in college campus during summers.

The rescued baby House Swift drinking water

REEFian Himanshu Gunde trying to rehabilitate a House swift

11. Bird Watching With Cps (Centre Point School, Dhaba)

Birding trips were conducted to Gorewada Biodiversity Park on 12th and 19th March 2017 with the students of CPS Dhaba from standard 4th to 8th and 1st to 3rd respectively. They were first briefed about the significance, basics, and dos and don'ts of bird watching. The purpose of the trip was to make them aware of various bird species and to encourage them towards their conservation. Interactive and informative activities were also conducted so as to make the students understand different birds, their behavior and habitat. On 12th March 2017, all the students were divided into teams which were led by REEFians. After the bird watching session, the teams had to solve a puzzle on common birds that they sighted that day. On 19th March 2017, the kids were shown a picture of a common bird and they had to identify it. It helped them understand the identification pointers of common birds easily and introduced them to bird watching. REEFians Rohit Hazare, Atharva Mangrulkar, Himanshu Gunde, Ojaswara Pathak, Purvashree Waldey, Aditya Khedkar, Smita Sreeram, Nupur Vyas, Hida Ahmed, Arohi Naik, Sarthak Pande, Anurag Tiwari, Piyush Chhhawsaria, Nancy Tolani, Neha Moharil, Chitra Dangra, Geetika Mohabe, Rishab Meher, Kartik Vaswani, Chetan Pandey, and Abhishekh Paliwal were accompanied by Mentor faculty, Dr. Deepshikha Mehra for the birding sessions.

Students of CPS solving bird puzzle (left) and REEFians with students and teachers of CPS (right)

7.5 Whether environmental audit was conducted?   Yes | √ | No | |

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

8. Plans of institution for next year

- Conduction of Internal and External Academic Audit.

- Conduction of Internal Administrative Audit.

- Conduction of Internal Autonomy Audit.

- Conduction of Environmental Audit.

- Choice Based Credit System (CBCS) for Under Graduate Programmes.

- Preparation of Perspective Plan and Roadmap for all the Departments of the Institute.

- Submitting proposal for Accreditation (NBA) for Four Under Graduate Programmes and MBA Programme.

- Conduction of International / National Conferences / STTP / Workshops / Seminars etc.

- Strengthening of RCOEM TBI (Technology Business Incubator) Foundation.

- Motivating faculty members to pursue Ph.D and research by initiating RCOEM Researcher awards.

- Submitting Research Proposals to various funding Agencies.

- Increase Industry Institute Interaction Activities.

- Improve the Internship for Post Graduate and Under Graduate students.

- Carry various audits and surveys.

- Formation of research groups to enhance R&D activities.

- Incorporate provisions of incentives for publications by PG students.

- Renewal of Book Bank Scheme.

- Encourage internship activities for Under Graduate students.

- Strengthen MOU's with Foreign Universities.

- Preparing for 2nd Cycle of Re-Accreditation for NAAC.

- Merger of Teaching Plan in GEMS.

- Shoulder socio-economic responsibility via schemes like ASPIRE.

- Develop common facilities/instrumentation centre at institute level.

- Addition of smart class rooms.

- Imparting regressive training to students making them campus ready.

DR. (MRS.) MEGHANA A. HASAMNIS
Coordinator, IQAC

DR. RAJESH S. PANDE
Chairperson, IQAC
Principal
Shri Ramdeobaba College
of Engineering & Management, Nagpur-13

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

ANNEXURE - I

Academic Calendars (2016-17)

SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
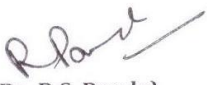Academic Calendar (2016-2017), B.E. Semester I

Rev-0

Date of Release: 30/06/2016

Particular	Date
Session Begins	25 July, 2016
Start of Academic Session	1 August 2016
Display of Time Table	2 August 2016
Admission and Registration to MIS	1 to 5 August 2016
Gyanodaya (First Year Induction Program)	6 August 2016
Classes Start	8 August, 2016
Declaration of mode of Teacher's assessment	10 August, 2016
Display of Time Table for Test I	19 August, 2016
Student Feedback –I	29 August 3 September, 2016
Test I (Two Tests of one hour each with a gap of minimum two hours)	7,8, 10 September, 2016
Display of course wise list of academically weak students; Display of Time Table of extra classes (before/after normal class hours) for such students	17 September, 2016
Conduction of extra/ remedial classes for academically weak students	19 to 29 September, 2016
Completion of Teacher's Assessment – I	29 September, 2016
Display of Time Table for Test II	29 September, 2016
Test II (Two Tests of one hour each with a gap of minimum two hours)	3 to 5 October, 2016
Completion of Teacher's assessment II	8 October, 2016
Parents Teachers meet	8 October, 2016
Display of Time Table for Test III	24 October 2016
Student Feedback – II	24 to 27 October, 2016
Last Teaching Day	27 October, 2016
Internal Practical Examination	May be conducted during normal time table
Diwali Vacation	28 October to 2 November, 2016
Test III (Two Tests of one hour each with a gap of minimum two hours)	3 to 5 November, 2016
Display and finalization of Marks of Test III	Within 4 working days from the date of the last theory examination
Display of Provisional Detention List	4 November, 2016
Display and submission of final detention list to Dean Academics	5 November, 2016
Annakoot	10 November, 2016
Display and finalization of Continuous Assessment Marks (Theory and Practical) and Display of Grades on the basis of Continuous Assessment Marks	10 November, 2016
Submission of Continuous Assessment Marks (Theory and Practical) to office of COE	11November, 2016
Probable dates of End Semester Theory Examination	15 November to 3 December, 2016
Probable dates of End Semester Practical Examination	Between 5 December to 10 December, 2016
Probable dates of display of marks of End Semester Examination	17 December, 2016
Probable dates of finalization and submission of marks to COE	20 December, 2015
Winter Vacation	22 December to 31 December 2016
Probable date of declaration of results of End Semester Examination	30 December, 2016
Start of Next Semester	2 January, 2017
Probable date of Makeup Examination (Theory & Practical)	16 January to 3 February, 2017
Probable date of declaration of results of Makeup Examination	15 February, 2017

Note:1) Display& Finalization of marks for Test I/II and End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.
2) Display of Provisional Grades on the basis of performance in Tests shall be done within 8 working days from the date of the last theory examination
3) The dates may be changed due to circumstances beyond control. All concerned to take note while planning any activity.

(Dr. Abhijeet Agashe)
Dean Academics

(Dr. R.S. Pande)
Principal

SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
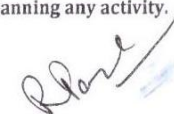Academic Calendar (2016-2017), MBA Semester III, MAM Semester III/V/VII

Rev-0   Date of Release: 28/05/2016

Particular	Date
Session Begins	11 July, 2016
Display of Time Table	14 July, 2016
Classes Start	18 July, 2016
Declaration of mode of Teacher's assessment	21 July, 2016
Student Feedback –I	9 to 13 August, 2016
Display of Time Table for Test I	11 August, 2016
Test I (Two Tests of one hour each with a gap of minimum two hours)	19,20,22 and 23 August, 2016
Display of course wise list of academically weak students; Display of Time Table of extra classes (before/after normal class hours) for such students	27 August, 2016
Conduction of extra/ remedial classes for academically weak students	29 August to 10 September, 2016
Display of Time Table for Test II	14 September, 2016
Test II (Two Tests of one hour each with a gap of minimum two hours)	19 to22 September, 2016
Completion of Teacher's Assessment	3 October, 2016
Parents Teachers meet	8 October, 2016
Stakeholder meet/ Departmental Alumni Meet/ Employers Meet	15 or 22 October, 2016
Display of Time Table for Test III	24 October 2016
Student Feedback – II	24 to 27 October, 2016
Last Teaching Day	27 October, 2016
Diwali Vacation	28 October to 2 November, 2016
Test III (Two Tests of one hour each with a gap of minimum two hours)	3 to 7 November, 2016
Display and finalization of Marks of Test III	Within 4 working days from the date of the last theory examination
Display of Provisional Detention List	4 November, 2016
Display and submission of final detention list to Dean Academics	5 November, 2016
Annakoot	10 November, 2016
Display and finalization of Continuous Assessment Marks and Display of Grades on the basis of Continuous Assessment Marks	10 November, 2016
Submission of Continuous Assessment Marks to office of COE	11 November, 2016
Probable dates of End Semester Theory Examination	15 November to 10 December, 2016
Probable dates of display of marks of End Semester Examination	17 December, 2016
Probable dates of finalization and submission of marks to COE	20 December, 2015
Winter Vacation	22 December to 31 December 2016
Probable date of declaration of results of End Semester Examination	30 December, 2016
Start of Next Semester	2 January, 2017
Probable date of Makeup Examination	16 January to 3 February, 2017
Probable date of declaration of results of Makeup Examination	15 February, 2017

Note:1) Display& Finalization of marks for Test I/II and End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.

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Dr. Abhijeet Agashe)
Dean Academics

(Dr. R.S. Pande)
Principal

SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
Academic Calendar (2016-2017), MCA Semester – I
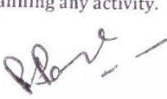
Rev-0

Date of Release: 19/07/2016

Particular	Date
Session Begins	25 July, 2016
Start of Academic Session	1 August 2016
Display of Time Table	2 August, 2016
Admission and Registration to MIS	1 to 5 August 2016
Gyanodaya (First Year Induction Program)	6 August 2016
Classes Start	8 August, 2016
Declaration of mode of Teacher's assessment	10 August, 2016
Display of Time Table for Test I	19 August, 2016
Student Feedback –I	2 to 3 September, 2016
Test I (Two Tests of one hour each with a gap of minimum two hours)	7,8 and 10 September 2016
Display of course wise list of academically weak students; Display of Time Table of extra classes (before/after normal class hours) for such students	17 September, 2016
Conduction of extra/ remedial classes for academically weak students	19 to 29 September, 2016
Completion of Teacher's Assessment – I	29 September, 2016
Display of Time Table for Test II	29 September, 2016
Test II (Two Tests of one hour each with a gap of minimum two hours)	3 to 5 October, 2016
Completion of Teacher's assessment II	8 October, 2016
Parents Teachers meet	8 October, 2016
Display of Time Table for Test III	24 October 2016
Student Feedback – II	24 to 27 October, 2016
Last Teaching Day	27 October, 2016
Internal Practical Examination	May be conducted during normal time table
Diwali Vacation	28 October to 2 November, 2016
Test III (Two Tests of one hour each with a gap of minimum two hours)	3 to 5 November, 2016
Display and finalization of Marks of Test III	Within 4 working days from the date of the last theory examination
Display of Provisional Detention List	4 November, 2016
Display and submission of final detention list to Dean Academics	5 November, 2016
Annakoot	10 November, 2016
Display and finalization of Continuous Assessment Marks (Theory and Practical) and Display of Grades on the basis of Continuous Assessment Marks	10 November, 2016
Submission of Continuous Assessment Marks (Theory and Practical) to office of COE	11 November, 2016
Probable dates of End Semester Theory Examination	15 November to 3 December, 2016
Probable dates of End Semester Practical Examination	Between 5 December to 10 December, 2016
Probable dates of display of marks of End Semester Examination	17 December, 2016
Probable dates of finalization and submission of marks to COE	20 December, 2015
Winter Vacation	22 December to 31 December 2016
Probable date of declaration of results of End Semester Examination	30 December, 2016
Start of Next Semester	2 January, 2017
Probable date of Makeup Examination (Theory & Practical)	16 January to 3 February, 2017
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Note:1) Display& Finalization of marks for Test I/II and End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.

2) Display of Provisional Grades on the basis of performance in Tests shall be done within 8 working days from the date of the last theory examination

3) The dates may be changed due to circumstances beyond control. All concerned to take note while planning any activity.

(Dr. Abhijeet Agashe)
Dean Academics

(Dr. R.S. Pande)
Principal

SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
Academic Calendar (2016-2017), MBA (Integrated) Semester - I
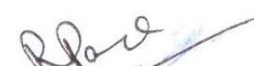
Rev-0

Date of Release: 30/06/2016

Particular	Date
Session Begins	25 July, 2016
Display of Time Table	25 July, 2016
Classes Start	1 August, 2016
Declaration of mode of Teacher's assessment	3 August, 2016
Display of Time Table for Test I	19 August, 2016
Student Feedback –I	24 to 27 August, 2016
Test I (Two Tests of one hour each with a gap of minimum two hours)	29 August to 2 September, 2016
Display of course wise list of academically weak students; Display of Time Table of extra classes (before/after normal class hours) for such students	8 September, 2016
Conduction of extra/ remedial classes for academically weak students	13 to 24 September, 2016
Display of Time Table for Test II	17 September, 2016
Test II (Two Tests of one hour each with a gap of minimum two hours)	26 to 29 September, 2016
Completion of Teacher's Assessment	6 October, 2016
Parents Teachers meet	8 October, 2016
Display of Time Table for Test III	24 October 2016
Student Feedback – II	24 to 27 October, 2016
Last Teaching Day	27 October, 2016
Diwali Vacation	28 October to 2 November, 2016
Test III (Two Tests of one hour each with a gap of minimum two hours)	3 to 7 November, 2016
Display and finalization of Marks of Test III	Within 4 working days from the date of the last theory examination
Display of Provisional Detention List	4 November, 2016
Display and submission of final detention list to Dean Academics	5 November, 2016
Annakoot	10 November, 2016
Display and finalization of Continuous Assessment Marks and Display of Grades on the basis of Continuous Assessment Marks	10 November, 2016
Submission of Continuous Assessment Marks to office of COE	11 November, 2016
Probable dates of End Semester Theory Examination	15 November to 10 December, 2016
Probable dates of display of marks of End Semester Examination	17 December, 2016
Probable dates of finalization and submission of marks to COE	20 December, 2015
Winter Vacation	22 December to 31 December 2016
Probable date of declaration of results of End Semester Examination	30 December, 2016
Start of Next Semester	2 January, 2017
Probable date of Makeup Examination	16 January to 3 February, 2017
Probable date of declaration of results of Makeup Examination	15 February, 2017

Note:1) Display& Finalization of marks for Test I/II and End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.

2) Display of Provisional Grades on the basis of performance in Tests shall be done within 8 working days from the date of the last theory examination

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SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
Academic Calendar (2016-2017), MBA Semester - I
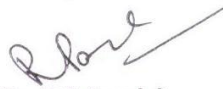
Rev-0

Date of Release: 30/06/2016

Particular	Date
Session Begins	25 July, 2016
Start of Academic Session	1 August 2016
Display of Time Table	2 August 2016
Admission and Registration to MIS	1 to 5 August 2016
Gyanodaya (First Year Induction Program)	6 August 2016
Classes Start	8 August, 2016
Declaration of mode of Teacher's assessment	10 August, 2016
Display of Time Table for Test I	19 August, 2016
Student Feedback –I	24 to 27 August, 2016
Test I (Two Tests of one hour each with a gap of minimum two hours)	7,8, 10 September, 2016
Display of course wise list of academically weak students; Display of Time Table of extra classes (before/after normal class hours) for such students	17 September, 2016
Conduction of extra/ remedial classes for academically weak students	19 to 29 September, 2016
Display of Time Table for Test II	29 September, 2016
Test II (Two Tests of one hour each with a gap of minimum two hours)	3 to 5 October, 2016
Completion of Teacher's Assessment	6 October, 2016
Parents Teachers meet	8 October, 2016
Display of Time Table for Test III	24 October 2016
Student Feedback – II	24 to 27 October, 2016
Last Teaching Day	27 October, 2016
Diwali Vacation	28 October to 2 November, 2016
Test III (Two Tests of one hour each with a gap of minimum two hours)	3 to 7 November, 2016
Display and finalization of Marks of Test III	Within 4 working days from the date of the last theory examination
Display of Provisional Detention List	4 November, 2016
Display and submission of final detention list to Dean Academics	5 November, 2016
Annakoot	10 November, 2016
Display and finalization of Continuous Assessment Marks and Display of Grades on the basis of Continuous Assessment Marks	10 November, 2016
Submission of Continuous Assessment Marks to office of COE	11 November, 2016
Probable dates of End Semester Theory Examination	15 November to 10 December, 2016
Probable dates of display of marks of End Semester Examination	17 December, 2016
Probable dates of finalization and submission of marks to COE	20 December, 2015
Winter Vacation	22 December to 31 December 2016
Probable date of declaration of results of End Semester Examination	30 December, 2016
Start of Next Semester	2 January, 2017
Probable date of Makeup Examination	16 January to 3 February, 2017
Probable date of declaration of results of Makeup Examination	15 February, 2017

Note:1) Display& Finalization of marks for Test I/II and End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.

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(Dr. R.S. Pande)
Principal

SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
Academic Calendar (2016-2017), M. Tech. Semester – I
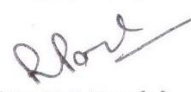
Rev-0

Date of Release: 19/07/2016

Particular	Date
Session Begins	25 July, 2016
Start of Academic Session	1 August 2016
Display of Time Table	2 August, 2016
Admission and Registration to MIS	1 to 5 August 2016
Gyanodaya (First Year Induction Program)	6 August 2016
Classes Start	10 August, 2016
Declaration of mode of Teacher's assessment	12 August, 2016
Display of Time Table for Test I	19 August, 2016
Student Feedback –I	2 to 3 September, 2016
Test I (Two Tests of one hour each with a gap of minimum two hours)	7,8 and 10 September 2016
Display of course wise list of academically weak students; Display of Time Table of extra classes (before/after normal class hours) for such students	17 September, 2016
Conduction of extra/ remedial classes for academically weak students	19 to 29 September, 2016
Completion of Teacher's Assessment – I	29 September, 2016
Display of Time Table for Test II	29 September, 2016
Test II (Two Tests of one hour each with a gap of minimum two hours)	3 to 5 October, 2016
Completion of Teacher's assessment II	8 October, 2016
Parents Teachers meet	8 October, 2016
Display of Time Table for Test III	24 October 2016
Student Feedback – II	24 to 27 October, 2016
Last Teaching Day	27 October, 2016
Internal Practical Examination	May be conducted during normal time table
Diwali Vacation	28 October to 2 November, 2016
Test III (Two Tests of one hour each with a gap of minimum two hours)	3 to 5 November, 2016
Display and finalization of Marks of Test III	Within 4 working days from the date of the last theory examination
Display of Provisional Detention List	4 November, 2016
Display and submission of final detention list to Dean Academics	5 November, 2016
Annakoot	10 November, 2016
Display and finalization of Continuous Assessment Marks (Theory and Practical) and Display of Grades on the basis of Continuous Assessment Marks	10 November, 2016
Submission of Continuous Assessment Marks (Theory and Practical) to office of COE	11November, 2016
Probable dates of End Semester Theory Examination	15 November to 3 December, 2016
Probable dates of End Semester Practical Examination	Between 5 December to 10 December, 2016
Probable dates of display of marks of End Semester Examination	17 December, 2016
Probable dates of finalization and submission of marks to COE	20 December, 2015
Winter Vacation	22 December to 31 December 2016
Probable date of declaration of results of End Semester Examination	30 December, 2016
Start of Next Semester	2 January, 2017
Probable date of Makeup Examination (Theory & Practical)	16 January to 3 February, 2017
Probable date of declaration of results of Makeup Examination	15 February, 2017

Note:1) Display& Finalization of marks for Test I/II and End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.

 2) Display of Provisional Grades on the basis of performance in Tests shall be done within 8 working days from the date of the last theory examination

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(Dr. Abhijeet Agashe)
Dean Academics

(Dr. R.S. Pande)
Principal

SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
Academic Calendar (2016-2017), B.E. Semester III/V/VII,
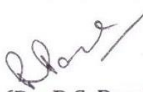M.Tech. Semester III & Semester V (Geotechnical Engineering)/MCA III/V

Rev-0   Date of Release: 28/05/2016

Particular	Date
Session Begins	11 July, 2016
Display of Time Table	14 July, 2016
Classes Start	18 July, 2016
Declaration of mode of Teacher's assessment	21 July, 2016
Student Feedback -I	9 to 13 August, 2016
Display of Time Table for Test I	11 August, 2016
Test I (Two Tests of one hour each with a gap of minimum two hours)	19,20 and 22 August, 2016
Display of course wise list of academically weak students; Display of Time Table of extra classes (before/after normal class hours) for such students	27 August, 2016
Conduction of extra/ remedial classes for academically weak students	29 August to 10 September, 2016
Completion of Teacher's Assessment – I	10 September, 2016
Display of Time Table for Test II	14 September, 2016
Test II (Two Tests of one hour each with a gap of minimum two hours)	19 to21 September, 2016
Completion of Teacher's assessment II	3 October, 2016
Parents Teachers meet	8 October, 2016
Stakeholder meet/ Departmental Alumni Meet/ Employers Meet	15 or 22 October, 2016
Display of Time Table for Test III	24 October 2016
Student Feedback – II	24 to 27 October, 2016
Last Teaching Day	27 October, 2016
Internal Practical Examination	May be conducted during normal time table
Diwali Vacation	28 October to 2 November, 2016
Test III (Two Tests of one hour each with a gap of minimum two hours)	3 to 5 November, 2016
Display and finalization of Marks of Test III	Within 4 working days from the date of the last theory examination
Display of Provisional Detention List	4 November, 2016
Display and submission of final detention list to Dean Academics	5 November, 2016
Annakoot	10 November, 2016
Display and finalization of Continuous Assessment Marks (Theory and Practical) and Display of Grades on the basis of Continuous Assessment Marks	10 November, 2016
Submission of Continuous Assessment Marks (Theory and Practical) to office of COE	11 November, 2016
Probable dates of End Semester Theory Examination	15 November to 3 December, 2016
Probable dates of End Semester Practical Examination	Between 5 December to 10 December, 2016
Probable dates of display of marks of End Semester Examination	17 December, 2016
Probable dates of finalization and submission of marks to COE	20 December, 2015
Winter Vacation	22 December to 31 December 2016
Probable date of declaration of results of End Semester Examination	30 December, 2016
Start of Next Semester	2 January, 2017
Probable date of Makeup Examination (Theory & Practical)	16 January to 3 February, 2017
Probable date of declaration of results of Makeup Examination	15 February, 2017

:1) Display& Finalization of marks for Test I/II and End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.

2) Display of Provisional Grades on the basis of performance in Tests shall be done within 8 working days from the date of the last theory examination

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(Dr. Abhijeet Agashe)   (Dr. R.S. Pande)
Dean Academics   Principal

SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
Academic Calendar (2016-2017), B.E. Semester II/ IV / VI / VIII,
M. Tech II/ IV, MCA II/IV

Date of Release: 26/10/2016

Title	Particulars
Display of Time Table	19 December, 2016
Session Begins / Classes Start	2 January, 2017
Declaration of mode of Teacher's assessment	7 January, 2017
Display of Time Table for Test I	30 January, 2017
Student Feedback – I	30 January to 4 February, 2017
Completion of Teacher's Assessment I	On or before 1 February, 2017
Test I (Two tests per day with a gap of minimum 2 hours; normal classes would be suspended during this period)	6,7,8 February, 2017
Display of course wise list of academically weak students and Display of Time Table of extra classes (before/after normal class hours) for such students	17 February, 2017
Conduction of extra / remedial classes for academically weak students	20 February to 4 March, 2017
Display of Time Table for Test II	6 March, 2017
Technovision	6-8 March, 2017
Pratishruti	9-11 March, 2017
Test II (Two tests per day with a gap of minimum 2 hours; normal classes would be suspended during this period)	16,17,18 March 2017
Parent – Teacher meet	1 April, 2017
Completion of Teacher's assessment II	8 April, 2017
Stakeholder meet / Departmental Alumni Meet / Employers Meet	1 or 8 April, 2017
Display of Time Table for Test III	8 April, 2017
Student Feedback – II	10 to 15 April, 2017
Last Teaching Day	15 April, 2016
Internal Practical Examination	May be conducted during normal Practical slots
Test III (Two tests per day with a gap of minimum 2 hours)	17, 18 & 19 April, 2017
Display and finalization of Marks of Test III	Within 4 days from the date of the last theory examination
Display of provisional detention list	18 April, 2017
Display and submission of Final Detention list to Dean Academics	20 April, 2016
Display and finalization of Continuous Assessment Marks (Theory and Practical) and Display of Grades on the basis of Continuous Assessment Marks	21 April, 2017
Submission of Continuous Assessment Marks (Theory and Practical) to office of COE	22 April, 2017
Probable dates of End Semester Theory Examination	Between 24 April to 13 May, 2017
Probable dates of End Semester Practical Examination	15 May to 20 May, 2017
Display of marks of End Semester Examination (Theory and Practical)	23 May, 2017
Finalization and submission of marks to COE	25 May, 2017
Summer Vacation	26 May to 9 July, 2017
Probable date of declaration of results of End Semester Examination	3 June, 2017
Remedial classes	5 June to 17 June, 2017
Probable date of start of Makeup Examination (Theory & Practical)	19 June, 2017
Probable date of declaration of results of Makeup Examination	8 July, 2017
Start of Next Semester	10 July, 2017
Classes begin	10 July, 2017

Note:
1) Display & Finalization of marks for Test I/II/End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.
2) Display of Provisional Grades on the basis of performance in Tests shall be done within 8 working days from the date of the last theory examination
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Dean Academics

(Dr. R. S. Pande)
Principal

SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
Academic Calendar (2016-2017), MBA(Integrated) Semester II/IV/VI/VIII

Date of Release: 04/11/2016

Title	Particulars
Display of Time Table	19 December, 2016
Session Begins / Classes Start	2 January, 2017
Declaration of mode of Teacher's assessment	7 January, 2017
Display of Time Table for Test I	30 January, 2017
Student Feedback – I	30 January to 4 February, 2017
Test I (Two tests per day with a gap of minimum 2 hours; normal classes would be suspended during this period)	6 to 8 February, 2017
Display of course wise list of academically weak students and Display of Time Table of extra classes (before/after normal class hours) for such students	17 February, 2017
Conduction of extra / remedial classes for academically weak students	20 February to 4 March , 2017
Display of Time Table for Test II	6 March, 2017
Technovision	6-8 March,2017
Pratishruti	9-11 March,2017
Test II (Two tests per day with a gap of minimum 2 hours; normal classes would be suspended during this period)	16 to 18 March 2017
Parent – Teacher meet	1 April, 2017
Project Viva**	4 to 10 April 2017
Completion of Teacher's Assessment I & II	8 April, 2017
Stakeholder meet / Departmental Alumni Meet / Employers Meet	1 or 8 April, 2017
Display of Time Table for Test III	8 April, 2017
Student Feedback – II	10 to 15 April, 2017
Last Teaching Day	15 April, 2016
Test III (Two tests per day with a gap of minimum 2 hours)	17 to 19 April, 2017
Display and finalization of Marks of Test III	Within 4 days from the date of the last theory examination
Display of provisional detention list	18 April, 2017
Display and submission of Final Detention list to Dean Academics	20 April, 2016
Display and finalization of Continuous Assessment Marks and Display of Grades on the basis of Continuous Assessment Marks	21 April, 2017
Submission of Continuous Assessment Marks to office of COE	22 April, 2017
Probable dates of End Semester Theory Examination	Between 24 April to 20 May, 2017
Display of marks of End Semester Examination	23 May, 2017
Finalization and submission of marks to COE	25 May, 2017
Summer Vacation	26 May to 9 July, 2017
Probable date of declaration of results of End Semester Examination	3 June, 2017
Remedial classes	5 June to 17 June, 2017
Probable date of start of Makeup Examination	19 June, 2017
Probable date of declaration of results of Makeup Examination	8 July, 2017
Start of Next Semester	10 July, 2017
Classes begin	10 July, 2017

** Only for Semester MBA (Integrated) Semester VI

Note:
1) Display & Finalization of marks for Test I/II/End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.
2) Display of Provisional Grades on the basis of performance in Tests shall be done within 8 working days from the date of the last theory examination
3) The dates may be changed due to circumstances beyond control. All concerned to take note while planning any activity.

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Dean Academics

(Dr. R. S. Pande)
Principal

SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
Academic Calendar (2016-2017), MBA Semester II.

Date of Release: 04/11/2016

Title	Particulars
Display of Time Table	19 December, 2016
Session Begins / Classes Start	2 January, 2017
Declaration of mode of Teacher's assessment	7 January, 2017
Display of Time Table for Test I	30 January, 2017
Student Feedback – I	30 January to 4 February, 2017
Test I (Two tests per day with a gap of minimum 2 hours; normal classes would be suspended during this period)	6 to 9 February, 2017
Display of course wise list of academically weak students and Display of Time Table of extra classes (before/after normal class hours) for such students	17 February, 2017
Conduction of extra / remedial classes for academically weak students	20 February to 4 March , 2017
Display of Time Table for Test II	6 March, 2017
Technovision	6-8 March,2017
Pratishruti	9-11 March,2017
Test II (Two tests per day with a gap of minimum 2 hours; normal classes would be suspended during this period)	14 to 18 March 2017
Parent – Teacher meet	1 April, 2017
Completion of Teacher's Assessment I & II	8 April, 2017
Stakeholder meet / Departmental Alumni Meet / Employers Meet	1 or 8 April, 2017
Display of Time Table for Test III	8 April, 2017
Student Feedback – II	10 to 15 April, 2017
Last Teaching Day	15 April, 2016
Internal Practical Examination	May be conducted during normal Practical slots
Test III (Two tests per day with a gap of minimum 2 hours)	17 to 20 April, 2017
Display and finalization of Marks of Test III	Within 4 days from the date of the last theory examination
Display of provisional detention list	18 April, 2017
Display and submission of Final Detention list to Dean Academics	20 April, 2016
Display and finalization of Continuous Assessment Marks (Theory and Practical) and Display of Grades on the basis of Continuous Assessment Marks	21 April, 2017
Submission of Continuous Assessment Marks (Theory and Practical) to office of COE	22 April, 2017
Probable dates of End Semester Theory Examination	Between 24 April to 16 May, 2017
Probable dates of End Semester Practical Examination	17 May to 20 May, 2017
Display of marks of End Semester Examination (Theory and Practical)	23 May, 2017
Finalization and submission of marks to COE	25 May, 2017
Summer Vacation	26 May to 9 July, 2017
Probable date of declaration of results of End Semester Examination	3 June, 2017
Remedial classes	5 June to 17 June, 2017
Probable date of start of Makeup Examination (Theory & Practical)	19 June, 2017
Probable date of declaration of results of Makeup Examination	8 July, 2017
Start of Next Semester	10 July, 2017
Classes begin	10 July, 2017

Note:
1) Display & Finalization of marks for Test I/II/End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.
2) Display of Provisional Grades on the basis of performance in Tests shall be done within 8 working days from the date of the last theory examination
3) The dates may be changed due to circumstances beyond control. All concerned to take note while planning any activity.

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(Dr. R. S. Pande)
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SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
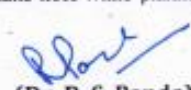**Academic Calendar (2016-2017), MBA Semester IV**

Date of Release: 04/11/2016

Title	Particulars
Display of Time Table	19 December, 2016
Session Begins / Classes Start	2 January, 2017
Declaration of mode of Teacher's assessment	7 January, 2017
Display of Time Table for Test I	30 January, 2017
Student Feedback – I	30 January to 4 February, 2017
Test I (Two tests per day with a gap of minimum 2 hours; normal classes would be suspended during this period)	6 to 9 February, 2017
Display of course wise list of academically weak students and Display of Time Table of extra classes (before/after normal class hours) for such students	17 February, 2017
Conduction of extra / remedial classes for academically weak students	20 February to 4 March , 2017
Display of Time Table for Test II	6 March, 2017
Technovision	6-8 March, 2017
Pratishruti	9-11 March, 2017
Test II (Two tests per day with a gap of minimum 2 hours; normal classes would be suspended during this period)	14 to 18 March 2017
Parent – Teacher meet	1 April, 2017
Project Viva	4 to 10 April 2017
Completion of Teacher's Assessment I & II	8 April, 2017
Stakeholder meet /-Departmental Alumni Meet / Employers Meet	1 or 8 April, 2017
Display of Time Table for Test III	8 April, 2017
Student Feedback – II	10 to 15 April, 2017
Last Teaching Day	15 April, 2016
Test III (Two tests per day with a gap of minimum 2 hours)	17 to 20 April, 2017
Display and finalization of Marks of Test III	Within 4 days from the date of the last theory examination
Display of provisional detention list	18 April, 2017
Display and submission of Final Detention list to Dean Academics	20 April, 2016
Display and finalization of Continuous Assessment Marks and Display of Grades on the basis of Continuous Assessment Marks	21 April, 2017
Submission of Continuous Assessment Marks to office of COE	22 April, 2017
Probable dates of End Semester Theory Examination	Between 24 April to 20 May, 2017
Display of marks of End Semester Examination	23 May, 2017
Finalization and submission of marks to COE	25 May, 2017
Summer Vacation	26 May to 9 July, 2017
Probable date of declaration of results of End Semester Examination	3 June, 2017
Remedial classes	5 June to 17 June, 2017
Probable date of start of Makeup Examination	19 June, 2017
Probable date of declaration of results of Makeup Examination	8 July, 2017
Start of Next Semester	10 July, 2017
Classes begin	10 July, 2017

Note:
1) Display & Finalization of marks for Test I/II/End Term Examination shall be done within six and eight working days from the date of the last theory examination respectively.
2) Display of Provisional Grades on the basis of performance in Tests shall be done within 8 working days from the date of the last theory examination
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Dean Academics

(Dr. R. S. Pande)
Principal

ANNEXURE - II

Feedback Analysis (2016-17)

Details of Feedback conducted in the institute:

Stakeholder	Frequency	Mode
Students	Twice in a semester	Online
Parents	Once in a semester	Manual (Formal/Informal during meetings)
Employers	Once in a semester	Manual (Formal/Informal during meetings)
Alumni	Once in a semester	Manual (Formal/Informal during meetings)

The On-line Feedback from students is taken on three aspects, i.e. (1) Faculty-wise teaching/learning experience in theory and laboratory courses, (2) Departmental facilities/support and (3) Institutional facilities/support.

The different parameters under each aspect are given below.

Parameters for Students' feedback

Institute Level	Department Level	Faculty Level (Theory)	Faculty Level (Practical)
Central Library: Adequacy of titles and volumes	Adequacy of laboratory facilities (Space/ventilation/number of set ups etc)	Teaching Skill	Selection of experiments/ programming assignment/ case study were commensurate with the theory
Central Library: Ease in issuing of books	Availability and ease of computing & internet facility	Extent to which course outcomes were discussed in the beginning of the session	Experiments/ programming assignment/ case study were leading towards proper conclusion/ interpretation
Central Library: Suitability of library timing	Mechanism and approach to provide exposure to external world through field visits, guest lecturers etc.	Punctuality and regularity in conducting classes	Teacher helped in understanding the experimental observations/ logic of the program/ case study/ field study
Adequacy of facilities promoting Sports, NSS etc	Infrastructure (Furniture/blackboard/ illumination/fans/ flooring etc.)	Subject knowledge, lecture preparation and organization	Experimental setup was well maintained and operational/ software provided for executing the program was proper
Approach towards promoting co-curricular and	Overall approach and commitment of the department towards providing quality	Blackboard management and communication skills	Precise, updated and self-explanatory manuals were provided

extra co-curricular activities	technical and professional education		
Adequacy and time-suitability of photocopying facility	Hygiene (class/sanitation/ surrounding)	Ability to explain practical relevance and recent developments in the subject area	Teacher did assessment of experiments and journal regularly
College Canteen facility: timings and food quality	Mechanism and approach to deal with students/parents grievances	Encouragement and motivation to interactive teaching	Overall impression regarding the usefulness of the entire lab session in clarifying the student's theoretical knowledge
Centralized Computer laboratory and internet facility: qualitative and quantitative adequacy	Students guidance and mentoring facilities	Adequate coverage of syllabus	
Availability of distance learning resources, video lectures, web courses etc.	Availability of modern instruments and arrangements/facilities to provide hands on experience	Promptness and impartiality in assessment	
Student counseling and training for improving placements		Class Control	
Administrative office: Ease of Approachability		Approachability for discussion and interaction outside the class	
		Your inclination for taking another course from this teacher	

Feedback from Parents is conducted during parent-teacher meeting and meetings with the respective stakeholders on dates as prescribed in the academic calendar. These feedbacks are analyzed at departmental level and corrective actions are initiated.

Sample analyses of Students' Feedbacks are as given below.

Shri Ramdeobaba College of Engineering and Management, Nagpur

Feedback Report

Department Feedback Report
New_EVEN SEMESTER FEEDBACK-2(BE 2ND/3RD/4TH YEAR, All PG) 2017 by RCOEM – Engineering(   )

Total No of Respondent : 273

Competency	Very Good (%)	Good (%)	Poor (%)	Very Poor (%)
Adequacy of laboratory facilities (Space/ventilation/number of set ups etc)	55.68	43.96	0.37	0.00
Availability and ease of computing & internet facility	50.18	49.45	0.00	0.37
Mechanism and approach to provide exposure to external world through field visits, guest lectures etc.	53.11	46.52	0.00	0.37
Infrastructure (Furniture/blackboard/ illumination/fans/ flooring etc.)	46.52	53.11	0.00	0.37
Overall approach and commitment of the department towards providing quality technical and professional education	50.55	49.08	0.37	0.00
Hygiene (class/sanitation/ surrounding)	49.45	50.18	0.00	0.37
Mechanism and approach to deal with students/parents grievances	54.58	45.05	0.37	0.00
Students guidance and mentoring facilities	50.18	49.45	0.37	0.00
Availability of modern instruments and arrangements/facilities to provide hands on experience	46.15	53.48	0.00	0.37

Shri Ramdeobaba College of Engineering and Management, Nagpur

Feedback Report

Institute Feedback Report
EVEN SEMESTER FEEDBACK-1(BE First Year)

Total No of Respondent : 730

Competency	Excellent (%)	Very Good (%)	Good (%)	Poor (%)	Very Poor (%)
Central Library: Adequacy of titles and volumes	17.95	30.96	38.49	9.59	3.01
Central Library: Ease in issuing of books	21.23	33.15	35.48	7.26	2.88
Central Library: Suitability of library timing	21.23	33.56	35.07	6.71	3.42
Adequacy of facilities promoting Sports, NSS etc	18.63	29.45	38.77	9.59	3.56
Approach towards promoting co-curricular and extra co-curricular activities	17.81	32.19	36.58	9.86	3.56
Adequacy and time-suitability of photocopying facility	18.22	30.27	41.51	7.40	2.60
Language and Communication Lab	24.79	33.84	35.21	4.25	1.92
Administrative office: Ease of Approachability	19.86	33.42	39.18	5.89	1.64
Accounts office: Ease of Approachability	18.49	34.52	38.90	6.16	1.92

ANNEXURE – III

Revision in PG Ordinance/ Regulation:

Changes in PG Ordinances/Regulations in view of implementation of Choice Based Credit System were approved by the Academic Council.

Revision/ Update in Syllabi:

Name of Program: B.E. (IT)			
S. No	**Semester**	**Course code and Name in which revision was made**	**Salient features of Revision of syllabus**
1	VIII	ITT407-Computer System Security	Minor modification in unit1 and 2
2	VIII	Addition of ITT409-4 and ITT410-4 Industry Electives	Additional electives added to incorporate six months industry internship for VIII semester IT students under the existing scheme

Name of Program: B.E. Civil Engg.			
S. No	**Semester**	**Course code and Name in which revision was made**	**Salient features of Revision of syllabus**
1	VII	Elective-I CET-404-7 Urban Transport Planning CET 404 - 5 Environmental Management Elective-II CET 409 - 5 Advanced Transportation Engineering Elective –III CET 410 - 7 Open Channel Hydraulics, CET 410 - 8 Industrial Wastewater Treatment CET 410 – 5 Rock Mechanics CET 410 - 6 Building Services Elective-IV CET 411 - 5 , CEP-411-5 Ground Improvement	Extension of Elective List: 08 numbers of elective topics were added to the existing 16 numbers.

Name of Program: B.E. Electronics & Communication Engg.			
S. No	Semester	Course code and Name in which revision was made	Salient features of Revision of syllabus
1	VIII	ECT410-2 RF Circuit Design (Departmental Elective – IV)	RF based mixers and amplifiers are included in the syllabus for better design process.

Name of Program: B.E. Electronics Design Technology			
S. No	Semester	Course code and Name in which revision was made	Salient features of Revision of syllabus
1	VII	Design of Electronic Equipment	Introduce the topics related to introduction of Patents and intellectual property rights, preparation of patent disclosure. Also included topic on design for manufacturing

Name of Program: B.E. Industrial Engineering & M. Tech Industrial Engg.			
S. No	Semester	Course code and Name in which revision was made	Salient features of Revision of syllabus
1	II (M.Tech)	INT557- Human Factors Engineering	Advanced contents of ergonomics added
2	II (M.Tech)	INT561 Advanced Computation Technique	Advanced numerical computation techniques added
3	VII Sem (B.E)	INT 401 Quality Engineering	Modification in contents of attribute control charts, and acceptance sampling

Name of Program: B.E. Electronics Engineering			
S. No	Semester	Course code and Name in which revision was made	Salient features of Revision of syllabus
1	VII	Medical Electronics (ENT404-3)	To understand the concept of Action potential the course contents related to Physiology of the human body were included in the Course Medical Electronics (ENT 404-3).

| 2 | VI | Arduino playground(ENT311-03) | The course contents of the course Arduino Playground (ENT 311-3) have been changed to include the contents regarding C-language and Displays. |
| 3 | VI | Computer Organization (ENT308) | The course contents of the course Computer Organization (ENT 308) have been changed keeping in view the MIPS architecture. |

Name of Program: M. Tech. (VLSI Design)			
Sr. No.	**Semester**	**Course code and Name in which revision was made**	**Salient features of Revision of syllabus**
1	I	ENT553 : Embedded System and RTOS	More Exposure to modern day complex embedded system
2	I	ENT554: Semiconductor Devices	More stress on device modeling and study of advanced MOSFET Technology.
3	I	ENT555-3: Advanced Digital Signal Processing	Detailed concepts of Multirate Signal Processing, DSP processor, algorithmic strength reduction technique for DSP applications.
4	II	ENT557: System Verilog for Verification	Industry prospective Coverage of verifying digital systems through system Verilog.
5	II	ENT560: VLSI Design Automation	Concept of partitioning, floorplaning, placement and routing of digital designs are introduced
6	II	ENT599: Wireless Sensor Network	Introduction to state of art wireless and mobile ad hoc networks

Name of Program: M.Tech.(HPE)			
S. No	**Semester**	**Course code and Name in which revision was made**	**Salient features of Revision of syllabus**
1	II Sem M. Tech. (HPE)		New CBCS scheme and syllabus is implemented.

Name of Program: Computer Science and Engineering

Sr. No.	Semester	Course code and Name in which revision was made	Salient features of Revision of syllabus
1.	2nd Yr / III Sem	CSP216 : Advanced Programming Lab	Practical based on advanced concepts in C/C++ are conducted which help in programming skill development
2.	3rd Yr / V Sem	CST313 : Mobile Application Programming	Students learn Android programming.
3.	3rd Yr / V Sem	CSP313 : Mobile Application Programming Lab	Practical implementation for better understanding of concepts.
4.	3rd Yr / V Sem	CST316 : Design Patterns	The course aims to bring the students abreast with well-known strategies for software design
5.	3rd Yr / VI Sem	CST320 : Advanced Data Structures	Students studied advanced data structures and their implementation. This also aids in campus placement
6.	3rd Yr / VI Sem	CSP320 : Advanced Data Structures Lab	Better understanding of theoretical concepts.
7.	4th Yr / VIII Sem	CST418-3 : Parallel Programming Design	Students learn latest multiple architecture for utilizing huge computing power
8.	4th Yr / VIII Sem	CST419-3 : Mobile Adhoc Network	Students are taught the basic functionalities of adhoc network.
9.	4th Yr / VIII Sem	CST408-4 : Industry Elective - I	Initiates students for Industry Internship
10.	4th Yr / VIII Sem	CST409-4 : Industry Elective - II	Initiates students for Industry Internship

	Name of Program: M. Tech (CSE)		
S. No	**Semester**	**Course code and Name in which revision was made**	**Salient features of Revision of syllabus**
1	II	CST557: Advanced Digital Image Processing	Basics of image processing were included.
2	II	CST599-1: Advanced Programming Techniques	Regular expressions and object oriented concepts were introduced in the subject
3	II	CST555-1: Graph Mining	Graph Mining methods were introduced in the course.

	Name of Program: B.E. Electrical Engg.		
S. No	**Semester**	**Course code and Name in which revision was made**	**Salient features of Revision of syllabus**
1	VIII	409-5 Industrial Elective I	Addition of elective for those students of VIII sem. opting Internship
2	VIII	410-5 Industrial Elective II	Addition of elective for those students of VIII sem. opting Internship

	Dept. of Humanities (B.E.)		
S. No	**Semester**	**Course code and Name in which revision was made**	**Salient features of Revision of syllabus**
1	III (CSE)	HUT 204 Technical Communication	The course code of the course was changed as the course was introduced in the 3rd semester of CSE which was being taught in the 4th semester in the past years
2	VIII (EC)	ECT410-2 RF Circuit Design (Departmental Elective – IV)	RF based mixers and amplifiers are included in the syllabus for better design process.

Name of Program: MCA			
S. No	Seme ster	Course code and Name in which revision was made		Salient features of Revision of syllabus
1.	III	MCT620	Database Management Systems	Detailed Syllabus of Choice based credit system of III- sem is introduced from 2016-17 session. (BoS meeting-23/09/2016)
		MCP620	Database Management Systems Lab	
		MCT621	Design and Analysis of Algorithms	
		MCT622	Object Oriented Programming-2	
		MCP622	Object Oriented Programming-2 Lab	
		MCT623	Computer Networks	
		MCP623-1	Mobile Application Development Lab	
		MCP623-2	Linux System Administration & Maintenance lab	
		MCP623-3	Ethical Hacking Lab	
		MCP623-4	System Programming Lab	
		MCT624-1	Development Frameworks &Virtual Machines	
		MCT624-2	Advanced Computer Architecture	
		MCT624-3	Image Processing	
		MCT624-4	Introduction to RTOS	
		MCT624-5	Pattern Recognition	
		HUP601-1	Business Correspondence & Report Writing	
		HUP601-2	Constitution of India & Human Rights	

		MCT625	Compiler Construction	
		MCT626	Internet & Web Technologies	
		MCP626	Internet & Web Technologies Lab	
		MCT627	Open Elective-I	
		MCT628-1	Software Documentation	
		MCT628-2	Multimedia & its Applications	
		HUT602-1	Human Resource Management	
2.	IV	HUT602-2	Organizational Behavior	Detailed Syllabus of Choice based credit system of IV- sem is introduced from 2016-17 session. (BoS meeting-23/09/2016)
		MCT629-1	Advanced Databases	
		MCT629-2	Introduction to Internet of Things	
		MCT629-3	Operation Research	
		MCT629-4	Computer Graphics & its Application	
		MCT629-5	High Performance Computing	
		MCP629-1	Programming in Python Lab	
		MCP629-2	Web Development Lab	
3.	V	MCT720-1	Artificial Intelligence	Detailed Syllabus of Choice based credit system of IV- sem is introduced from 2016-17 session. (BoS meeting-18/3/2017)
		MCT720-2	Data Mining	
		MCP720-1	Artificial Intelligence Lab	
		MCP720-2	Data Mining lab	
		MCT721	Introduction to Web Development	
		MCP721-1	Technical Seminar	
		MCP721-2	Mini-Project	
		MCT722-1	Distributed Database Management Systems	
		MCT722-2	Distributed Systems	

		MCT722-3	Big Data & Analytics	
		MCT722-4	Information Retrieval	
		HUT 701-1	Presentation & Interview Skills	
		MCP722-1	API level Programming Lab	
		MCP722-2	R Programming Lab	
		MCP722-3	Big Data & Analytics Lab	
		MCT723	Business Intelligence	
4.	VI	MCP723	Project Work-Full Time	Course Code & Credits were defined (Internal faculty- 200 Marks & Company Mentor- 100 marks)

ANNEXURE – IV

Two Best Practices of the Institute

Best Practice (1)

Title:

Transparent Admission Process

Objective:

Transparent process of admission of students to the programmes of study purely on merit basis. As the admissions are purely on merit basis, will facilitate many deserving students to have an opportunity to avail high quality technical education in this college by paying tuition fees only which is decided by 'Shikshan Shulka Samiti' set up by Director of Technical Education, Govt. of Maharashtra.

Context:

Institute comes under 'Linguistic Minority Status'. Distribution of seats are: 29% Centralized Admission Process (CAP), 20% Institute Level and 51% Linguistic Minority Quota (Maharashtra Domicile Candidates only). The admissions under Linguistic Minority Quota are done through Centralised Admission Process(CAP). College has adopting a very transparent and judicious system of admission with strict adherence to merit leaving no room for charging either any capitation fee or donation. Thus, only academically deserving students can get admission in this institute.

Practice:

The practice is meant to achieve transparency in the admission process by (a) notifying admission in dailies. (b) Design admission form as per requirement and post online for the students to fill the admission form. (c) Scrutiny of applications received and Prepare Merit List. (d) If any discrepancies from the students are present then rectifying the discrepancies and preparation of Final Merit List (e) admissions are done as per the merit list (f) Allow students to cancel admissions if required and declare vacancies against cancellation (g) Display list of admitted students Programme Wise on Notice Board.

Evidence of Success:

Institute has gained immense popularity across the country due to its open and transparent admission process through open counselling. There is total transparency in the system. The students are admitted ethically on merit basis only. Because of the admission of meritorious students results and placements are satisfactory. The community has expressed its satisfaction about the transparency.

Best Practice (2)

Title:

Transparent Evaluation Process

Objective:

Transparency in evaluation process is followed so as to have an open and participative mechanism for evaluation. The examination reforms in the institute are not merely a technique to improve the evaluation system but also aim at improving the education process. The main objectives of evaluation procedures are that the system of evaluation should be adequate and comprehensive so as to measure different types of skills. The system should provide a feedback to the students regarding their strengths and weaknesses and to the teachers as to how far they are able to benefit the students and to modify the approach and teaching methods. Also to evaluate the performance of a student by a method, that will be free from subjectivity and be accurate as far as possible.

Context:

Transparency in evaluation process is provided so as to provide quality education to students, to impart values and to monitor the progress of the students. The teaching, learning and evaluation are integrated components of education. The evaluation system can also serve as an aid in the process of learning. The evaluation process should include continuous internal evaluation, the conduct of examination, the evaluation of answer scripts and indicating the performance by grading.

Practice:

The evaluation system, as adopted by the Institute, has two components i.e. The Continuous Internal Evaluation and The End Semester Examination. The Continuous Internal Evaluation of programme includes components such as Open Book Test, Quizzes, Tests, Assignments, Seminars, Workshops, Mini Projects, Lab Exercises, Practical's etc. The ratio of weightage is 40% in Continuous Internal Evaluation and 60% in End Semester Examination for Under Graduate and Post Graduate Programmes.

The answer scripts are given back to the students after evaluation for their information, providing sufficient transparency and accountability. This enables the student to have access to the evaluated answer scripts and apply for grievance if any. The grievances are solved by the concerned teacher before the marks are forwarded to the examination section. This exercise ensures providing a feedback to the students on the mistakes committed, providing an opportunity to learn the subject more accurately and adequately and transparency in the evaluation system.

Evidence of Success:

The examination reforms are found to have fitted in well, as an aid to maximize learning by the students and also as a measure of the students' mastery over the subject. It has been widely understood by the teachers and found to be rewarding to the students. Corrected answer scripts of tests and end semester examinations are returned to students and discussed in classes and this has improved the rapport between teachers and students. Such a transparency facilitates effective teacher-student interaction. Also it facilitates fast declaration of the results.