P. R. Pote (Patil) College of Engineering & Management, Amravati
The Annual Quality Assurance Report (AQAR) of the IQAC

The AQAR period would be the Academic Year. (For example, July 1, 2017 to June 30, 2018)

Part – A

Data of the Institution
(data may be captured from IIQA)

1. Name of the Institution: P. R. Pote (Patil) Educations & Welfare Trust's Group of Institutions College of Engineering & Management, Amravati (Maharashtra), India

- **Name of the Head of the Institution:** Dr. S. D. Wakde

- **Designation:** Principal

- **Does the institution function from own campus:** Yes

- **Phone no./Alternate phone no.**: 0721-2530342, 2530344, 2530089, 3294384

- **Mobile no.:** 9404109465

- **Registered e-mail:** principal@prpcem.org, prpotepatilcollege@gmail.com

- **Alternate e-mail :**

- **Address** : Pote Estate, Kathora Road, Amravati (Maharashtra)

- **City/Town** : Amravati

- **State/UT** : Maharashtra

- **Pin Code** : 444602

2. Institutional status:
- **Affiliated / Constituent:** Affiliated to SGBAU
- **Type of Institution: Co-education/Men/Women:** Co-education
- **Location : Rural/Semi-urban/Urban:** Rural

- **Financial Status:** Grants-in aid/ UGC 2f and 12 (B)/ Self financing (please specify):
  UGC 2f and 12 (B) Self Financing

- **Name of the Affiliating University:** Sant Gadge Baba Amravati University, Amravati
- **Name of the IQAC Co-ordinator :** Dr. S. B. Warkad

- **Phone no. : -**

- **Alternate phone no.:-**

- **Mobile:** 7693896006

- **IQAC e-mail address:** iqaccoordinatorprpcem@gmail.com

- **Alternate Email address:** sbwarkad@gmail.com

3. Website address:
   Web-link of the AQAR: (Previous Academic Year): Nil (Not Applicable)

4. **Whether Academic Calendar prepared during the year? Yes,** if yes, whether it is uploaded in the Institutional website: **http://www.prpcem.org/AcademicCalender.aspx?pg=calender**

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1st	A	3.04	2017	from: 30/10/2017 to: 29/10/2022
2nd				from: to:
3rd				from: to:
4th				from: to:
5th				from: to:

6. Date of Establishment of IQAC: 09/03/2015

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item/Title of the quality initiative by IQAC	**Date & Duration**	**Name of participants/beneficiaries**
IQAC Meetings	25/09/2017- 02 Hrs 13/11/2017- 01 Hr. 07/05/2018 – 02 Hrs. 30/06/2018 – 02 Hrs.	Dr. D. G. Wakde, Director, Dr. Mrs. S. D. Wakde, Principal, Dr. Mahendra Dhore, Management Representative, Shri Shrikant Borole, Alumni Representative, Shri Sanjay Jadhao, Jadhao Group of Industries, Prof. Mohamd. Zuhair, Vice, Principal Dr. P. S. Ardak, HOD, ME Deptt., Prof. Sanpreet Kaur Nanda, HOD, CSE, Deptt., Prof. D. A. Shahakar, Electrical Engg Deptt., Prof. Rahul D. Ghongade, HOD, EXTC, Deptt.

		Prof. Prashant Thombare, T & P Officer, Prof. P. R. Wadnerkar, Coordinator, First Year, Prof. S. R. Shah, HOD, MBA Deptt., Dr. Chitra. A. Dhawale, HOD, MCA Deptt., Mr. Rajiv Rajas, P.A to the Principal, Mr. Kishore Deshmukh, Administrative officer, Mr.Niraj P. Bherde, Accountant, Dr. Nitesh Chore, Librarian, Mr. Abhijit D. Bhange, Student, EE Deptt.
Internal Academic Audit	26 -28 April, 2018 05 Hrs.	All HODs of the Department and nominated members
Internal Stock Audit	23 -24 April, 2018 04 Hrs.	All HODs & Lab Incharges of the Department
External Academic Audit	19-23 June, 2018 05 Hrs.	Dr. M. K. Khedkar, Professor & HOD, Elect. Engg., Deptt., VNIT, Nagpur Dr. K. B. Porate, Professor & HOD, Elect. Engg., Deptt., PCE, Nagpur Dr. V. R. Kalamkar, Professor & HOD, Mech. Engg., Deptt., VNIT, Nagpur Dr. S. S. Choudhary, Professor & HOD, Mech. Engg., Deptt., YCCE, Nagpur Dr. U. A. Deshpande, Professor & HOD, CSE Deptt., VNIT, Nagpur Dr. M. M. Raghuwanshi, Professor, IT Deptt., YCCE, Nagpur Dr. A. S. Gandhi, Professor, Deptt of EXTC, VNIT, Nagpur Dr. P. V. Ingole, Professor, Deptt of EXTC, PRMITR, Amravati Dr. L. M. Gupta, Professor, Deptt., of Applied Mechanics, VNIT, Nagpur Dr. P. S. Pajgade, Professor, Deptt., of Civil Engg., PRMITR, Amravati All HODs and Faculty members of the Instiution
Feedback from all stakeholders collected, analysed and used for improvements	Student Exit Feedback	Final Year Students-All Branches
Submission of Annual Quality Assurance Report (AQAR) to NAAC	Submitted	-

8. Provide the list of funds by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Mechanical Engg	STTP	ISTE, New Delhi	2018	3 Lakhs

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: Yes

Composition of IQAC

SN	Name	Designation
1	Dr. Mrs. Sadhana D. Wakde, Principal	Chairperson
2	Dr. Mahendra Dhore, Management Representative	Member
3	Dr. D. G. Wakde, Director	Member
4	Shri Shrikant Borole, Alumni Representative	Member
5	Shri Sanjay Jadhao, Jadhao Group of Industries, Industry Representative	Member
6	Prof. Mohammad. Zuhair, Vice, Principal & HOD, Civil Engg., Deptt.	Member
7	Dr. Pankaj Ardak, HOD, Mechanical Engg., Deptt.	Member
8	Prof. Sunpreet Kaur Nanda, HOD, Computer Science Engg., Deptt.	Member
9	Prof. Rahul D. Ghongade, HOD, Electronics & Telecom. Engg., Deptt.	Member
10	Prof. D. A. Shahakar, HOD, Electrical Engineering Deptt.	Member
11	Prof. Prashant Thombare, Training & Placement Officer	Member
12	Prof. P. R. Wadnerkar, Coordinator, First Year	Member
13	Prof. S. R. Shah, HOD, MBA Deptt.	Member
14	Dr. Chitra. A. Dhawale, HOD, MCA Deptt.	Member
15	Dr. Sanjay. B. Warkad, Electrical, Engg, Deptt	Coordinator
16	Mr. Rajiv Rajas, P.A to the Principal	Member
17	Mr. Kishore Deshmukh, Administrative officer	Member
18	Mr.Niraj P. Bherde, Accountant	Member
19	Dr. Nitesh Chore, Librarian	Member
20	Mr. Ajay Samdekar, Lasting Smile Foundations, Amravati (Local society)	Member
21	Mr. Abhijit D. Bhange, Student, EE Deptt.	Member

*upload latest notification of formation of IQAC:
http://www.prpcem.org/naac/iqac/iqac_committee_new.pdf

10. No. of IQAC meetings held during the year: 04

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website: **Yes** (Please upload, minutes of meetings and action taken report)

http://www.prpcem.org/naac/iqac/ iqac_meeting_notices.pdf
http://www.prpcem.org/naac/iqac/iqac_mom.pdf

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?   **No**

12. Significant contributions made by IQAC during the current year (maximum five bullets)

- Established Stakeholder's Feedback Policy
- Updated Entrepreneurship and R&D Policy
- Conducted Academic Audit Internal and External
- Initiated Process of NBA in several Departments
- Conducted several programs on Outcome Based Education*

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Academic processes & activities as per NBA Format	In Process

ICT Based Teaching Aids & Smart Class Rooms	In Process
Research Labs for Ph.D.	Applying in Session 2019-20

14. Whether the AQAR was placed before statutory body?   Yes

   Name of the statutory body: College Development Committee (CDC)

   Date of meeting(s): 03/09/2018

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning? No

 16. Whether institutional data submitted to AISHE: Yes

   Year: 2017-18   **Date of Submission:** 03/03/2018

17. Does the Institution have Management Information System?   Yes

   If yes, give a brief description and a list of modules currently operational. (Maximum 500 words)

- Office management System is implemented related to student admission and supporting activities. Student databases are created branch and semester wise which is effectively used in Academic process also.
- Student Feedback is also collected online and databases are maintained for effective decision making.

PART-B

CRITERION I – CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 Institution has the mechanism for well planned curriculum delivery and documentation.

Proper implementation of the curriculum is accomplished with effective methodology and methods as follows-

- For facilitating proper and advance preparation of subjects' contents by the teachers, the allotment of the subjects to respective teachers is being made well in advance before start of actual session. Subjects are allotted to the teachers as per their area of specialization.
- The academic calendar is displayed well beforehand on the notice board and circulating among the staff.
- Monitoring and continuous observation of teaching in the classes by the HOD as per the teaching plan prepared & submitted by the teaching staff of the respective department.
- Class coordinator is appointed for each class to monitor the regularity of classes with due observation of students attendance as well.
- Every faculty member is assigned a group of about twenty students for counseling every year. The counselor conducts meeting with students of their group and record their suggestions, requirements, and difficulties to take necessary actions related to curriculum implementation.
- Continuous monitoring of students attendance and stern warning is given to the defaulters. Parents are informed regarding student's attendance along with the performance report of unit test and other examinations, and record of the same is maintained.
- Efforts are taken for the development of academic performance of students and the record of the same maintained by the designated class coordinators.
- Management of the institute holds meeting with heads of the department and all teaching staff at regular intervals to see the academic progress of students.

The above-mentioned teaching-learning process helps students to study the curriculum effectively along with additional inputs relevant to industry for technical skill development. Students are made to experience academic rigor by exposure to "drill problems" and opportunity to exhibit innovative ideas associated with the course undertaken.

1.1.1 Certificate/ Diploma Course introduced during the Academic year

Name of the Certificate Course	Date of introduction and duration	Focus on employability/ entrepreneurship	Skill Development
One Week Workshop on ETABS Software	03/07/2018 to 08/07/2018 (1 Week)	Employability & Entrepreneurship	Skill Development about Structural software ETABS
One Week Workshop on Auto CAD Software	03/07/2018 to 08/07/2018 (1 Week)	Employability	Skill Development Auto CAD Software

1.2 Academic Flexibility

1.2.1 New programmes /course introduced during the Academic year

Programme with Code	Course with Code	Date of Introduction
Electronics & Telecommunication	Skill Development Lab-I (Measurements, Testing & Instrumentation) (3ETp9)	June 2017
	Skill Development Lab-II (Software)	December 2017

Engg. (11737210)	(4ETp10)	
	Skill Development Lab-III (Simulation) (5ETp9)	June 2018
Mechanical Engineering	REC (5FECH05)	January 2018

1.2.2 Programme in which Choice Based Credit System (CBCS)/ Elective course system implemented at the affiliated college (if applicable) during the Academic year.

Name of Programmes adopting CBCS	UG	Date of implementation of CBCS/ Elective Course System	UG	PG
Electronics & Telecommunication Engg.	B. E. V-Sem	02/07/2018 (Introduction to Computer Networks-5FEIT05)	√	
	B. E. VI-Sem	01/01/2018 (E-commerce-6FEIT05)		
Civil Engineering	VII Sem (IV Year)	27th June 2017 (Advanced Concrete Technology)	√	
	VIII Sem (IV Year)	18th December 2017 (Dam Engineering)	√	
	V Sem (III Year)	27th June 2017 (Fundamentals of Architectural Design)	√	
	VI Sem (III Year)	18th December 2017 (Non Conventional Energy Sources)	√	

1.2.3 Students enrolled in certificate/ Diploma Course introduced during the year

Certificate Course	No. of Students	Diploma Course
1. IOT and hands-on training on Arduino	25	--
2. PHP Certification	13	--
3. IGS Workshop on 'Advances in Geotechnical Engineering'	82	--
4. One Week Workshop on ETABS Software	32	--
5. One Week Workshop on Auto CAD Software	30	--

1.3 Curriculum Enrichment
1.3.1: Value- added course imparting transferable life skills offered during the year

Value added courses	Date of introduction	Number of students enrolled
Department: Computer Sc. & Engg.		
Training of C, C++, Data Structure, HTML, CSS, PHP, DBMS, JAVA, Soft Skill, Aptitude	19 – 27 July 2017	130
STTP on "IOT & Big Data"	18-23 June 2018	40
Department: Electronics & Telecommunication Engg.		
Recent Trends in ENTC	05th Feb. 2018	80
Skill management, leadership quality of Shivaji Maharaj	21st Feb. 2018	120
IoT and hands-on training on Arduino	28 - 30 Dec 2017	52
Solar energy light and robotics	12th Jan 2018	126

Quadcopter & RC aircraft plane development	23 - 25 Sep 2017	321
Speech and Android phone operated wireless ROBOT	13th July 2018	278
STTP on "Research trends in communication system & network using IoT with hands-on on Raspberry Pi 3 "	18-23 June 2018	21
Department: MCA		
Soft skill & Placement Preparation	18th June 2018	25
Department: Electrical Engineering		
Workshop on "Optimization of tool MATLAB and introduction to Power World Simulator"	24-25 March 2018	58
Workshop on "Introduction to MATLAB Simulink used for Electrical Engineering"	11-12 April 2018	60
Workshop on "Circuit simulation using Proteus ISIS and PCB design by ARES"	5th and 17th Feb.2018	59
STTP on "Research Applications and Computational Intelligence Techniques in Electrical Engineering"	18-23 June 2018	39
Department: Mechanical Engineering		
7 Days Training Program on Automobile and Vehicle Dynamics With Practical Session	24-30th July 2017	85
STTP on "Basics of Technical Research paper Writing in Indexed Journals"	18-23 June 2018	40
Department: Civil Engineering		
IGS Workshop on 'Advances in Geotechnical Engg'	11/01/2018	60
STTP on "Advances in Structural Geotechnical Dynamics"	18-23 June 2018	35

1.3.2 : Field Projects/ Internship under taken during the year

Department	Project Title	No. of Students enrolled for field project
Mechanical Engineering	Design and analysis of horizontal hydraulics press machine.	06
	Design and analysis of power transmission systems for cotton feeding automatic central trolley	06
Electronics & Telecommunication Engg.	Smart bus system (Smart Plug, Panic Button and advanced Breaking System)	06
MCA	Project & Dissertation	29

Internship under taken during the year

Department	Programme Title	No. of Students enrolled for Internship
MBA	Summer Internship Programme (SIP)	20
Civil	Internship at Under Construction Public (School) Building by PWD Nagpur.	01

1.4 Feedback System

1.4.1: Whether structured feedback received from all the stakeholders

1)Students	2)Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution   (maximum 500 words)

Institute has a mechanism of obtaining feedback from students and stakeholders on curriculum. The institute takes regular feedback from industry, alumni, students, and parents.
➤   The feedback from the students regarding the faculty, facilities and other entities are taken once in a semester.

The feedback from the students regarding faculty, facilities and other entities are taken at the end of semester. Detail analysis of this feedback is carried out. Also faculty collects the feedback and problems of students during counseling meetings. They report it to HOD. HoDs and Vice Principal convey this information to the Principal. In the meeting of the Principal with the management, this information is discussed. Based on these discussions, activities are revised. Periodic meetings with alumni, parents, students and staff ensure that all the stakeholders are aware of the college activities.
➤   Feedback from other stakeholders i.e. alumni, parents, employer is collected once in a year.
Analysis of this feedback is carried out. Based on received feedback, the Institution takes corrective measures to improve its performance. The comments of stakeholders are also communicated to University authorities through workshops, meeting of Dean, Vice Chancellor, and officers of Academic Council. The faculty who is involved in curriculum development gives the feedback to the core group formed by the University.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
UG Courses:			
Computer Science	120	116	114
Electrical Ist Shift	60	49	49
Electrical 2nd Shift	60	23	23
Electronics & Telecommunication	60	25	22
Civil	60	60	57
Mechanical	120	107	75
PG Courses:			
ME (CSE)	30	-	2
ME (Mech. Engg)	24	-	8
ME (EXTC)	30	-	7
ME (EPS)	24	-	6
MBA	60	60	60
MCA	60	12	11

2.2 Catering to Student Diversity					
2.2.1. Student - Full time teacher ratio (current year data)					
Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only	Number of teachers teaching both UG and PG courses
2017-18	2142	241	126	41	06

2.3 Teaching - Learning Process

2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems

Number of teachers on roll	Number of teachers using	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
Electrical- 18	18	Virtual Lab, NPTEL	7	2	PPTs,
Computer-24	24	Virtual Lab, NPTEL	8	2	IEEE , PPTs
Mechanical-24	24	Virtual Lab, NPTEL	5	2	ASME, PPTs
Electronics-16	16	Virtual Lab, NPTEL	3	2	IEEE , PPTs
Civil-12	10	NPTEL	3	2	PPTs
MCA-09	09	NPTEL	2	1	PPTs
MBA-07	07	NPTEL	2	1	PPTs
Science & Humanity-16	16	NPTEL	2	1	PPTs

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
2142	126	1:17

2.4 Teacher Profile and Quality				
2.4.1 Number of full time teachers appointed during the year				
No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
Electrical - 21+4= 25	25			02
Mechanical - 24+4= 28	28			02
Civil - 12	12			01
Electronics – 12+3= 15	15	NIL	NIL	00
Computer – 24+12= 36	36			00
MBA – 06	06			00
MCA - 09	09			01

2.4.2 Honours and recognitions received by teachers
(received awards, recognition, fellowships at State, National, International level from Government, recognised

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
September 5, 2018	Prof. Mohammad Zuhair	Associate Professor, & Vice-Principal	Received "'AMP National Award For Excellence in Education 2018'
March 10, 2018	Dr. S. B. Warkad	Professor	Received *"Best Academician of the Year Award "in* "Research Excellence and Academic Awards" (REAA-2018), Combined Society for Educational Research & Development, Dehradun, UK, India and Sponsored by N. L. Dalmia Institute of Management Studies, Mumbai.

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
Electronics & Telecommunication Engg.	110737210	Sem- 4 / 2nd Year	30/05/2018	June-July 2018
		Sem - 6 / 3rd	29/05/2018	June-July 2018
		Sem - 8 / 4th	27/05/2018	June-July 2018
Electrical	110729310	Sem- 4 / 2nd Year	13/04/2018	June-July 2018
		Sem - 6 / 3rd	13/04/2018	June-July 2018
		Sem - 8 / 4th	13/04/2018	June-July 2018
Mechanical	110761210	Sem- 4 / 2nd Year	13/04/2018	June-July 2018
		Sem - 6 / 3rd	13/04/2018	June-July 2018
		Sem - 8 / 4th	13/04/2018	June-July 2018
Civil	110719110	Sem- 4 / 2nd Year	13/04/2018	June-July 2018
		Sem - 6 / 3rd	13/04/2018	June-July 2018
		Sem - 8 / 4th	13/04/2018	June-July 2018
Computer	110724210	Sem- 4 / 2nd Year	13/04/2018	June-July 2018
		Sem - 6 / 3rd	13/04/2018	June-July 2018
		Sem - 8 / 4th	13/04/2018	June-July 2018
MBA	110710110	Ist Year	20/04/2018	July- Aug 2018
		2nd Year	20/04/2018	Aug 2018
MCA	110724110	Ist Year	20/04/2018	June-July 2018
		2nd Year	20/04/2018	June-July 2018

2.5.2 Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The Institute is affiliated to the university so the reforms suggested by the University has been adopted in curriculum, examination pattern and evaluation process. The Institute has appointed Chief Examination officer (CEO) who is university approved experienced faculty to deal with the university exam related matters. University has introduced online distribution of question papers and evaluation of answer sheets in examination of First year engineering from session 2015-16. The Institute has adopted Credit Based System for UG and PG programmes as per the reforms suggested by the University with effect from 2013-14.The Institute is also incorporating reforms in syllabus time to time as suggested by the University. Final year students Project work is evaluated through Seminars and Presentations conducted internally as well as through University evaluation process.

2.5.3 Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

A committee of academic calendar is comprised by the institution. The committee consisting of Principal, HoDs and Controller of Examinations prepare the academic calendar well in advance before the commencement of the semester. The calendar outlines the semester class work schedule, internal examination schedule and external examination schedule. Academic calendar also includes total working days, assessment schedule, academic events, holidays, etc. in concurrence with the University calendar. The intended learning outcomes are achieved through Academic calendar, teaching plan and course material availability, classroom lectures, interactive sessions, laboratory sessions, library, class tests, self-study, assignments, seminars, presentations, etc.

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink): Displayed on Website of the Institutions.
http://www.prpcem.org/Department.aspx?pg=Civil
http://www.prpcem.org/Department.aspx?pg=Computer%20Science
http://www.prpcem.org/Department.aspx?pg=Electrical
http://www.prpcem.org/Department.aspx?pg=Electronics%20and%20Tele
http://www.prpcem.org/Department.aspx?pg=First%20Year
http://www.prpcem.org/Department.aspx?pg=MBA
http://www.prpcem.org/Department.aspx?pg=MCA
http://www.prpcem.org/Department.aspx?pg=Mechanical

2.6.2 Pass percentage of students

Program me Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
110729310	Electrical Engg	153	86	56.20
110761210	Mechanical	153	123	80.00
110719110	Civil	67	65	97.00
110724210	Computer	147	139	94.55
110737210	Electronics & Telecommunication Engg.	78	64	82.05
110724110	MCA	29	29	100.0
110710110	MBA	36	25	69.22

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall performance (Institution may design the questionnaire) (results and details be provided as weblink)
Weblink: **http://www.prpcem.org/naac/iqac/sss_report.xlsx**

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Resource Mobilization for Research

3.1.1 Research funds sanctioned and received from various agencies, industry and other

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the Academic
Major projects	01 year	DST	05 Lakhs	05 Lakhs
Minor Projects	Nil	Nil	Nil	Nil
Interdisciplinary Projects	Nil	Nil	Nil	Nil
Industry sponsored Projects	Nil	Nil	Nil	Nil
Projects sponsored by the University/	Nil	Nil	Nil	Nil
Students Research Projects *(other than compulsory by the College)*	One Year	IEDC, DST, Govt. of India, New Delhi	05 Lakhs	05 Lakhs
International Projects	Nil	Nil	Nil	Nil
Any other(Specify)	Nil	Nil	Nil	Nil
Total			**Rs. 10 Lakhs**	**Rs. 10 Lakhs**

3.2 Innovation Ecosystem

3.2.1 - Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia

Sr. No.	Title of Workshop/Seminar	Name of the Dept.	Date(s)
01.	PHP Technology	Computer Science and Engineering	31st July – 1st Aug. 2017
02.	Automobile & Vehicle Dynamics	Mechanical Engineering	24th July – 30th July, 2017
03.	Advances in Geotechnical Engineering	Civil Engineering	11th Jan., 2018
04.	Practical Era in Structural Engineering	Civil Engineering	29th Jan., 2018
05	PHP Technology	Master in Computer Application	11th-16th August 2017
06	NPTEL Awareness Program for faculty	Master in Computer Application	11th November 2017
07	Android Technology	Master in Computer Application	30th Jan.-5th Feb.2018

3.2.2 - Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Sr. No.	Title of the Innovation	Name of the Department	Awarding Agency	Date of Award	Category
01.	Eco Green Light Water Combo	Mechanical Engg.	BHAU Foundation	15th April 2018	Environment

02.	SINEWS – The Walking Aid	Mechanical Engg.	BHAU Foundation	15th April 2018	Social

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored
IIT Bombay Nodal Center for Virtual Lab	PRPCEM- Virtual Lab,Amravati	IIT Bombay
NPTEL Local Center	P.R.P.C. E & M, Amravati	IIT Madras
IIT Spoken Tutorial	P.R.P.C. E & M, Amravati	IIT Bombay

Name of the Start-up	Nature of Start-up	Date of commencement
Nil	Nil	Nil

3.3 Research Publications and Awards

3.3.1 - Incentive to the teachers who receive recognition/awards

Department	State	National	International
CSE	Nil	01	01
Elect. Engg.	01	Nil	Nil
Total	**01**	**01**	**01**

3.3.2 - Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	No. of Ph.Ds Awarded
Mechanical Engineering	01
Electrical Engineering	01
Total	**02**

3.3.3 - Research Publications in the Journals notified on UGC website during the year

Sr. No.	Departments	No. of Publications		Average Impact Factor, if any
		National	International	
01.	Science & Humanities	00	15	-
02.	CSE	00	15	-
03.	Mech. Engg	00	10	4.2
04.	Elect. Engg.	00	18	4.5
05.	Civil Engg.	00	01	-
06.	EXTC	00	17	-
07	M.C.A	00	05	-
08.	MBA	01	02	-
	Total	**01**	**83**	**-**

3.3.4 - Books and Chapters in edited Volumes / Books published, and papers in National/International

Department	No. of Books Published

CSE	01
Elect. Engg	08
M.C.A	01 (Book Chapter in IGI Global)
MBA	01
Total	**11**

3.3.5 - Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

Title of Paper	Name of Author	Title of the Journal	Year of Publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
First Year Engineering						
To study the present status of supply chain management in medium scale agro implements manufacturing industries	Prof P. R. Wadnerkar	Journal of Mechanical and Industrial Engg. Research,	2017-18	-	-	-
To study the present status of supply chain management in medium scale agro implements manufacturing industries	Prof P. R. Wadnerkar	SSRG International journal of economics and management studies	2017-18	-	-	-
Supply chain Management: A Review	Prof P. R. Wadnerkar	IJRSP	2017-18	-	-	-
Structural and Morphological Analysis of ZnO Nano-particles filled Low Density Polyethylene Thin Films	Dr N R Thakare	IJIRST – International Journal for Innovative Research in Science & Technology|	2017-18	-	-	-
Uitrasonic study of substituted quinoxaline in ethanol solvent at 305.85 k	Dr.Nilima A.Kalambe	J.Chem.Pharm.Res. www.jocpr.com	2017-18	-	-	-
Ultrasonic behavior and study of molecular interaction of 2-hydroxy substituted quinoxaline in ethanol medium	Dr.Nilima A.Kalambe	IJCPS www.ijcps.org	2017-18	-	-	-
Ultrasonic behavior and study of molecular interaction of hydroxyl substituted quinoxaline in dioxane medium	Dr.Nilima A.Kalambe	Journal of.Chem. Pharm. Res. www.jocpr.com	2017-18	-	-	-
Alkali metal promoted iron-moybdenum oxide as catalysts for anaerobic transformation of cyclohexanol to	Dr. Y.K. Vyawahare	Name of Journal: JICS	2017-18	-	-	-

cyclohexene						
Bianchi Type-I Cosmological Model in the Presence of Wet Dark Fluid with Magnetic Flux	Ms. S. A. Bhojne	Pre space time J.	2017-18	-	-	-
Magnetized Anisotropic Bianchi Type-V Cosmological Model for Two Fluids in General Relativity	Ms. S. A. Bhojne	*IOSR Journal of Mathematics (IOSR-JM)*	2017-18	-	-	-
Bianchi Type-V Cosmological Model of Non Linear Spinor Field coupling with electromagnetic field	Ms. S. A. Bhojne	Journal of Technical research Organization India	2017-18	-	-	-
TKCMBD theory of gravitation	Ms.Sarika P. Shahare	MPLA, Publisher-World Scientific Publ Co Pte Ltd	2017-18	-	-	-
Structural and Morphological analysis of ZnO Npsfilled LDPE thin films	Dr. M.C.Golchha	International Journal for Innovative Research in Science & Technology	2017-18	-	-	-
convolution structure for fractional cosine transform	Dr . S. A. Khapre	Aayushi International Interdisciplinary Research (AIIRJ)	2017-18	-	-	-
Comp. Sci. Engineering						
Review on an Approach of Attribute Based Encryption in Method with Verifying Outsourced Encryption in Mobile Cloud Computing	Prof. K. B. Bijwe	IJSART	Jan-18	-	-	-
Enhancing Small Medium Enterprises Opportunity through online food potal system.	Prof. K. B. Bijwe	ICRTDE, Bankok Thailand	Feb-18	-	-	-
A Survey on implementation of homomorphic encryption scheme in cloude based Medical Analytical System	Prof. P. B. Sambhare	IJRRTCC	Jan-2018	-	-	-
Implementation of Homomorphic Encryption Scheme in Cloud based Medical Analytical System	Prof. P. B. Sambhare	IJRSR	Apr-18	-	-	-
A Review on Preventing insider threads and stealthy attacks from sonet site	Prof. P. B. Sambhare	IJRRTCC	Jan-18	-	-	-
A survey on Privacy preserving technique in cloud environment	Prof. K. K. Chhajed	ICCTCT	Mar-18	-	-	-
A survey on Privacy	Prof. A. R.	ICCTCT	Apr-18	-	-	-

preserving technique in cloud environment	Ladole			-	-	-
A new authentication strategyfor multiservice authorazation over cloud	Prof. A. R. Ladole	ICCMC	Feb-18	-	-	-
A review on preventing professional network by using human behavioral activity log	Prof. P. S. Tekade	IJRITCC	Mar-18	-	-	-
Secure file sharing with intrusion detection in cloud computing	Prof. S. S. Sagane	IJSRD	Apr-18	-	-	-
Random Sequence on Color Image using k-n Secret Sharing Visual Cryptography Scheme	Prof. P. V. Kale	ICRTDE, Bankok Thailand	Feb-18	-	-	-
A Review on Malicious URL Detection using Machine Learning Systems	Prof. D. C. Dhanwani	IJRITCC	Apr-18	-	-	-
A Review on Detection of Salient Region by Local Spatial Support & High Dimensional Color Transform	Prof. A. P. Dhande	IJSRC&T	Mar-18	-	-	-
Detection of Salient Region by Local Spatial Support & High Dimensional Color Transform	Prof. A. P. Dhande	IJARES&T	Mar-18	-	-	-
Access control of cloud data with faulty anonymous based encryption	Prof. M. S. Burange	IJSETR	Feb-18	-	-	-
Review of an Authentication Protocols	Prof. F. M. Shelke	IJRITCC	Apr-18	-	-	-
Mechanical Engineering						
An EPQ Model for deteriorating items with mix demand pattern	Prof. P. S. Ardak	International Journal of Mechanical Engineering and Technology, Vol 8	2017-18	-	-	3
An EPQ Model for deteriorating items with mixed demand pattern and time dependent holding cost	Prof. P. S. Ardak	International Journal of Scientific and Engineering Research, Vol 8	2017-18	-	-	-
An EPQ model with time dependent holding cost and varying deterioration rate	Prof. P. S. Ardak	International Journal of Mechanical Engineering and Technology, Vol 8	2017-18	-	-	-
An EPQ Model with varying rate of deterioration and mixed demand pattern	Prof. P. S. Ardak	International Journal of Mechanical and	2017-18	-	-	-

		Production Engineering Research and Development Vol 7		-	-	-
An economic production quantity model with inventory dependent demand and deterioration	Prof. P. S. Ardak	International Journal of Engineering and Technology Vol 9	2017-18	-	-	-
A review of passive technique used for heat transfer enhancement in heat exchanger	Prof. V. G. Gore	International Research Journal of Engineering and Technology, Vol 5	2017-18	-	-	-
Energy Audit in Small Scale Industries - A Review	Prof. M. G. Walecha	International Journal of Advance Research, Ideas and Innovations in Technology, Vol 4	2017-18	-	-	-
Heat enhancement through circular pipe using twisted tapes	Prof. P. S. Ardak	International Journal of Research in Science and Engineering, Vol.4	2017-18	-	-	-
A Method to upgrade surface finish of parts fabricated by fused deposition modeling	Prof. S. S. Dhoke	International Journal of Innovative Research in Science, Engineering and Technology, April 2018	2017-18	-	-	-
A Re- review of thermoelectric module	Prof.D.K. Chavhan	International conference on idea ,Impact and innovation mechanical engineering volume-5	2017-18	-	-	-
Electrical Engineering						
Voltage Security Assessment by using PFDT, and CBR Methods in Emerging Power System	Dr. S. B. Warkad	*ELSEVIER Energy Procedia*, Volume 144, July 2018. Science Direct Indexed	2018	-	-	-
Day Ahead Electricity Transmission Price Prediction using FFNN	Dr. S. B. Warkad	*Journal of Advanced Research in*	2018	-	-	-

		Dynamical and Control Systems, Volume-10, Issue-02-Special Issue, 2018, Pages: 1379-1385. Elsevier Scopus Indexed				
Application of PSAT to load flow analysis with STATCOM under load increase scenario and line contingencies	Prof. A. S. Telang	Journal of Institution of Engineers (INDIA)	2018	-	-	-
Comparison of locational marginal transmission pricing	Dr.S.B. Warkad	IJSRSET,NOV	2017	-	-	-
Optimal spot pricing of electricity in restructured electricity market	Dr.S.B. Warkad	IJRASET,DEC	2017	-	-	-
AC DC based optimal spot pricing of electricity in restructured electricity market	Dr.S.B. Warkad	IJARSE,DCE	2017	-	-	-
Review on prototype design on distribution automation for 11 kv /0.415kv substation	Dr.S.B. Warkad	JNCET.DEC	2017	-	-	-
Design of Distribution Automation System with SCADA	Dr.S.B. Warkad	IJARSE 12 DEC 2017,VOL 6 ISSUE 12	2017	-	-	-
Review of price forcasting technique in deregulated electricity market	Dr.S.B. Warkad	IJIR,2017	2017	-	-	-
Optimal Spot Pricing of Electricity in Restructured Electricity Markets	Dr.S.B. Warkad	IJRASET,2017	,2017	-	-	-
Comparison of Locational Marginal Transmission Pricing"	Dr. S. B. Warkad	IJSRSET,DEC 2017	2017	-	-	-
Multi-Machine power system stability enhancement by using SSSC with PI controller	Prof.Y.D. Shahakar	IJIERTDEC 2017	2017	-	-	-
Design of Distribution Automation System with SCADA	Prof.R.D. Sonone	IJARSE 12 DEC 2017,VOL 6 ISSUE 12	2017	-	-	-
Review on power quality improvement by using UPQC	Prof. J.B.Mokalkar	IJRPET,NOV 2017	2017	-	-	-
Power quality improvement by using UPQC Distribution side	Prof. J.B.Mokalkar	IJSRD,NOV 2017	2017	-	-	-
Power quality based optimal nodal pricing in tradable	Dr.S.B. Warkad	IJET,2018 Scopus Indexed	2018	-	-	-

electricity market				-	-	-
Optimal nodal pricing in tradable electricity market	Dr.S.B. Warkad	IJPAM,2018, Scopus Indexed	2018	-	-	-
Protection of distribution level feeder using directional over-current elements	Prof. D.A. Shahakar	IFERP, 2018	2018	-	-	-
Electronics & Telecommunication Engineering						
Assistant Navigation System for Visually Impaired People	Prof. R. D. Ghongade	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 7, Issue 4	April 2018	-	-	-
Random Forest and Extreme Learning Machine Based CAD System for Breast Cancer	Prof. R. D. Ghongade	Journal of Engineering and Applied Sciences, Vol. 12, Issue 12 SI, 2017, SCOPUS Indexed, ISSN: 1110-1903, E-ISSN: 2536-9512.	2017	-	-	-
Breast cancer diagnosis from Digital Mammograms using RF and RF-ELM	Prof. R. D. Ghongade	Springer's LNNS, International Conference on Recent Advancement in Computer & Communicatio n (ICRAC-2017), Bhopal.	2017	-	-	-
Detection and Classification of Breast Cancer from Digital Mammograms using RF and RF-ELM Algorithm	Prof. R. D. Ghongade	IEEE digital Xplore, IEEE International Conference on Electronics, Materials Engineering& Nano-Technology (IEMENTech), Kolkata.	2017	-	-	-
Computer-aided Diagnosis System for Breast Cancer Using RF Classifier	Prof. R. D. Ghongade	IEEE digital Xplore, IEEE International Conference on	2017	-	-	-

Title	Author	Publication	Year			
		Wireless Communications Signal Processing and Networking (WISPNET), Chennai				
An Improved Multi-secret Sharing Visual Cryptography Technique for Color Images Using Sterilization Algorithm	Prof. G. D. Dalvi	Springer's, International Conference on ICACCP, Volume 2	2017	-	-	-
Portable Gadget Based Assistive Text and Label Reading For Blind Person	Prof. S. K. Nanda	International Journal of Innovative Research in Science, Engineering and Technology Vol. 7, Issue 3	March 2018	-	-	-
Portable Gadget Based Assistive and Label Reading For Blind Person: A Review	Prof. S. K. Nanda	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue XII	Dec. 2017	-	-	-
Portable Gadget Based Assistive and Label Reading For Blind Person: A Review	Prof. S. K. Nanda	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue XII	Dec. 2017	-	-	-
Design and Analysis of Microstrip Patch Antenna for Different Applications	Prof. P. N. Pusdekar	International Journal of Science and Research (IJSR), Volume 6 Issue 12	Dec. 2017	-	-	-
Low Light Video Enhancement Using Effective Framework Approach	Prof. P. N. Pusdekar	International Journal of Advanced Research in Computer and Communication Engineering, Vol. 6, Issue 11	Nov. 2017	-	-	-

Review Paper on Design and Analysis of Micro-strip Patch Antenna for Different Applications	Prof. P. N. Pusdekar	Journal of Network Communications and Emerging Technologies (JNCET), Volume 7, Issue 9	Sept. 2017	-	-	-
Web searches for visual content: A multiple classifier approach	Prof. V. B. Padole	IEEE digital Xplore, IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)	Sept., 2017	-	-	-
Content Based Image Retreval System Based on Classifier Ensemble Approach	Prof. V. B. Padole	Journal of Engineering and Applied Sciences, Vol. 12, Issue 12 SI, 2017, SCOPUS Indexed.	2017	-	-	-
Detection of Salient Region by Local Spatial Support & High Dimensional Color Transform	Prof. A. P. Dhande	International Journal of Advance Research in Engineering, Science & Technology, Volume 5, Issue 3	March 2018	-	-	-
A Review on t & High Dimensional Color Transfer Detection of Salient Region by Local Spatial Supporm	Prof. A. P. Dhande	International Journal of Scientific Research in Science and Technology, Volume 3 , Issue 8	Dec., 2017	-	-	-
Master in Computer Application (MCA)						
Radon and Wavelet Transform for handwritten script identification	Dr. C. A. Dhawale	Springer ICCASP -26-27	Jan. 2018	-	-	-
Radon and Wavelet Transform for handwritten script identification	Dr.C. A. Dhawale	Springer-RACCCS	April 2018	-	-	-
Master in Business Administration (MBA)						

""Pharmaceutical Marketing: An Insight To Issues, Challenges And Future Trends Of E- Marketing Strategy For Prescribed Drugs"	Prof. Mahek Iram	conference on "Management Practices in the Digital Age", page no.205-226	Febraury,2018	-	-	-
"Effectiveness of Digital Advertising on Instagram followers"	Prof. Mahek Iram	international conference on "Business Remodeling: Exploring Initiatives in Key Business Functions"	Febraury,2018	-	-	-

3.3.6 - h-index of the Institutional Publications during the year. (based on Scopus/ Web of Science)

Title of Paper	Name of Author	Title of the Journal	Year of Publication	h - Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self citations
An EPQ Model for deteriorating items with mix demand pattern	Prof. P. S. Ardak	International Journal of Mechanical Engineering and Technology, Vol 8	2017-18	1	-	3
A Survey on Opinion Mining on Tourist Domain	Dr.C.A. Dhawale	IJPT, June	2017-18	05	-	12

3.3.7 - Faculty participation in Seminars/Conferences and Symposia during the year: 2017-18

No. of Faculty	International level	National level	State level	Local level
Attended Seminar/ Workshops	Nil	53	Nil	Nil
Presented Papers	03+08+7+05 = 23	01	Nil	Nil
Resource	Nil	01	01	Nil
Total	**23**	**55**	**-**	**-**

3.4 Extension Activities

3.4.1 - Number of extension and outreach program conducted in collaboration with industry, community and

Sr. No.	Title of the activities	Organizing unit/agency/collaborating agency	No. of teachers co-ordinate such activities	No. of students participated in such activities

01.	Virtual Lab	IIT Bombay	02 (Prof V.B.Gadicha / Prof F.M.Shelke)	120
02.	Use of Solar Energy	Mechanical deptt.	05	120
03.	Design & Analysis of Power Transmission System for Cotton Feeding Automatic Central Trolly	Mechanical deptt.	Prof. V. G. Gore	06
04.	Design & Analysis of Horizontal hydraulic press machine	Mechanical deptt.	Prof. S. S. Dhoke	06
05	NPTEL Local Center	M.C.A Deptt	Dr.C.A.Dhawale	150
06	IIT Spoken Tutorial	M.C.A Deptt	Dr.C.A.Dhawale	350

3.4.2 - Awards and recognition received for extension activities from Government and other recognized Institutions

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
On 15th Indian Society for Technical Education (ISTE) Maharashtra – Goa State Level Student's Convention 2018 at Sandip Foundations, Nashik	Best Student Award	ISTE & Sandip Foundation Nashik.	01

3.4.3 - Students participating in extension activities with Government Organizations, Non-Government

Name of the scheme	Organizing unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
NIL	NIL	NIL	NIL	NIL

3.5 Collaborations

3.5.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial	Duration
NIL	NIL	NIL	NIL

3.5.2 - Linkages with institutions/industries for internship, on-the-job training, project work, sharing of facility

Nature of	Title of the	Name of the partnering	Duration	Participant

linkage	Linkage	institution/ industry	(From-To)	
Part Time (Project Analysis)	Thinking Objected Oriented Way in High Level Languages	Axioms TechGuru Pvt. Ltd.	19 June 2017	1. Ms. Tejaswini Pote 2. Ms. Pratiksha Sonone
Part Time	Automobile & Vehicle Dynamics	AMZ Automotive	24th to 30th July, 2017	117

3.5.3 - MoUs signed with institutions of national, international importance, other universities, corporate houses etc. during the year

Sr. No.	Organization	Date of MoU signed	Purpose and	Number of students/teachers participated
01.	AMZ Automotive	22nd July.,2017	Industry Training	117 Students
02.	Axioms Softech Pvt. Ltd	13-Jan-2017	Networking and Industry Training	124 Students
03	Ctronics-Pvt.LTd	5th August 2017	Major Project Internship	16 students

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure	Budget utilized for infrastructure development
05 Lakhs	02 Lakhs

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	30352 Sq. Mtrs	-
Class rooms	34	-
Laboratories	50	-
Seminar Halls	05	-
Classrooms with LCD facilities	34	-
Classrooms with Wi-Fi/ LAN	00	34
Seminar halls with ICT facilities	03	01
Video Centre	00	01
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	-	-
Value of the equipment purchased during the year (Rs. in Lakhs)	-	-
Others	-	-

4.2 Library as a Learning Resource

4.2.1 Library is automated {Integrated Library Management System -ILMS}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
LIBMAN	Fully	3.0	2009

4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value

Text Books Reference Books	8818	4142613	231	94384	9049	42,36,997
e-Books	435	-	115	-	-	-
Journals	397	1035050	54	164000	451	1190050
e-Journals		2431331	7500	141600	-	2572931
Digital Database	-	-	-	-	-	-
CD & Video	-	-	728	-	-	-
Library automation	-	-	-	-	-	-
Weeding (Hard & Soft)						
Others (specify)	-	-	-	-	-	-

4.3 IT Infrastructure
4.3.1 Technology Upgradation (overall)

	Total Compu ters	Compu ter Labs	Internet	Browsing Centres	Comp uter Centre s	Office	Depart ments	Available band width (MGBPS)	Others
Existing	574	14(5+9)	BSNL Broadband	14	01	01	07	20&50 MBPS	-
Added	-	-	-	-	-	-	-	40&50 MBPS	
Total	**574**	**14**	-	**14**	**01**	**01**	**07**	-	-

4.**3.2 Bandwidth available of internet connection in the Institution (Leased line) 140 MBPS /GBPS**

4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and
Nil	-

4.3.4   E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc – In Process

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content
-	-	-	-

4.4 Maintenance of Campus Infrastructure
4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
75.0 Lakhs (Rs.)	68.73 Lakhs (Rs.)	1.50 Lakhs (Rs.)	1.48 Lakhs (Rs.)

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. *(maximum 500 words)* **(information to be available in institutional Website, provide link)**

A Coordinator is appointed for the overall developmental and maintenance work. He has a team of skilled and semiskilled personnel working under him. This team looks after the daily maintenance of civil works such as furniture repairs, masonry and plaster works, painting carpentry, plumbing and house-keeping work. There is a separate Faculty in charge of the responsibility of overall electric works, who also has a team of electricians working with him.

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Scholarships and Financial Support

	Name/Title of the Scheme	Number of Student	Amount in Rupees
Financial support from institution	PRPCOEM Scholorship	46	1032347.00

Financial support from other sources

a) National	State Government	1675	9.5 Crore
b) International	-	-	-

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and

Name of the capability enhancement scheme	Date of implementation	Number of students	Agencies involved
Guest Lecture for 4th Year	24th June 2017	80	Mr. Prasanna Mehare
GATE awareness	20th July 2017	130	The Gate Academy
Science Train Visit	30th July 2017	70	Team FOCI
PHP Workshop	31th July – 1 Aug 2017	25	SSIT Pvt. Lmt. Nagpur
Aptitude & Technical Test	31st Aug 2017	125	Team FOCI
Guest Lecture on Personality Development for 3rd Year	13th Sept 2017	100	Mr. Shivaji Kuche Director of New Easy English Speaking Academy
Yoga, Meditation Guest Lecture	23th 2018	100	Swami Nityanand
Guest Lecture	13th Feb 2018	150	Ms. Shirole (Actress)
7 Days Training Program on Automobile and Vehicle Dynamics With Practical Session	24-30th July 2017	60	AMZ Automotive
Personal counseling	1-08-2017	439	CSE DEPT
Virtual lab (IIT Mumbai)	5-10-17 & 6-10-2017	200	(IIT Mumbai)
Placement Preparation	18th June 2018	25	Training and Placement Cell
Counselling	22nd June 2017	88	Faculty members of Department
Software Language Training	20th June 2017 to 30th June 2017	66	Webakruti Software Sol.
Aptitude Training	3rd July to 8th July 2017	66	T &P Department

Soft Skill Development	As per Time Table	65	Faculty from Institute
Language Lab	As per Time Table	75	Faculty from Institute
Personal Counseling and Mentoring	From Start of Session	200	Departmental Faculty

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the Institution in this year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2017-18	Placement Preparation	02	15	02	20
2017-18	Gate Awareness	120	120	Nil	Nil
2017-18	1. Soft Skill Training 2. GATE Carrier Guidance 3. Personality Development Sessions	-	39	-	39
2017-18	4. Soft Skill Training 5. GATE Carrier Guidance 6. Personality Development Sessions	-	39	-	39
2017-18	Counseling and Guest Lecture	61	61	03	03

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance Redressal
NIL	-	-

5.2 Student Progession

5.2.1 Details of campus placement during the year

On Campus			Off Campus		
Name of Organization s Visited	Number of Students Participated	Number of Students Placed	Name of Organization s Visited	Number of Students Participated	Number of Students Placed
Concierge Technology	168	10	Chintamani Associate Ramtech Software Solutions	05	05
NeoSoft Technologies	168	8	Chintamani Associate Ramtech Software Solutions	05	05

Eternus Solutions	135	1			
MakeMyHolidays	205	4			
Amazon	244	10			
Mastiff Solutions	10	3			
IBM Conentrix	33	5			
EPIC Research	244	46			
Techinfini	81	5			
Rectra IT Infosystem Pvt. Ltd.	163	38			
Paramatrix	130	2			
Alacrity Solutions	130	2			
Oppo Mobile	15	1			
Global Metro	130	1			
Esense Technologies	130	2			
Cryptex Technologies	130	3			
Axiom Techguru Pvt. Ltd.	135	2			
Shriram Finance Pvt. Ltd.	244	18			
CMS IT Services Pvt. Ltd.	131	26			
CINIF	130	14			
Tech Mahindra	135	1			
Ambuja Cement	45	1			
I am First Solutions Pvt. Ltd.	130	4			
STPC Ltd.	130	1			
Treo Engineering Pvt. LTd	130	2			
Appolo Munich	165	1			
ICICI Securites	130	1			
Shield Research	131	2			
Dollar Advisory Financial Services	245	135			
Equicom	130	2			
Curologic System	130	1			
HFFC	205	5			
Collabera	165	4			
Sthapathya Consultancy	130	1			

5.2.2 Student progression to higher education in percentage during the year					
Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution Joined	Name of Programe admitted to
2017-18	10	BE	CSE	-	ME, MBA
2017-18	06	BE	Civil Engineering	G.C.O.E. Amravati G.H. Raisoni, Amt.	ME (Structural Engineering, Transportation Engineering)
2017-18	02	BE	Electrical Engineering	G.C.O.E. Amravati	ME (Electrical

				Power System)

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ Qualifying	Registration number/roll number for the exam
NET	NIL	NIL
SET	NIL	NIL
SLET	NIL	NIL
GATE	4	CE18S82041185, CE18S72037009, ME18S22041125, CS18S32040043
GMAT	NIL	NIL
CAT	NIL	NIL
GRE	NIL	NIL
TOFEL	NIL	NIL
Civil Services	NIL	NIL
State Government Services	NIL	NIL
Any Other	NIL	NIL

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participant
Chess	Intercollegiate	06
Swimming (Boys)	Intercollegiate	04
Swimming (Girls)	Intercollegiate	01
Cross Country(Boys)	Intercollegiate	09
Cross Country(Girls)	Intercollegiate	01
Basketball	Intercollegiate	12
Volleyball(Girls)	Intercollegiate	12
Judo(Girls)	Intercollegiate	01
Athletics(Girls)	Intercollegiate	11
Athletics(Boys)	Intercollegiate	32
Volleyball(Boys)	Intercollegiate	12
Kho Kho(Boys)	Intercollegiate	12
Kabaddi(Boys)	Intercollegiate	12
Weight Lifting	Intercollegiate	01
Wrestling(Girls)	Intercollegiate	01
Badminton(Boys)	Intercollegiate	05
Cricket	Intercollegiate	16
Annual Gathering-Unmesh-2018	College Level	25

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award /	National/ International	Sports	Cultural	Student ID number	Name of the student

	medal					
2017-18	Particip ated	National	Wrestling			Miss. Krutika Kurvade
2017-18	Particip ated	State	Long Jump			Miss. Rupali Gohad

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

A Student Council is a representative structure through which students in a college can become involved in the affairs of the college, working in partnership with college management and staff and parents for the benefit of the college and its students.

The University is also a training ground for students to develop skills of good governance. Hence these elections are organized to help them practice these skills and learn the skill of representation. Hence the students have an experience in the skills of democratic representation and participation. As per the Maharashtra Universities Act, (M.U.A.) 1994 section 40, Students' Council is to he established every year during the first term. As per section 40 (2) (b) of the said M. U. Act, 1994 the college / institute has to from the Students Council and inform the names of the same to the Director, Board of Students' Welfare. As per section 40 (2) (a) there will be a University Departments Student Council who in turn will elect its University representative. After completion of the above, 11 members will be nominated to the university Students Council as per provisions of section 40 (4) (a) of the M.U. Act, 1994 by the Vice-Chancellor.

As per instruction given by the university on 18/12/2017, student council election conducted in the college in the month of January 2018.

The selection criteria for the post of Student council secretary are laid by the Amravati University Gazette-1997.

Student council secretary along team members of the college conducted UNmesh 2018. In this Mega Event culture activities like Dance, Drama, Fashion Show, and Singing had been carried out for individual and for group.

Sport secretary of the institute along team members conducted various sports events like cricket, volley ball, Badminton, chess, for students of the college in the month of February 2018.

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words)

Yes. The College has a registered Alumni Association with 11 executive committee members. The website for the same is http://www.potepatilalumni.org. Strength and standing of the institution is continued to be witnessed by the professionally competent. Alumni proving their worth in academia and industry all over the country and overseas. The members of the Alumni Association plays a great role in the development of the college by providing a platform for aluminous to share their knowledge and expertise for the growth of their alma mater.

The alumni association organizes alumni meets once every year. Apart from this, the feedback from the other Alumni is also collected during the Alumni meets conducted/visit of alumni to institute.

From the feedback analysis required input to the Placement Officer and respective departmental head were provide about ethics and diversion in the industry, enrichment of the curriculum, about necessary mock training and new methods of improving the employability.

5.3.2 No. of ~~registered~~ enrolled Alumni: 350 Nos.

5.3.3 Alumni contribution during the year (in Rupees) : Nil

5.3.4 Meetings/activities organized by Alumni Association :

The activities of Alumni Association:
1) 2 Meeting during each semester about planning and execution of the activities.
2) Alumni Induction Program in March every year.
3) Alumni Reunion events every year.

Contributions of the Alumni Association
1) The departmental in-charge invites eminent alumni to deliver technical lectures for the benefit of the students.

2) Coordinating Alumni as members of departmental Board of Studies.
3) Inviting Alumni to conduct mock interviews and group discussions.
4) Displaying 'Know Your Alumni' department-wise fortnightly to ensure better connect between Alumni and students.

CRITERION –VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (Maximum 500 words)

The Institute is planning to establish Dean's structure in order to decentralize the work activity and to enhance smooth functioning of the centralized activities. Following Dean Structure is under process. i.e. Dean (Academics), Dean (R&D), Dean (Admin), Dean (Student welfare) etc. The management is now participative in infrastructure development, quality of Academics & practices and Research & Development in the Institution.

6.1.2 Does the institution have a Management Information System (MIS)?

- Yes, Feedback, Monthly Attendance, Leave Record

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (within 100 words each):

Curriculum Development:

In light with the NBA accreditation, the Institute is planning to introduce Outcome based Education philosophy in the Professional Education. Delivery of topic beyond syllabus, so as to cater the Industry-Institute gap is highly promoted in departments. Special training courses are also encouraged to develop student's technical skills which are demanded in the market. Students are identified as Fast/medium and Slow learners and special classes are organized to cater individual needs.

Teaching and Learning:

Following measures are initiated to enhance Teaching and Learning process in the department-
- To prepare Academic policy.
- At departmental level, appointment of academic coordinator, R&D coordinator and T&P coordinators for smooth functioning.
- Extra lectures & Remedial lectures is planned for slow learners and maintain the documentation which shows the efforts taken by department.
- Topics beyond syllabus for each subject are to be delivered in class.
- Prepare teaching plan for high / medium / slow learners.
- Proper Mechanism and process for Teaching -Learning is to be documented.
- Action Taken Report (ATR) to be documented
- Course assignments are initiated. Internal question papers now based only on class learning.
- Higher level skills to be tested and documented.
- Focus need to be given on T-L process & POs attainments
- Understand of Bloom's taxonomy
- Improvement in subject tutorials
- Content delivery innovation to be practiced.
- Guest lecture may be as per gap analysis and requirements
- Increase e-resources. Teaching in class through Video/Animations.
- Test series to be conducted for poor/weaker students.

Examination and Evaluation:
- Evaluation of marks which consists of Internal marks through continuous assessment (Test exam + Viva-voce + Assignment) and external marks scored in End Semester Examination.
- Automation of the examination cell to ensure timely declaration of results to keep the academic calendar on schedule.

Research and Development:
- The Institute is planning to established separate research centre in Electrical and Mechanical

Engineering Departments as per approval by SGBAU University
- Incentives for research publications and research projects are provided
- To promote R & D activities, progress review is conducted for faculty members having Ph.D degree and research scholars.
- Funded projects are invited to justify the research in departments.

Library, ICT and Physical Infrastructure/Instrumentation:
- Every year Central library is added with required books, E-Journals and Magazines.
- The Institute is promoting Smart class Room concept in each department.
- Books exhibition is arranged every year thro' vendors at campus to identify the quality books
- Every department has individual air-conditioned seminar hall with LCD projector
- Smart TV and computer system with internet connection

Human Resource Management:
- Recruitment of faculty and staff are based on the guidelines provided by SGBAU
- University and AICTE, New Delhi.
- There are many staff welfare schemes namely EPF, Group insurance and Accidental policy
- Sponsorship of Higher Studies for Faculties
- Organizing Developmental training programme and workshops/seminars for enhancing the multi-skills of faculties.
- Effective appraisal system has been followed to assess the performance of faculties. Faculty members are promoted to higher positions based on their experience, skills and achievements.

Industry Interaction / Collaboration:
- Consultancy to be encouraged in the Labs. Several testing facility in the labs be created and promoted for revenue generation.
- Documentation to be prepared properly as per NBA requirement which includes Impact analysis and POs attainment and prepare documentation.
- Identify equipments in the labs which can contribute towards R&D and shall be procured.
- MOUs on focused areas only. It is to be done in order to increase IIIC activities in the department
- Encourage more workshops to be conducted in the department.
- Experts from Industry shall be invited for Guest Lectures in the department.

Industry Interaction

Sr. No.	Name of the Industry	Location	No. of Students Visited	Year
1	Electronics Test and Development Centre, Mohali	B-108, Phase 8, Industrial Area, Sahibzada Ajit Singh Nagar, Punjab 140308	28 (EXTC)	2017-18
2	The Semi-Conductor Laboratory, Mohali (SCL)	Department of Space, Govt. of India, Phase 8, Industrial Area, Sector 73, Sahibzada Ajit Singh Nagar, Punjab 160071	28 (EXTC)	2017-18
3	JAY BEE Industry	Chandigarh and Manali	93 (EE)	2017-18
4	Vikram Sarabhai Space Centre (VSSC) , ISRO	Trivendram	78 (CSE)	2017-18
5	Spectram Pvt. Ltd	Mumbai	83 (CSE)	2017-18

MOUs signed with industries

Sr. No.	Department	Name of industry	Subject/Field of MOU
1	CSE	Axioms Softech Pvt. Ltd	Networking and Industry Training
2	Civil Engg	M/S Daga Infratech Private Limited	Lab Testing/Internship

		Amravati	
		M/S S.L. Khatri & Sons Private Limited ,Amt.	Lab Testing/Internship
		M/S Tongase & Patil Engineers (Regd) Amt.	Lab Testing/Internship

Admission of Students

Year	No. of Student admitted
2018-19	351

6.2.2 : Implementation of e-governance in areas of operations:
❖ **Planning and Development**   In Process
❖ **Administration**   In Process
❖ **Finance and Accounts**   Yet to start
❖ **Student Admission and Support**   All admissions are governed by DTE, Maharashtra State. The process is online
❖ **Examination.**   The Institute is affiliated to S.G.B. Amravati University. Online Examination and valuation process is followed by the Institution.

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards Membership fee of professional bodies during the year

Year	Name of Teacher	Department	Name of Conference/ workshop attended for which financial support provided	Name of professional body for which membership fee is provided	Amount of support
2017-18	Prof. G. D. Dalvi	EXTC	3-days workshop by UGC, HRDC held on 21st -23rd March, 2018	-	1000/-
2017-18	Prof. A. R. Pawade	EXTC	15 Days workshop on "Development and Installation of Solar System", held on 2nd – 17th January, 2018	-	5300/-
2017-18	Prof. G. D. Dalvi	EXTC	ICUBBEA, IEEE Conference at Pimpri Chichwad College of Engineering, Pune.	-	6000/-
2017-18	Prof. A.S.Telang	EE	Empowering academic excellence with an overview of industry 4.0	----	1000/-
2017-18	Porf.Y.D.Shahakar	EE	Empowering academic excellence with an overview	----	1000/-

Year					
			of industry 4.0		
2017-18	Prof.V.B.Gadicha	CSE	National Cyber Defence Summit 2017, BITS Pilani, Goa		3000/-
2017-18	Prof.V.B.Bhagat	CSE	Big Data & IOT Convergence, PRMIT & R,Badnera		1500/-
2017-18	Prof.P.V.Kale	CSE			1500/-
2017-18	Prof.V.B.Gadicha	CSE	International Conference on Computing , Communication ,Control & Automation ICCUBEA 2017 ,Pune		6000/-
2017-18	Prof.F.M.Shelke	CSE	Surya College of Engg,Erode,TN. ICCMC 2018		3000/-
2017-18	Prof.A.R.Ladole	CSE	SVS College of Engg,Coimbatore. ICCTCT 2018		3000/-
2017-18	Dr. P. S. Ardak	ME	International Conference on Industrial Engineering held at SVNIT, Surat		4500/-
2017-18	Prof. S. J. Deshmukh	ME	NPTEL Certificate Course on "Basics of FEM - I"		500/-
2017-18	Dr. P. S. Ardak	ME	International Conference on Materials and Manufacturing Engineering Kanchipuram		2500/-
2017-18	Prof. Mohd. Zuhair	Civil Engg	Theoretical Applied Computational & Experimental Mechanics ,ICTACEM	ICI	8000/-
2017-18	Prof. Mohd. Zuhair				10620/-
2017-18	Prof. N.P. Bhopale				10620/-
2017-18	Prof. S.V. Dhoke				10620/-
2017-18	Prof. A.R. Wadnerkar				10620/-

6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programmes organized for teaching staff	Title of the administrative training programmes organized for non teaching staff	Dates (from –to)	No. of Participants (Teaching staff)	No. of Participants (Non Teaching)
Department of Electronics & Telecommunication					
2017-18	One week STTP on "Research Trends in Communication Systems and Network using IoT with Hands-On on Raspberry Pi-3"	----	18th – 23rd June 2018	16	----
2017-18	Two day workshop on "Introduction and Hands-on Training on Raspberry Pi-3 and IoT"	----	8th – 9th November 2017	16	----

2017-18	3 - Days workshop on "Quadcopter and RC Plane Development"	----	23rd-25th September 2017	3	---
2017-18	One day workshop on "Operation and Getting Best from Lab Instruments"		14th June 2018	---	6
2017-18	Two days workshop on MS-Office		4th – 5th December 2017	---	6
Department of Computer Science & Engineering					
2017-18	Android Application Development by Mr. Nakul Deshmukh	-	20th- 23th Nov, 2017		7
2017-18	PHP Technology by Mr. Santosh Shelokar	-	31st July – 1st Aug. 2017		25
2017-18	One day training program on Linux installation	-	31st July – 1st Aug. 2017		09
Department of Mechanical Engineering					
2017-18	ISTE sponsored faculty development program on "Basics of Technical Research Paper Writing for Indexed Journal"	-	18th June to 23rd June 2018		45
Department of Civil Engineering					
2017-18	ISTE sponsored faculty development program on "Basics of Structural & Geotechnical Dynamics"	-	18th June to 23rd June 2018		39
Department of Electrical Engineering					
2017-18	ISTE sponsored faculty development program on "Applications of AI Techniques in Electrical Engg"	-	18th June to 23rd June 2018		38

6.3.3 Number of teachers attending professional development programs, viz Orientation programmes, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Name of professional development progammes	Number of teacher attended	Date and Duration
Department of Electronics & Telecommunication		
Orientation Programmes	1	21st -23rd March, 2018 3 Days
Refresher courses	---	---

Faculty Development Programme	---	---
Short Term Course	16	18th – 23rd June 2018 One week
	02	21th – 23rd June 2018 One week
Department of Computer Science & Engineering		
National Cyber Defence Summit 2017	2	2017
Big Data & IOT Convergence	2	2017
International Conference on Computing , Communication ,Control & Automation ICCUBEA 2017	1	2017
ICCMC 2018	3	15-16 Feb 2018
ICCTCT 2018	3	1-3 March 2018
Workshop on Android Application Development 2017	7	2017
PHP Workshop	25	2017
Introduction & hand-on traning on raspbery pi 3 & IoT	7	2017
FDP Android application	7	2017
Empowerment academic excellence with an overview of Industry	2	2017
Industry Interaction Meet 2017 BDCOET, Wardha	1	12-Apr-17
Department of Mechanical Engineering		
Renewable Energy source for Sustainable Development:Need, Technologies and Policies	5	25-30 Dec 2017
International conference on industrial engineering	2	21 – 23 Dec 2017
Rapid Prototyping for Industrial and Medical Applications	3	11-22 Dec 2017
Empowering Academic Excellence with an Overview of Industry 4.0	4	21-23 Dec 2017
Empowering Academic Excellence with an Overview of Industry 4.0	4	21-23 Dec 2017
Research Oriented training program on CNC machine	7	14-18 Dec 2017
TEQIP – III Sponsored Workshop on Engineering Design Optimization including Multi Disciplinary Optimization	2	4 – 8 June 2018
Finite Element Modeling Research & Industrial Application	4	21 – 26 June 2018
Department of Civil Engineering		
ISTE sponsored faculty development program on "Basics of Structural & Geotechnical Dynamics"	13	19-23 June 2018
Department of Electrical Engineering		
ISTE sponsored faculty development program on "Applications of AI Techniques in Electrical Engineering"	20	19-23 June 2018

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):

Teaching		Non-Teaching	
Permanent	**Fulltime**	**Permanent**	**Fulltime/Temporary**
-	-	-	-

6.3.5 Welfare schemes for	
Teaching & Non Teaching	• Free medical facility is provided to students, staff and faculty in college hours. • Group Insurance scheme; PF as per rule; Maternity leave; Medical leave; Mediclaim policy; Gratuity
Students	• University Group Insurance Policy

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)
- Yes. In the Month of April with financial year completion. The Audit is conducted by Chartered Accountant.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies

Name of the non government funding agencies/individuals	Funds/ Grants received in Rs.	Purpose
Nil	-	-

6.5 Internal Quality Assurance System				
6.5.1 Whether Academic and Administrative Audit (AAA) has been done?				
Audit Type	**External Agency**		**Internal Agency**	
Academic	Yes	VNIT and Other Private Engg Institutes, Nagpur	Yes	IQAC
Administrative	In process	-	No	IQAC

6.5.2 Activities and support from the Parent – Teacher Association:

Year	Activity	Date/Time	No. of Parents attended the meeting
Department of Electronics & Telecommunication			
2017-18	Parent- Teacher Meet	24 February 2018 12.30 pm – 3.30 pm	75
Department of Electrical Engineering			
2017-18	Parent- Teacher Meet	24 February 2018	40
Department of Computer Science & Engineering			
2017-18	Parent- Teacher Meet	17th March 2018	25

6.5.3 Development programmes for support staff

Sr. No.	Theme of FDP	Date and Year	No. of Participants (Non-Teaching Staff)
1	One day training program on Linux installation	9th Dec 2017	9

6.5.4   Post Accreditation initiative(s) (mention at least three)
1. External Academic Audit
2. Initiation of NBA Accreditation in Several Department
3. Up gradation of ICT based teaching methodology

6.5.5

a. Submission of Data for AISHE portal   : (**Yes**)

b. Participation in NIRF   : (**No**)

c. ISO Certification   : (**Yes**)

d. NBA or any other quality audit   : (**Yes**)

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to--	Number of participants
2018	Internal Academic Audit	19, 20, 21, 23, 24th June, 2018	19-24th June, 2018	HOD and All Faculty
2018	External Academic Auidt	19, 21, 23, 24th June, 2018	19-24th June, 2018	HOD and All Faculty

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period (from-to)	Participants	
		Female	Male
Gender based awareness and counselling is given to girls by Professional Counsellor	1 Lecture per week	20 Girls per batch	
Women's Day Celebration	1 Day 8/4/2018	85	

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources

Energy conservation
- Each block of institute has individual power control panels, which help in separate control of energy consumption.
- Energy conserving lights like CFL, LED lights are used in the Institute campus.
- Consciousness through awareness program to save energy in classrooms and laboratories when not in use.
- Most of the Classroom has direct access to sunlight which reduces the consumption of electricity.

Efforts for Carbon neutrality Plantation
- Tree plantation-The different types of trees are planted within the campus of the Institute.
- College has designed and manufactured the E-rickshaw for transportation within college campus.

7.1.3 Differently abled (Divyangjan) friendliness		
Items Facilities	**Yes/No**	**No. of Beneficiaries**
Physical facilities	Yes	07
Provision for lift	Yes	All
Ramp/ Rails	Yes	All
Rest Rooms	Yes	Needed Students
Scribes for examination	Yes	-

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantage	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2017-18	07	10	25/11/2017 to 02/02/2018	Awareness of Engineering Education and Technolo	Engineering Branches-Job Prospects and Technology	40 Faculty from each department and 300 students of various schools and colleges in nearby villages.

7.1.5 Human Values and Professional Ethics

To ensure that the Human Values and Professional Ethics are imparted apart from curriculum following activities are conducted:

- Prayer is conducted on daily basis before the beginning of everyday session.
- Blood Donation Camp is arranged every year in the college premises.
- Books of Swami Vivekananda, Spiritual & Motivational are handed over to Ist year Students in the beginning of the Session.
- Gajanan Maharaj Pragat Din is celebrated every year in college premises with (Stortra pathan) followed by 'Mahaprasad'.

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words
HR Handbook (Revised)	25/09/2017	Following
R&D Policy Handbook	10/08/2018	In Process

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-------to------	Number of participants
Business Ethics and Human Values	05/02/2018 to 06/02/2018	78

7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)

Energy conservation
- Each block of institute has individual power control panels, which help in separate control of energy consumption.
- Energy conserving lights like CFL, LED lights are used in the Institute campus.
- Consciousness through awareness program to save energy in classrooms and laboratories when not in use.

Use of renewable energy Water harvesting
- College has developed lake inside campus from collection of rainwater, by implementing this rise in the water level is observed nearby the campus.
- Artificial pond with 9 Bores is created for rain water harvesting to increase the ground water level and should benefit the nearby localities and positive results are seen.

Efforts for Carbon neutrality Plantation
- Tree plantation-The different types of trees are planted within the campus of the Institute.
- Students are motivated to use bicycle or Public transport to reduce air pollution.
- Institute promote bicycle rally to create awareness.
- College has designed and manufactured the E-rickshaw for transportation within college campus.

7.2 Best Practices

Describe at least two institutional best practices

Practice I
1. **Title of Practice :** *IIT BOMBAY VIRTUAL LAB -*An Initiative of Ministry of Human Resource Development (MHRD)
2. **The Goal**

Virtual Labs will provide to the students the result of an experiment by one of the following methods (or possibly a combination). Modeling the physical phenomenon by a set of equations and carrying out simulations to yield the result of the particular experiment. This can, at-the-best, provide an approximate version of the 'real-world' experiment. Providing measured data for virtual lab experiments corresponding to the data previously obtained by measurements on an actual system. Remotely triggering an experiment in an actual lab and providing the student the result of the experiment through the computer interface. This would entail carrying out the actual lab experiment remotely.

3. **The Context:**
- To provide remote-access to labs in various disciplines of Science & Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars.
- To enthuse students to conduct experiments by the arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.
- To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self evaluation.
- To share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distances.

4. **The Practice:**

Virtual labs are conducted basically in the form of workshops in two ways:
- In house workshop- conducted for the faculty and students of our own institute.
- Out reached workshop- conducted for the faculty and students of other institutions.
- To conduct such workshops we need to schedule it on IITB web portal: www.vlabs.iiitb.ac.in.

5. **Evidence of success:**
- Few of the evidence of success are quoted as example as follows.
- Successfully organized various workshops of virtual lab tutorials for the students as well as faculties.

- Successfully organized the outreach virtual lab workshop for the P. R. Patil college of Engineering and Tech., Amravati.

6 Problems encountered & Resources required

The Problems encountered are as follows:

- Some of the Laboratories require separate registration for each of the experiment.
- Some of the simulators are under development so students face the problem while performing the experiments.

Practice II

1. Title of Practice I: *Free books distribution for enhancing ethical values in students.*

2. The Goal : In today's world the ethical values are becoming more and more negligible and people rather students are becoming practical. They are loosing interest in the ethical values. To adapt this feature into the student's personality the practice of giving the books free of cost to the students so that at least they can read and acquire these values.

3. The Context:

It is seen that student's are becoming practical and very few of them carries the ethical values. So this practice will ultimately develop the morality in the students and will try to change the thinking of the students who are literally unaware of the consequences they are going to face in the real world. As they leave in the reality and with any failure they easily gets disturb and then looses the confidence in themselves.

4. The Practice:

In this practice actually the books are issued to the department and practice is followed at the department level by distributing such types of books to the students who are toppers in their respective branches. By doing so no particular department will have to keep track of all this at department will maintain the record of every year books distribution and they can even easily find the toppers in their particular department.

5. Evidence of success:

Few of the evidence of success are quoted as example as follows.

- More and more students are attracting towards this and they want such types of books.
- When the prayer starts in the morning they all stand up for the prayer without any caste or religious discriminations.
- They started helping each other in their failures. Also help them in their studies.

6. Problems encountered & Resources required

The Problems encountered was not as such only for receiving such types of books from the resources. We require the resources from where the books can be received easily. We search for such resources and get the variety of books.

Upload details of two best practices successfully implemented by the Institution as per NAAC format in your institution website, provide the link

http://www.prpcem.org/Virtual -lab.aspx?pg=vittual

http://www.prpcem.org/best-practices.aspx?pg=best

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust (Provide the weblink of the institution in not more than 500 words)

International Study Tour for Students:

Every year International Study tour is organized free of cost for the toppers of all branches of Engineering and Management under the banner "*Nurturing Talent with Global Vision*". The objective of study tour is unique amongst all engineering colleges in Vidharbha region of Maharashtra. The objectives are-

- To aid students in acquiring basic knowledge of functioning of the industry.
- Experimental learning and offer both group and self-directed activities that enable learners to explore various industries cultures, practices and people internationally.
- To provide students the global exposure.

From year 2012 to 2017 around 390 students were visited to Dubai, Malaysia, HongKong, Singapore. In year 2018, around 112 students were visited Malaysia. Students visited Mettal Cop., Malaysia University, Petronas Twin Tower, KL City Tower etc. Students learned latest technology and also developed state of art projects in the Institution.

Website: **http://www.prpcem.org/istour.aspx?pg=tour**

Training & Placement:
In Academic Session 2017-18, T&P Deptt., successfully placed 413 students from all branches of Engineering and Management. Students are placed in NeoSoft, Interns Solutions, Amazon, Triveni Turbine, Alacriti, EPIC research, Sama Technologies, Collabra, HFFC and many more international companies.
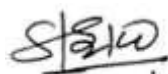
Student Achivement:
Passout Students of Computer Science & Engg., & Civil Engg., have owned 5 and 3 Gold Medals sponsored by S.G.B. Amravati University during convocation ceremony this year.

Website: **http://www.prpcem.org/placement**

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8. Future Plans of action for next academic year (500 words)

- Promote entrepreneurship skill development amongst students
- Improve student placement in core sectors.
- Consultancy to be encouraged in the Labs. Several testing facility in the labs be created and promoted for revenue generation.
- Faculties should be motivated to publish the research articles in high impact factor journals
- Each department should organize Conference /workshops / FDP in every academic year
- More number of students should be encouraged for inplant training, internship program and also motivated to do industry based projects.
- Effective Mentoring system to be implemented. Student-mentor program to be initiated
- Students, alumni and faculties should be motivated to start-up
- Promote outcome based education in all departments based on stakeholder's feedback.
- More external Academic Audits to strengthen departments and Institute.
- More avenues shall be made available for Industrial training after 2nd/3rd year students.
- Enrich students with value based education and programmes.
- Participate in local/village community problems and technology transfer.
- "Gram Dattak Yojana" should be planned and develop with technology
- Professors/Emeritus and Guest faculties shall be appointed in the department

Dr. S. B. Warkad

_____

Signature of the Coordinator, IQAC

Dr. Mrs. S. D. Wakde

_____

Signature of the Chairperson, IQAC

***

For Communication with NAAC

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