

SELF STUDY REPORT

For

Institutional Assessment & Accreditation

Submitted To

National Assessment and Accreditation Council (NAAC)



Vidarbha Youth Welfare Society's

Prof. Ram Meghe Institute of Technology & Research
(Formerly College of Engineering, Badnera)

Anjangaon Bari Road, Badnera – Amravati 444 701 (M.S.)

Phone No. : (0721) 2681246 ; Fax No. : (0721) 2681337

E-Mail: principal@mitra.ac.in ; Website: www.mitra.ac.in



PREFACE

The Vidarbha Youth Welfare Society's Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati, (Formerly College of Engineering, Badnera) was established under the Chairmanship of Late Prof. Ram Meghe, (Former Cabinet Education Minister, Maharashtra State) in 1983 for education in the field of Engineering & Technology. The Vidarbha Youth Welfare Society (VYWS), Amravati was established in July 1965, with a dedicated view and motto of 'Education for All'. Due to tireless efforts of the Founder Chairman, Late Prof. Ram Meghe, the Institute has earned a status of a leading educational center in the state of Maharashtra; dedicated to the cause of education to the masses. Today, while the VYWS has recently celebrated its golden jubilee, it manages a plethora of around 43 institutions in Amravati and Wardha districts which include two engineering colleges, a dental college, pharmacy college, polytechnic, many arts, science and commerce colleges and schools. To satisfy the need of rural population of getting quality education at affordable cost, the society is managing 15 High Schools & 01 Ashram Shala in the rural area and also running the hostels for backward class students.

Prof. Ram Meghe Institute of Technology & Research is approved by All India Council for Technical Education, New Delhi; Director of Technical Education, Mumbai, and affiliated to the Sant Gadge Baba Amravati University, Amravati. The Institute is continuously striving towards achieving its goal of imparting skill oriented value based quality education to the students. Though the Institute has to operate within a regulatory framework and constraints, it has shown its growth over the last three decades on academic, research and social fronts. The UG courses run by the Institute have been accredited **THREE times** by NBA in 2004, 2008 and 2014. Government of Maharashtra has awarded "A" Grade to the Institute. The Institute is a recipient of ISTE Bharatiya Vidya Bhavan National Award – 2015 for "Best Overall Performance".

The Institute provides UG & PG Engineering education in various streams. The Institute was the first unaided engineering college to start AICTE approved PG courses in various streams. It also provides PG education in Management and Computer Applications. All the departments have been recognized for carrying out research work by the university. The departments have been approved by various Government & Semi-Government agencies for material & equipment testing and certification. The professionally planned campus bedecked with beautiful gardens and trees, sprawls in 13 acres of land in a serene pollution free location away from hustle and bustle of the city, yet excellently connected to it.

The young, dynamic & forward looking management of PRMIT&R is carrying forward the pioneering legacy of the visionary founders, who dare to dream and strived hard to achieve their seemingly impossible goals. The management team comprises of the stalwarts from medical, academic, legal and business fraternity. The entire team has an indomitable spirit to nurture and educate potential professionals and bring laurels to the Institute.

We take the privilege of submitting this SSR to the NAAC for further processing. This document has been prepared with extreme care and realistic perspective after persistent hard work of a reasonable long length of time. It has been tried to provide accurate figures and precise facts to the extent possible. The NAAC Steering Committee acknowledges with thanks all the departments and sections of the Institute for their cooperation in providing relevant data and other valuable information as and when requires without which it was impossible to complete this self study report.

Date : 17/12/2016
Place : Amravati

Dr. N. W. Kale
Principal
PRMIT & R, Badnera

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ABBREVIATIONS

AICTE	All India Council of Technical Education
AQAR	Annual Quality Assurance Report
ARA	Admissions Regulating Authority
ARC	Application Receipt Center
ASTM	American Society for Testing and Materials
BE	Bachelor of Engineering
BOE	Board of Examination
BOS	Board of Studies
CAD/CAM	Computer Aided Design and Computer Aided Manufacturing
CAP	Centralised Admission Process
CAT	Common Admission Test
CAY	Current Academic Year
CBSE	Central Board of Secondary Education
CDEEP	Center for Distance Engineering Education Programme
CET	Common Entrance Test
CII	Confederation of Indian Industry
CR	Class Room
CRT	Cathode Ray Tube
CSI	Computer Society of India
DAAC	Departmental Academic Assessment Committee
DH	Drawing Hall
DTE	Directorate of Technical Education
EBC	Economically Backward Class
EDC	Entrepreneurship Development Cell
E & T	Engineering & Technology
ERP	Enterprise Resource Planning
FDP	Faculty Development Program
FICCI	Federation of Indian Chambers of Commerce & Industry
FOSS	Free and Open Source Software
GATE	Graduate Aptitude Test for Engineers
GOVT	Government
GRE	Graduate Record Examinations
HOD	Head of Department
HR	Human Resources
IAAC	Institute Academic Advisory Committee
ICT	Information and Communication Technology
ID	Identity Document
IE(I)	Institution of Engineers (India)
IETE	Institution of Electronics and Telecommunication Engineers
IGTR	Indo German Tool Room
IIIC	Industry Institute Interaction Cell
IIT	Indian Institute of Technology
IPR	Intellectual Property Right

IQAC	Internal Quality Assurance Cell
ISTE	Indian Society for Technical Education
JEE	Joint Entrance Examination
KW PV	Kilo Watt Photo Voltaic
LAB	Laboratory
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LMC	Local Management Committee
MBA	Master of Business Administration
MCA	Master of Computer Applications
ME	Master of Engineering
MHRD	Ministry of Human Resource Development
MNC	Multi National Company
MODROBS	Modernization and Removal of Obsolescence
MoU	Memorandum of Understanding
NA	Not Applicable
NAAC	National Assessment and Accreditation Council
NBA	National Board of Accreditation
NIT	National Institute of Technology
NMEICT	National Mission on Education through ICT
NPTEL	National Programme on Technology Enhanced Learning
NSS	National Social Service
PA System	Public Address System
PG	Post Graduate
PPT	Power Point Presentation
PRMITR	Prof. Ram Meghe Institute of Technology & Research
PRMIT&R	Prof. Ram Meghe Institute of Technology & Research
QIP	Quality Improvement Program
R&D	Research & Development
RP Cell	Research Promotion Cell
RPS	Research Promotion Scheme
SGBAU	Sant Gadge Baba Amravati University
SH	Seminar Hall
STTP	Short Term Training Program
SWOC	Strengths, Weaknesses, Opportunities, Challenges
TFWS	Tuition Fee Weaver Scheme
TR	Tutorial Room
UG	Under Graduate
UGC	University Grants Commission
VYWS	Vidarbha Youth Welfare Society
WS	Workshop

EXECUTIVE SUMMARY

Prof. Ram Meghe Institute of Technology & Research is one of the premier Institutions offering quality education in Engineering and Technology in the State of Maharashtra. The Institute has a splendid past of 33 years and has always realized the need and value of acquiring accreditation from authorized bodies. The Institute has groomed itself over the years and is ready for assessment by self and external authorities. Today, under the Chairmanship of Dr. Nitin Dhande, Vidarbha Youth Welfare Society is managing several institutions of higher education in Vidarbha region of Maharashtra State.

The Institute has prepared the Self Study Report for cycle-I of accreditation by NAAC.

Curricular Aspects

The Institute offers B.E. Degree courses in five disciplines, namely, Civil Engineering, Computer Science & Engineering, Electronics & Telecommunications Engineering, Mechanical Engineering and Information Technology. The Institute also offers M.E. Full Time Degree courses in six specializations, namely, Electronics and Telecommunications Engineering, Computer Science and Engineering, Mechanical Engineering (CAD/CAM), Mechanical Engineering (Thermal Engineering), Civil Engineering (Structural Engineering) and Information Technology. Looking towards the demand of working professionals, the Institute also offers Part Time M.E. courses in five specializations, namely, Computer Science and Engineering, Digital Electronics, Environmental Engineering, Information Technology, and Production Technology & Management. Moreover, the Institute offers PG programs in Management Studies (MBA) and Computer Applications (MCA).

The Institute being affiliated to Sant Gadge Baba Amravati University adapts to the syllabi prescribed by the University. However, the Institute devises innovative and creative methods for the delivery of the curricula. Internalizing the needs of the primary stakeholders – the students – and keeping in sight the expectations of other stake holders, teachers practice different techniques to achieve the set outcomes for each course and the overall attainment of the outcomes of each program. Faculty is encouraged to attend the faculty development programs to boost their knowledge and teaching efficacy. The identified gaps in curricula are bridged by value added courses and imparting the content beyond prescribed syllabus. The contents of the value added courses are designed in consultation with academicians and experienced persons from industries. Faculty, who are members of the Boards of Studies utilize their experience and expertise in suggesting valuable modifications in the University syllabi, in the interests of the students and the prospective employers.

Teaching – Learning and Evaluation

The academic calendar is prepared well before commencement of the sessions every year by the Institute within the framework of a schedule set by the affiliating University. The academic calendar comprises details about the conduct of internal assessment processes for theory and lab courses and co-curricular activities. Every department has its own envisaged Vision and Mission Statements which are tuned to align with that of the Institute. The teaching methods are planned and executed to achieve the course and program outcomes, as the Institute believes in outcome based education system prescribed by NBA. The faculty members use all teaching pedagogy to ensure the best content delivery; especially the thrust is given over Bloom’s Taxonomy. WIPRO’s “Mission 10X” has a great contribution in enhancing the teaching skills among the faculty members. The evaluation processes are made very transparent and the internal marks obtained by the students are displayed on the department notice boards. Adhering to the dates specified by the University, the internal assessment marks are submitted to the University. SGBAU has adopted the online evaluation system for the evaluation of theory papers and Institute follows the same.

Research, Consultancy and Extension

The Management and Institute always strive to spread awareness about the research amongst academicians & students, to deal with the local as well as national problems of social value and in order to make the human life better. The Institute seeks to make faculty and students think about research in a more positive way. The Institute inspires and motivates researchers to conduct research in Science, Engineering & Technology for the sustainable development. The Institute has more than 25 research guides and 39 doctorate faculty. Laboratories of all the engineering departments are recognized as ‘Research Laboratories’ by SGBAU. The Institute has a separate Research Promotion Cell and IPR Cell. The Institute has received some grants from AICTE under RPS and MODROBS schemes for the research and development purpose.

The Institute has formulated a consultancy policy and made available to all faculty members. Our Civil Engineering Department has developed a couple of models of low cost houses and has provided consultancy in the fields of Rain Water Harvesting, Underground Drainage System and retrofitting, etc., and generated substantial revenue over the years. Moreover, the Institute is sharing knowledge and its technical infrastructure with industries, Govt. organizations and other educational institutions.

The Institute emphasizes on community services to underprivileged and socially disadvantaged students and people with an eye on rural masses. This has been an important component of VYWS’s and Institute’s values of imparting education. Fairly good amount of efforts are pursued to fulfill its social responsibilities to the populous nearby villages through a platform of NSS and local student associations.

Infrastructure and Learning Resources

PRMIT&R is one of those very few institutes in India which have been accredited Three times by NBA. The Institute has adequate infrastructure available as per norms of AICTE, State Govt. and University required for the quality teaching-learning activity. The campus is sprawled over 13 acres of land in a serene pollution free location away from the hustle and bustle of the city

yet excellently connected to it. The entire campus provides an ideal ambience for education. All the departments have independent buildings/wings and are provided with comprehensive teaching-learning base, including basic facilities and amenities. The laboratories and workshops are well equipped and updated. Every department has independent computer laboratory with adequate computing facility. The Institute also has a computer centre as the central computing facility. Every department has an independent seminar hall equipped with LCD projector and PA system. The Central Library is common for all with more than seventy five thousand books. A language laboratory is available to enhance the communication skills of the students. The class rooms are equipped with LCD projectors and PA systems. The entire campus is wi-fi enabled with broadband internet connectivity.

Student Support and Progression

The Institute continuously strives for providing excellent mechanism in support and progression of students in holistic manner. The Institute provides all welfare measures such as scholarships, freeships and student safety insurance scheme to ensure a financially trouble free environment. The Institute also offers career counseling, soft skills training, and entrepreneurial skills to enhance the employability of the students. Training and Placement department puts lot of effort in informing the students about potential opportunities, arranging trainings and coordinating placement activities with the visiting companies. The Institute has formed grievance redressal, Anti ragging and Women's grievance committees in support of students for addressing the concerned issues. The students are encouraged to take part in several responsible administrative positions which not only improves their leadership skills but also helps them to achieve academic excellence. Participation in several events and activities, NSS, blood donation camps, etc. instills social responsibility amongst the students.

Over the years, PRMIT&R has been maintaining its second position for academic results, among 19 self financed engineering colleges under the SGBAU. The Institute has an excellent placement record for B.E. and management students.

Governance, Leadership and Management

There is a well defined governance mechanism that ensures the attainment of expectations. Various committees like local managing committee, academic council, college council, central coordination committee, purchase committee, etc., have been formed in order to inculcate transparency in the decision making process and effective governance. The functionalities of these committees are well defined and the committees are headed by key persons with active participation of committee members.

The budgetary provisions, financial support and resources planning fulfill the infrastructural needs that help to steer the organization towards excellence. Institute always regards the quality in engineering education as a significant and long-term component of its activity. The institutional support is reflected in the constructive leadership, adequate policies and mechanisms for attracting, appointing, retaining and rewarding well qualified faculty and staff. Administration takes care of the key attributes, i.e., Budgetary provision, Financial support, Infrastructure

development, Resource planning, Manpower planning and development for smooth operation of the Institute.

Innovations and Best Practices

The academia and administrative bodies of the Institute are quite proactive and vibrant in devising innovative and sustainable best practices in teaching-learning and evaluation, essential to achieve the academic excellence. Adoption of e-governance, promotion of R&D, IPR & EDC, collaborations with IITs/NITs for faculty development, and tie-ups with leading industries for student's placement and training are some of the efforts made towards accomplishing innovations and best practices at the Institute.

SWOC ANALYSIS OF THE INSTITUTE

STRENGTHS

- ❖ Premier un-aided Engineering Institute in Central India
- ❖ Young, Progressive and Dynamic management
- ❖ Various UG Engineering Courses Accredited THREE times by NBA
- ❖ "A" Grade rating by Govt. of Maharashtra
- ❖ Well qualified and dedicated faculty with 39 Ph.Ds. and 50 over pursuing
- ❖ Excellent faculty retention with minimum attrition rate
- ❖ Fully equipped and state of the art laboratories with two industry supported labs & one lab supported by IIT, Mumbai
- ❖ Excellent infrastructure and conducive ambiance for academics
- ❖ Recognized Research Center in Civil Engg., Electronics & Telecom. Engg., Computer Science & Engg., Information Technology, & Mechanical Engineering.
- ❖ Enriched, Resourceful and Digitalized Library
- ❖ Strong Industry-Institute-Interaction
- ❖ Permanent affiliation by SGBAU
- ❖ Faculty, Staff and students well protected with several welfare schemes
- ❖ Good support by Alumni who are occupying higher positions in various organizations across the globe
- ❖ Professional Society Chapters/Activity Clubs in every department
- ❖ Availability of well equipped dispensary with regular doctor to address health related issues of 4000 students on-campus.
- ❖ Consistently good results with large number of university rankers
- ❖ Strong placement with the distinction of "Only Institute in the region where companies like TCS, KPIT, Capgemini, Bosch, Volkswagen regularly visit for recruitment.

WEAKNESSES

- ❖ Geographical disadvantage as Institute located in industrially backward region
- ❖ Non-residential premises
- ❖ Students from rural background weaker in communication skills
- ❖ Comparatively lesser inclination of students towards higher studies after graduation
- ❖ Low industrial consultancy in the branches other than Civil Engineering

OPPORTUNITIES

- ❖ Rapidly growing Indian Economy
- ❖ Nationwide Student Base
- ❖ Scope for Tribal, Rural & Agro based projects
- ❖ Scope for consultancy in urban development
- ❖ Scope for Community Services
- ❖ Entrepreneurship Development
- ❖ Scope for promotion of start-ups under the Digital India and Make in India campaign

CHALLENGES

- ❖ To enhance the employability of the students
- ❖ To sustain fluctuations in varying industry demands for engineering graduates
- ❖ Increased trend in migration of student population to metros
- ❖ To improve industrial consultancy and funded research projects
- ❖ To incline the students towards entrepreneurship rather than jobs

SELF-STUDY REPORT

1. Profile of the Affiliated / Constituent College

1. Name of Address of the College:

Name:	Prof. Ram Meghe Institute of Technology & Research,				
Address:	Anjangaon Bari Road, BADNERA				
City:	Amravati	PIN:	444701	State:	Maharashtra
Website:	www.mitra.ac.in				

2. For Communication:

Designation	Name	Telephone with STD code		Mobile	Fax	Email
		O:	R:			
Principal	Dr. N.W. Kale	O:	07212681246	9422917672	07212681337	principal@mitra.ac.in
		R:	07212673434			nwkale@gmail.com
Vice Principal		O:				
		R:				
Steering Committee Co-ordinator	Dr. D.S. Ingole	O:	07212681246	9881100789	07212681337	dsingole@rediffmail.com
		R:				

3. Status of the Institution:

Affiliated College

✓

Constituent College

Any other (Specify)

4. Type of Institution:

a. By Gender

i. For Men

ii. For Women

iii. Co-education

b. By Shift

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

5. It is a recognized minority institution?

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

If yes, specify the minority status (Religious / Linguistic / any other) and provide documentary evidence:

6. Sources of funding:

- | | |
|----------------|-------------------------------------|
| Government | <input type="checkbox"/> |
| Grant-in-aid | <input type="checkbox"/> |
| Self-financing | <input checked="" type="checkbox"/> |
| Any other | <input type="checkbox"/> |

7. a. Date of establishment of the college : 05/07/1983

b. University to which the college is affiliated / or which governs the college

(If it is a constituent college)

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2(f)	24-06-2010	F.No. 8-74/2010 (CPP-I/C)
ii. 12 (B)	24-06-2010	F.No. 8-74/2010 (CPP-I/C)

(Please refer [ANNEXURE - I](#) for Copy of Certificate of recognition u/s 2(f) and 12(B) of the UGC Act 1956)

d. Details of recognition / approval by statutory / regulatory bodies other than UGC :

The Institute is approved by statutory body, AICTE.

Under Section / Clause	Recognition / Approval details Institution / Department Program	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i. F.No. Western/ 1-2809602063/ 2016/EOA	MECHANICAL ENGINEERING	05/04/2016	One Year	Every year AICTE gives Extension of Approval for one year.
	ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING			
	CIVIL ENGINEERING			
	COMPUTER SCIENCE AND ENGINEERING			
	INFORMATION TECHNOLOGY			
	MASTERS IN BUSINESS ADMINISTRATION			
	MASTERS IN COMPUTER APPLICATIONS			

(Please refer [ANNEXURE – II](#) for Extension of Approval Letter from AICTE, 2015-16 and 2016-17)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes No

If yes, has the College applied for availing the autonomous status?

Yes No

9. Is the college recognized?

a. by UGC as a College with Potential for Excellence (CPE)?

Yes No

If yes, date of recognition: (dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes No

If yes, Name of the agency : and

Date of recognition :(dd/mm/yyyy)

10. Location of the campus and area in sq. mts:

Location	Urban
Campus Area in sq. mts.	13.24 Acres, (53,579.378 sq. mts.)
Built up area in sq. mts.	24,605 sq. mts.

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

• Auditorium/seminar complex with infrastructural facilities	<input checked="" type="checkbox"/>
• Sports facilities	
○ Play ground	<input checked="" type="checkbox"/>
○ Swimming pool	<input type="checkbox"/>
○ Gymnasium	<input type="checkbox"/>
• Hostel	
○ Boys' hostel	<input type="checkbox"/>
i. Number of hostels	<input type="checkbox"/>
ii. Number of inmates	<input type="checkbox"/>
iii. Facilities (mention available facilities)	<input type="checkbox"/>

○ Girls' hostel	X
i. Number of hostels	X
ii. Number of inmates	X
iii. Facilities (mention available facilities)	X
● Working women's hostel	X
i. Number of inmates	X
ii. Facilities (mention available facilities)	X
● Residential facilities for teaching and non-teaching staff (give numbers available - cadre wise)	X
● Cafeteria -	✓
● Health Centre -	✓

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance...

Health centre staff -

Qualified doctor Full time Part-time

Qualified Nurse Full time Part-time

▪ Facilities like banking, post office, book shops	✓
▪ Transport facilities to cater to the needs of students and staff	✓
▪ Animal house	X
▪ Biological waste disposal	✓
▪ Generator or other facility for management / regulation of electricity and voltage	✓
▪ Solid waste management facility	✓
▪ Waste water management	✓
▪ Water harvesting	✓

**12. Details of the programs offered by the college
(Give data for current academic year, 2015-16)**

Sl. No.	Program Level	Name of the Program / Course	Duration	Entry Qualification	Medium of instruction	Sanctioned / approved Student strength	No. of students admitted
1	Under Graduate	Mechanical Engineering	4 Years	HSSC	English	180	178
2		Electronics and Telecommunications Engineering	4 Years	HSSC	English	180	152
3		Civil Engineering	4 Years	HSSC	English	120	117
		Civil Engineering (UG 2 nd Yr Direct) (Lateral Entry)	3 Years	Diploma	English	60	60
4		Computer Science and Engineering	4 Years	HSSC	English	180	180
5		Information Technology	4 Years	HSSC	English	120	79
6	Post-Graduate (Master of Engg)	CAD CAM (Full-time)	2 Years	Graduate in E & T	English	18	11
7		Thermal Engineering (Full-time)	2 Years	Graduate in E & T	English	24	8
8		Electronics and Telecommunications Engineering (Full-time)	2 Years	Graduate in E & T	English	24	18
9		Structural Engineering (Full-time)	2 Years	Graduate in E & T	English	18	8
10		Computer Science and Engineering (Full-time)	2 Years	Graduate in E & T	English	24	19

11		Information Technology (Full-time)	2 Years	Graduate in E & T	English	18	0
12		Production Technology and Management (Part-time)	3 Years	Graduate in E & T	English	18	4
13		Digital Electronics (Part-time)	3 Years	Graduate in E & T	English	20	4
14		Environmental Engineering (Part-time)	3 Years	Graduate in E & T	English	07	4
15		Computer Science and Engineering (Part-time)	3 Years	Graduate in E & T	English	18	4
16		Information Technology (Part-time)	3 Years	Graduate in E & T	English	24	0
17	Post Graduate	Masters in Business Administration	2 Years	Any Graduate	English	120	73
18	Post Graduate	Masters in Computer Applications	3 Years	Science & Engg Graduate	English	60	27

13. Does the college offer self-finance Programs?

Yes No

If yes, how many?

14. New programs introduced in the college during the last five years if any?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Number	4
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The details of programs introduced in the college during last five years :

Sr.No.	Name of Program	Level	Intake	Year of Start
1	M.E. Computer Science and Engineering (Full-time)	PG	24	2012
2	M.E. Information Technology (Part-time)	PG	24	2012
3	M.E. Electronics and Telecommunications Engineering (Full-time)	PG	24	2013
4	M.E. Thermal Engineering (Full-time)	PG	24	2013

15. **List the departments:** (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments	UG	PG	Doctoral Research
Engineering & Technology	1. Department of Mechanical Engineering	Available	Available	Available
	2. Department of Electronics and Telecommunications Engg	Available	Available	Available
	3. Department of Civil Engg	Available	Available	Available
	4. Department of Computer Science and Engg	Available	Available	Available
	5. Department of Information Technology	Available	Available	Available
Management Studies	1. Department of Management Studies	--	Available	--
MCA	1. Department of Masters in Computer Applications	--	Available	--

16. Number of Programmes offered under

- a. Annual system
- b. Semester system
- c. Trimester system

17. Number of Programmes with

- a. Choice Based Credit System
- b. Inter / Multidisciplinary Approach
- c. Any other (specify and provide details)

(Note : Credit Grade System of evaluation is adapted by SGBAU in the year 2010-11)

18. Does the college offer UG and / or PG programmes in Teacher Education?

Yes No

If yes,

- a. Year of Introduction of the programme (s)(dd/mm/yyyy)
and number of batches that completed the programme
- b. NCTE recognition details (if applicable)
Notification No.:
Date:(dd / mm/ yyyy)
Validity:
- c. Is the institution opting for assessment and accreditation of Teacher Education Programmes separately?
Yes No

19. Does the college offer UG or PG programme in Physical Education?

Yes No

If yes,

- a. Year of Introduction of the programme (s)(dd/mm/yyyy)
and number of batches that completed the programme
- b. NCTE recognition details (if applicable)
Notification No.:
Date:(dd / mm/ yyyy)
Validity:

- c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?

Yes No

20. Number of teaching and non-teaching positions in the Institution:

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government <i>Recruited</i>	24	2	27	5	71	31	-	-	-	-
<i>Yet to recruit</i>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Sanctioned by the Management/ society or other authorized bodies <i>Recruited</i>	-	-	-	-	53	49	78	6	74	1
<i>Yet to recruit</i>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

*M - Male * F - Female

21. Qualification of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc. / D.Litt.	-	-	-	-	-	-	-
Ph.D.	18	0	11	1	2	1	33
M.Phil.	0	0	3	1	0	0	4
PG	6	2	13	3	69	30	123
Temporary Teachers							
Ph.D.	0	0	0	0	1	2	3
M.Phil.	0	0	0	0	0	1	1
PG	0	0	0	0	52	46	98
Part-time teachers							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-
						Total Faculty	262

22. Number of Visiting Faculty / Guest Faculty engaged with the College. Nil

23. Furnish the number of the students admitted to the college during the last four Academic Years.

Categories	2015-16		2014-15		2013-14		2012-13	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	348	238	334	234	292	222	262	193
ST	50	22	47	27	42	26	54	22
OBC	1097	780	1061	744	1016	620	985	553
General	630	326	670	352	764	370	844	324
Others (NT,VJ,SBC, SBC-A, ESBC)	306	169	281	162	245	134	229	113
Total Students	3966		3912		3731		3579	

24. Details on students enrollment in the college during the current academic year (2015-16):

Type of students	UG	PG	M.Phil.	Ph.D.	Total
Students from the same state where the college is located	1090	179	0	16	1285
Students from other states of India	03	1	0	0	4
NRI students	0	0	0	0	0
Foreign students	0	0	0	0	0
Total	1093	180	0	0	1289

25. Dropout rate in UG and PG (average of the last two batches)

UG 0.92 %

PG 0.09 %

26. Unit Cost of Education (2015-16)

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

For B.E. and M.E.

(a) including the salary component

Rs. 98,336

(b) excluding the salary component

Rs. 25,266

For M.B.A.

(a) including the salary component

Rs. 71,292

(b) excluding the salary component

Rs. 26,268

For M.C.A.

(a) including the salary component

Rs. 64,851

(b) excluding the salary component

Rs. 18,614

27. Does the college offer any programme/s in distance education mode (DEP)?Yes No

If yes,

a) Is it a registered centre for offering distance education programmes of another University?

Yes No

b) Name of the University which has granted such registration.

NA

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes No

28. Provide Teacher-Student ratio for each of the programme / course offered.

Sr.No.	Name of Programme	Teacher-Student Ratio Required as per AICTE Norms	Teacher-Student Ratio Actually Available
1	Engg. & Technology (UG)	1 : 15	1 : 15
2	Engg. & Technology (PG)	1 : 12	1 : 12
3	MBA	1 : 15	1 : 15
4	MCA	1 : 15	1 : 15

29. Is the college applying for

Accreditation: Cycle 1 Cycle 2 Cycle 3 Cycle 4

Re-Assessment:

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

NOT APPLICABLE

31. Number of working days during the last academic year. (2015-16)

227

32. Number of teaching days during the last academic year (2015-16)

(Teaching days means days on which lectures were engaged excluding the examination days)

188

33. Date of establishment of Internal Quality Assurance Cell (IQAC)

Date of establishment of IQAC : 16/06/2016

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

AQAR (i) (dd/mm/yyyy)

AQAR (ii) (dd/mm/yyyy)

AQAR (iii) (dd/mm/yyyy)

AQAR (iv) (dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory / descriptive information)

Following UG programmes are accredited by NBA, New Delhi :

1] NBA Letter No. NBA/ACCR/267/2004, Dt. 24,03, 2004

Accreditation Outcome / Result : **Three Programs Accredited for 3 Years**

2] NBA Letter No. NBA/ACCR/935/07, Dt. 19,07,2008

Accreditation Outcome / Result : **Four Programs Accredited for 3 Years**

3] NBA Letter No. 28-305-2010-NBA, Dt. 18/08/2015,

Accreditation Outcome / Result : **Three Programs Accredited for 2 Years**

ONE Year Extension in Accreditation period have been granted by NBA for Three Engineering Programs:

(i) Mechanical Engineering

(ii) Electronics & Telecommunications Engineering

(iii) Civil Engineering

- The Institute is recipient of ISTE Bharatiya Vidya Bhavan National Award – 2015 for “Best Overall Performance”.
- Many faculty members individually have received prestigious awards for their outstanding performance in academic and social commitments.

2. Criteria - wise Inputs

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

VISION OF THE INSTITUTE:

To become a pace-setting Centre of excellence believing in three universal values namely Synergy, Trust and Passion, with zeal to serve the Nation in the global scenario

MISSION OF THE INSTITUTE:

To dedicate ourselves to the highest standard of technical education & research in core & emerging engineering disciplines and strive for the overall personality development of students so as to nurture not only quintessential technocrats but also responsible citizens

OBJECTIVES OF THE INSTITUTE:

- To strive for global recognition through academic excellence in Engineering & Technology
- To seek academic autonomy in view of establishment of centre of excellence
- To facilitate industrial & basic research in various fields of Engineering & Technology
- To impart contemporary and state of the art knowledge to the students
- To make students industry ready by way of rigorous interaction with industry
- To enhance the percentage of placement
- To promote students for innovation and entrepreneurship

The Institution's vision, mission and objective policy are communicated to the students, staff and other stake holders by :

- By publishing on the Institute website : www.mitra.ac.in
- By displaying on the Notice Boards at administrative area and prominent locations in academic area, like class rooms, laboratories, seminar hall, staff rooms, corridors, and other prominent locations.
- By printing in the Admission brochures, prospectus, lab manuals, etc.
- By circulating among the students, pre-printed stationary material.
- By awareness during induction and orientation programs, parent meets and meetings

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

- The Institute follows the curriculum prescribed by the affiliating university, Sant Gadge Baba Amravati University (SGBAU).
- The Institute develops action plan for effective implementation of the curriculum prescribed by SGBAU.
- In the beginning of academic year, Academic Dean announces the Academic Calendar in consultation with heads of various departments.
- Time table for the class work is displayed by respective department.
- Seminars, assignments, internal assessments, unit tests as planned in the academic calendar are monitored by HODs.
- Feedback related to timely implementation of academic calendar is undertaken by Dean Academics on regular basis.
- Lesson plans and course files are maintained by each faculty for their respective Subjects and are reviewed by HODs.
- Student-Guardian Scheme is in place for counseling of the students and it helps them to resolve their academic and personal queries.
- Parent meets are conducted every year and the feedback obtained is used as one of the measures for improving teaching-learning process.
- The frequent meetings of HODs with class teachers, teachers and class representatives help in taking suitable measures for the effective implementation of academic process.
- The syllabus, question papers, notes, NPTEL materials, PPTs, and technical videos are available in departmental library. Students are encouraged to utilise these resources for improving their knowledge.
- Academic monitoring committee is functional at departmental level.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

- BOS of SGBAU plans and coordinates the curriculum related tasks. Being an affiliated institution, PRMITR follows the curriculum prescribed by the SGBAU which is well translated to the students after due planning and preparation by seasoned academicians.

- Institute's contribution in design of curriculum through organizing workshops and faculty participation in workshops at various levels.
- The major syllabus revision takes place once in four years for which SGBAU conducts Syllabus Restructuring Meeting for the major changes in the syllabus. The minor changes in the syllabus are incorporated after approval of the Board of Studies of respective programme.
- Institute provides ample learning materials and other teaching and reference aids like Journals, Magazines, Broadband internet connectivity, software, and LCD projectors, etc. so as to ensure effective delivery of the curriculum by faculty.
- Institute encourages faculty members to participate in national and international seminars, STTPs, FDPs, workshops and training programs.
- Institute has the Faculty Empowerment Strategy for growth and development of the faculty.
- Institute encourages the faculty to pursue higher studies and to take up the research work individually or in collaboration.
- The faculty members are trained on regular basis by Wipro Mission 10X for effective teaching.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

- The management of PRMITR is committed to support for effective implementation of the policies through excellent infrastructure and financial provision.
- Institute relies mainly on the traditionally accepted method of teaching strategy, that is the chalk and talk method. However, creative and innovative methods of teaching such as PPT's, animations, simulations, hands on training, etc. are adopted for effective delivery of the curriculum. Most of the faculty members are trained under "WIPRO's MISSION 10X" teaching skills enhancement programs regularly conducted in the Institute for experienced as well as newly joined faculty members.
- All the departments are provided with ample LCD projectors & public addressed systems for better content delivery, net connectivity as well as sufficient digital content.
- Well planned academic calendar with schedules of academic, evaluation and extra - curricular events is strictly implemented in every semester.
- Detailed course material, lesson plans, class notes, question bank, lab manuals are prepared by the faculty and are made available to the students.
- Slow learners are given special attention for improvement in each subject and the fast learners are further motivated to explore their knowledge.
- Regular faculty meetings and class teachers meetings are conducted by Principal and HODs to review the teaching learning process, academic progress of the students, grievances if any, and suitable remedial measures are taken as and when required.

- In addition to the regular subject classes, the Institute also organizes special lectures by inviting experts from various fields to share their knowledge and experiences with the students.
- Institute promotes the use of ICT for effective content delivery.
- Further enrichment of the curriculum is sought by identifying the content beyond syllabus. Inputs based on this are imparted to the students in theory/practical classes or during field visits.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?

- PRMITR has a good network of industries that play an important role in the growth of Institute. The Institute plans several activities in collaboration with industries, research bodies and parent university to execute the mission of the Institute.
- Many of the faculty members have good association with the university in the form of members of Board of Studies, members of Faculty of Engineering & Technology, Board of Examination, Local Enquiry Committees of SGBAU, and many other committees. The Dean of faculty of Engineering and Technology of SGBA University is from PRMITR.
- Many of the faculty members have good association with the professional organizations, like IE (I), ISTE, IETE, CSI in the form of office bearers.
- The Institute has signed up MoU's with several industries, like TCS, Wipro, IGTR, Scientech Pvt Ltd, Jadhao Gears Pvt. Ltd., and many others.
- The faculty empowerment programme is conducted by Wipro Technologies to educate the faculty members of the Institute about innovative teaching methodologies under the program "Wipro Mission10-X".

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

- Dr. G. R. Bamnote, Professor of Computer Science & Engineering department is the Dean of Engineering and Technology of SGBAU.
- The faculty members of PRMIT&R contribute towards the development of curriculum of SGBAU. The faculty members from almost all departments have representation in the BOS and BOE committees of SGBAU.
- Some of the faculty members are also the members of Academic Council and Faculty of Engineering & Technology of SGBAU.

Following faculty members of the Institute have been involved in SGBAU work:

Table 1.1.6 : List of Faculty Members Representing SGBAU

Sr.No.	Name of Faculty Member	Name of Dept	Name of Board of Studies of SGBAU
1	Dr. G. R. Bamnote	Comput Science & Engg.	Dean, Faculty of Engg. & Technology
2	Dr. D. S. Ingole	Mech Engg	Member, BOS, Mechanical Engineering
3	Dr. S. V. Bansod	Mech Engg	Member, BOS Mechanical Engineering
4	Dr. A. U. Awate	Mech Engg	Member, BOS Mechanical Engineering
5	Dr. T. R. Deshmukh	Mech Engg	Chairman, BOS Production Engineering
6	Dr. C. R. Patil	Mech Engg	Member, BOS Production Engineering
7	Dr. D. T. Ingole	Electronics & Tele. Engg	Member, BOS Electrical Engineering
8	Dr. N. W. Ingole	Civil Engg	Member, BOS Civil Engineering
9	Dr. P. S. Pajgade	Civil Engg	Member, BOS Civil Engineering
10	Dr. A. S. Alvi	Information Technology	Member, BOS Information Technology
11	Dr. P.D. Sawalakhe	Chemistry	Member, BOS, Chemistry
12	Dr. P. V. Ingole	Electronics & Tele. Engg	Member, BOS, Electronics & Tele. Engg

- The feedback from students, parents, alumni and industry are collected and consolidated. The suggestions of stakeholders are communicated to the Departmental Academic Advisory Committee of the respective department. The recommendations are further communicated to the Institute Academic Advisory Committee (IAAC). IAAC communicates through Principal to the University to move the recommendations before various BOS for curriculum restructuring.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

- No. As the Institute is affiliated to SGBAU, it follows the scheme and curriculum provided by SGBAU.

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

- At the end of the course, attainment of course outcome is ensured by respective teacher by way of course end survey.
- Dean (Academics) ensures the successful completion of curriculum prescribed by the SGBAU. The monthly academic progress report of syllabus coverage is prepared and maintained by the Institute and regularly monitored by Dean (Academics). The extra classes are also conducted, if required.

- Online feedback mechanism is in place to seek the information about performance of a system. The feedback form is made available online to the students. The students are provided with Login IDs and passwords. Feedback schedule is conveyed to HOD & students. Class teachers or ERP coordinators provide user ID's & password to the students. Student carries out online feedback as per given schedule.
- Feedback is analyzed on the basis of 13 parameters mentioned in feedback form. Students rate their feedback on the scale of 0 to 3 parameters namely : Excellent, Good, Average and Poor.
- Faculty performance is calculated on the basis of parameters namely : punctuality, appearance, personality, communication skill, subject knowledge & preparation, ability to convey the concept, adoption of innovative teaching methodology, response for difficulties of student and the availability of a teacher during working hours.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives, give details of the certificate/diploma/ skill development courses etc., offered by the institution.

- Based on the skill set required to match the requirement of industry, the departments offer various short duration courses. It includes certification programs like, java, c++, CATIA, CAD/CAM in collaboration with the professional organizations.
- Mission statement of the Institute imbibes itself a goal, objectives and commitment towards the overall personality development of the students which fits globally to face challenges. Institute offers several short term programs for the students either exclusively designed or conducted by the department or in collaboration with the professional trainers.
- A separate Training and Placement Department is available which coordinates the training, guidance and placement activities throughout the year for all disciplines. The students are trained on aptitude, logical reasoning, communication, group discussion and HR skills by the expert professionals.
- The Institute has signed collaborations with many well-known professional training providers, like TCS, Indo-German Tool Room, WIPRO, IBM, Scientech Pvt Ltd, Jadhao Gears Pvt. Ltd., and many others.

1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If 'yes', give details.

- The Institution does not offer any dual degree programme.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- **Range of core/elective options offered by the university and those opted by the college**
- **Choice based credit system and range of subjects offered**
- **Courses offered in modular form**
- **Credit transfer and accumulation facility**
- **Lateral and vertical mobility within and across programmes and courses**
- **Enrichment courses**

- The Institute being affiliated to the university, it has a limited scope for institutional academic flexibility. Whereas, the Institute gives freedom to the students to choose professional and free electives, mini/ major projects/ seminars, etc., as per their choices.
- Students are given flexibility in university curriculum to opt free elective subjects from other departments.

- ❖ **Range of Core and Elective options are offered by the University and opted by the Institute**
- In order to incorporate flexibility in syllabus, the core and elective subjects are offered and students have flexibility to make a choice among the electives.
- The free elective subjects are also offered to Third year UG students in which students learn the subjects of other disciplines.
- The curriculum subjects are carefully distributed over the four years (eight semesters) of programme considering their prerequisites, interdependency and logical sequence.
- The curriculum is a good blend of science, basic engineering, mathematics, computing, core professional courses and a dash of humanities, personality development with an emphasis on electives in contemporary areas of the discipline.
- **Core Subjects:** In the UG syllabus, about 60% subjects are the core subjects which are taught through I to VIII semesters. Whereas, in the PG syllabus, about 70% of the total subjects are core subjects prescribed by SGBAU. The students have to study these subjects in the curriculum in stipulated period.
- **Electives:** Nearly 10% of the subjects are offered as Electives from V to VIII semester for UG students and 30% of the subjects are offered as Electives from I to IV semester for PG students by SGBAU. The SGBAU gives a list of elective subjects based upon the industry requirements and to provide an exposure to the advanced technological developments. The students have to choose electives from each group depending on their interest.

- ❖ **Choice Based Credit System and range of subject options**
- NIL

❖ Courses offered in modular form

- There is no course offered in modular form and all the departments strictly follow the curriculum which is defined by the SGBAU.

❖ Credit transfer and accumulation facility

- NIL

❖ Lateral and vertical mobility within and across programmes and courses

- The Institute is affiliated to SGBAU which has flexibility for change of branch in Third semester. To avail this choice, the students have to clear all their subjects of first and second semester. There should not be current back log of any subject. The diploma students are directly admitted to the third semester under the lateral entry admission provision.

Change of Course or Institution after First, Second or Third year:

- (1) The candidate seeking for a change in course after successfully completing the first year of studies are allowed to do so in the same institution subject to the availability of seats and changes are to be carried out based on the marks of First Year or First and Second semesters together. Lists of such changes require to be communicated to the office of the Admissions Regulating Authority (ARA).
- (2) Transfer of candidates (Course or Institution) after one year can be made in following manner :
 - (a) The candidate once admitted in First Year shall not be eligible for transfer to any other institution during the same academic year.
 - (b) The candidate passing the First Year or both first and second semester examinations in full or failed in one of the heads of passing are considered as eligible for transfer of Institution or course.
 - (c) There shall be no transfer of students at any stage in any case from Unaided Institutions to Government or Government Aided Institutions. However, the candidate from Government or Government Aided Institution may seek transfer to Unaided Educational Institution.

❖ Enrichment courses

- All departments conduct seminars, workshops, faculty development programs, technical symposiums which are delivered by the experts to enhance the knowledge of students and faculty.
- The department of Training and Placement identifies the current need of industry and conducts specific courses to bridge the gap between institute and industry.

1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

- All the programmes offered by the Institute are self-financed.
- The following are the lists of programmes offered in the Institute:

Table 1.2.4(a) : Names of programs offered by the Institute (UG PROGRAMS)

S.No.	Name of Department	Program
1.	Mechanical Engineering	B.E. Mechanical Engineering
2.	Electronics and Telecommunications Engineering	B.E. Electronics and Telecommunications Engineering
3.	Civil Engineering	B.E. Civil Engineering
4.	Computer Science and Engineering	B.E. Computer Science and Engineering
5.	Information Technology	B.E. Information Technology

Table 1.2.4(b) : Names of programs offered by the Institute (PG Engg Programs)

S.No.	Name of Department	Program	
		Full Time	Part Time
1.	Mechanical Engineering	M.E. (CAD CAM)	M.E. (Production Technology and Management)
2.		M.E. (Thermal Engineering)	--
3.	Electronics and Telecommunications Engineering	M.E. (Electronics and Telecommunications Engineering)	M.E. (Digital Electronics)
4.	Civil Engineering	M.E. (Structural Engineering)	M.E. (Environmental Engineering)
5.	Computer Science and Engineering	M.E. (Computer Science and Engineering)	M.E. (Computer Science and Engineering)
6.	Information Technology	M.E. (Information Technology)	M.E. (Information Technology)

Table 1.2.4(c): Names of programs offered by the Institute (PG Other Programs)

S.No.	Name of Department	Program
1.	Management Studies	Master of Business Administration (MBA)
1.	Masters in Computer Applications	Masters in Computer Applications (MCA)

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries.

- The Institute offers several short term programs for the students either exclusively designed or conducted by departments or in collaboration with the professional organizations.
- A separate Training and Placement department is available which coordinates the training, guidance and placement activities throughout the year for all disciplines.
- The students are trained on aptitude, logical reasoning, communication, group discussion and HR skills by the expert professionals.
- The Institute has signed collaborations with well-known professional training providers, like : TCS, Indo-German Tool Room, WIPRO, Scientech Pvt Ltd, Jadhao Gears Pvt. Ltd., and many other companies.
- Moreover, the students are deputed for inplant training during vacation period.

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice"? If 'yes', how does the institution take advantage of such provision for the benefit of students?

- The Institute is affiliated to SGBAU which does not have a flexibility of distance mode of education.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

- To supplement the University's curriculum, the Institute encourages and provides regular industry oriented programmes, guest lectures, value added programmes & seminars.
- Periodic industrial visits and tours are arranged for the enrichment of student's practical knowledge.
- Various topics of content beyond syllabus are delivered to bridge the curriculum gaps.
- Students are encouraged to attend the in-plant training or internship offered by various industries during summer and winter vacations.
- In addition, the Institute organizes seminars, value addition programmes, workshops, career guidance, symposium, tech-fests, entrepreneur development programs, etc.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

- To support curriculum provided by SGBAU, the Institute provides additional training and hands on practice required for the dynamic employment market.
- Institute has formed an Industry Institute Interaction Cell (IIIC) to fill up the gap between academia and industry. The cell invites industry persons to deliver expert lectures in seminars, workshops, etc., time to time to update students and faculty members with the current happening of the world.
- Institute is the academic partner of TCS campus recruitment program to enrich its course as per the industry standard.
- Apart from the academic activity, students are encouraged for industrial visits to get practical sense of the education they are acquiring.
- The communication and presentation skills of students are improved through the language lab, workshops, seminars, etc.
- The curriculum itself includes professional courses like, Total Quality Management, Principle of Management, Industrial Management and Costing, Environmental Science and Professional Ethics & Human Values to reform the student into a better professional and good human being.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

- Institute maintains a healthy environment and takes the necessary initiatives for the growth and development of its stakeholders.
- There is equal and fair chance for everybody for representation and participation in any student activity or committee irrespective of age, cast, creed and gender.
- The various committees for maintenance of conducive ambience, peace and harmony among the different class of stakeholders are as follows :
 - Women's Grievance Cell
 - Anti- raging Committee
 - Entrepreneur Development Cell
 - NSS Unit
 - ISTE, IETE, CSI, IEI Student Chapters
 - Environment Protection Cell/ Nature Club
- The university curriculum takes care of addressing these issues through courses like, environmental studies, communication skills, etc.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

- § Moral and ethical values
- § Employable and life skills
- § Better career options
- § Community orientation

Moral and ethical values

- To ensure holistic development and to boost moral and ethical values of students, Ramkrishna Mission, Pune has offered the training on “Value Education”. Over 2500 students participated in the program.
- Institute also encourages students participation in the programmes designed for boosting moral and ethical values among youths like, “YES+”.

Employable and life skills

- TCS is one of the major recruiters of PRMIT&R. The T&P department every year organizes a special training program for students as well as faculty in which aspiring students seek interaction with experienced TCS employee from HR and technical wing. Faculty members from different branches also attend this workshop in order to keep themselves abreast of recent development in their fields and accordingly provide special input while teaching. Emphasis is given to recent topics such as, Cloud Computing, Mobile Computing, Big Data, etc.

Table 1.3.4 : Training Programs Taken During Last Four Years

S.No.	Name of Events & Activities	Date	Audience
2015-16			
1	Campus Recruitment Training Program by Focus Academy for Career Enhancement (FACE), Coimbatore	22nd June to 1st July, 2015	Final Year Students of BE
2	Induction Program (JUNOON), By Square Circle, Jalgaon	2nd Sep to 12th Sep, 2015	First Year students of all branches
3	Journey of Excellence	31 Dec. 2015	All Students
4	Training program for 3 rd year Students	28/12/2015 To 1/1/2016	All students
5	Two Day Workshop on Computer Hardware	3rd & 4th October 2015	Third Year students
6	One Day Workshop “PHP & MySQL”	3rd October 2015 & 4th January 2016	Final Year students
7	One Day Workshop on “Python Programming.”	5th Oct.2015	Final Year students
8	Two Day Workshop On “Android Application Development”	10th October & 11th October 2015	Third Year students
9	Online Mock test for syntel	03 December 2016	CSE,IT,EXTC Students
10	Seed It Talent Hunt Exam	03 November 2016	CSE, EXTC Students
11	Seminar on Higher Studies	03 October 2016	All Students

12	Seminar on Higher Studies By Mr. Aniruddha Tekade	10th March, 2016	Final year students of all branches
13	Two Day Workshop On "Computer Networking"	19th March & 20th March 2016	Third Year students
14	Seed Infotech IT Talent Hunt Final Round	16 March 2016	All Students
15	Value Education –Secret of strength & Effective life Mgt	03 February 2016	Second & Third Yr students
16	online Practice test for FACE	02 February 2016	3rd Year Students
17	AMCAT_Online Test	26 February 2016	All final Year students except CIVIL
18	AMCAT_Online Test	27 February 2016	All 3rd year students except CIVIL
19	AMCAT_Online Test	28 February 2016	All 2nd year students except CIVIL
20	Interview Techniques	13th February 2016	All Students
21	Training program for 2nd year Students	1 st January 2016 to 2 nd January 2016	All students
22	Cocubes _online Test	03 March 2016	final Year students
23	Introduction to Aptitude, By Universal Education, Bangaluru	1 st to 2 nd January 2016	Second Year B.E.
24	Leadership & Confidence Building Workshop , By Mr. Subodh Deshmukh	27th Jan to 1st Feb. 2016	Second Year B.E.
2014-15			
1	Campus Recruitment Training Program by Focus Academy for Career Enhancement for final year students	16/06/2014 to 25 /06/2014	Final Year BE Students
2	Personality Development Workshop by Mr. Will Harris ,USA	22/07/2014	IIIrd Year BE Students
3	One day seminar on "Higher Studies Abroad " Conducted by Southern cross university, Australia for final year students	08-07-2014	Final Year BE Students
4	One Week communication skills & personality development workshop by Mr. Subodh Deshmukh for final year engg. Students	07/08/2014 to 09/08/2014	IIIrd Year BE Students
5	One day counseling session on current trends in IT industry by Mr.Nishad Mankar of TCS for Final year Students	27/08/2014	Final Year BE Students
6	Two days TCS specific training program for final year students	01/10/2014 to 02/10/2014	Final Year BE Students
7	Guest Lecture by Mr. Promod Gujar , CEO- Tech Renait Pune for MCA & BE Students	17/10/2014	Final Year BE & MCA Students
8	Three Days Faculty empowerment workshop by Mission 10x	25/11/2014 to 27/11/2014	Faculties of the institute

9	Internship interviews for final year MCA Students Tanish Infotech	11-11-2014	Final Year MCA Students
10	Internship interviews of Techrenait Pune for MCA final Year Students	20/11/2014	Final Year MCA Students
11	Two days Capgemini specific training program for final year students by Talent Sprint	12/12/2014 To 13/12/2014	Final Year BE Students
12	One days Polaries specific training program for final year students by Talent Sprint	14/1/2015	Final Year BE Students
13	Two days Students Workshop by Wipro's Mission 10X	08/01/2015 To 09/01/2015	IIIrd Year BE Students
14	MOCK Test of TCS for Final year Student	18/02/2015	Final Year BE Students
15	One Day Seminar on Higher Studies in Engineering & Tech by Dr. Jitendra Sanghwal of IIT Madras	17/3/2015	Final Year BE Students
16	C, C++ Training for IInd year IT / CSE students by Talents Sprint	20/3/2015 onwards	IInd Year BE Students
17	PREPARATORY PRE PLACEMENT TALK PROGRAM by Prashant Karandikar of L&T for IIIrd year students	04-07-2015	IIIrd Year BE Students
18	Summer Internship Interviews for MBA Ist Year students	05-07-2015	Ist year MBA Students
2013-14			
1	Campus Recruitment Training Program by Purple Leap for final year students	17/06/2013 to 29/06/2013	Final Year BE Students
2	Two days TCS specific training program by Purple Leap for final year students	21st and 22nd October, 2013	Final Year BE Students
3	Three Days Faculty empowerment workshop by Mission 10x	19/09/2013 to 21/9/2013	Faculties of the institute
2012-13			
1	Campus Recruitment Training Program by Globarena Tech for final year students	18/6/12 to 23/6/2012	Final Year BE Students
2	Campus Recruitment Training Program by Will n Skill for final year students	25/6/2012 to 30/6/2012	Final Year BE Students

- In order to meet exact requirement of the companies and to accustom students for appearing in interviews, a Campus Recruitment Training Program is conducted every year in the month of June. The training is imparted by well known agencies in this field like, Globarena Technologies Pvt. Ltd, Hyderabad, Prime tutorials Nagpur, Rishikul Mumbai. Every year around 350 final year students (all branches) participate in this program. This training has been found immensely beneficial for the students. Manifold increase in the number of students cracking aptitude test was observed.

- T&P department involves industries like TCS, Cognizant, Anglo Eastern Shipping, Indian Army as well as other professional organization for enhancing industry interaction. The experts from industries delivered special lectures intended to make students aware of present industrial scenario and recent trends. As an outcome of this seminar, the general preparedness of students for interviews and overall performance during technical interview was found enhanced.
- In order to give students the feel of corporate environment, a special one-month training program is organized for 2nd and 3rd year students. Various training centers like SAIL Bhilai, Bokaro steel plant, Sciencetech Pune and Indore, Mahindra and Mahindra Nagpur, Laxmi Agni Aurangabad, BSNL Nagpur, Ashok Leyland and many other medium and small industries etc were made available to students. Around 150 students participate in this program every year. Such training resulted in rich, hands-on experience for students belonging to different disciplines.

Better career options

- The institute very effectively renders the information regarding career planning to the students, through its career guidance cell. The career guidance cell of the institute is enrolled with SGB Amravati University career counseling department. The career guidance cell which is a part of Training and placement department conducts self assessment seminar every year for second year students. This helps the students in deciding the gray areas that need improvement. The aptitude of the students is also reflected in this process. With these inputs, the cell continuously helps the students in proper planning of their career.

Following activities are conducted every year by this cell :

- Conducting a self-assessment seminar for students.
- Guidance for choosing proper career.
- Personal counseling for opportunities of higher studies in India and abroad.
- Seminar and Coaching for GATE
- Informative seminar about MBA entrance exams and coaching facilities.
- Seminar on Higher education abroad, by various expert agencies.

Institute also has established the entrepreneur development cell supported by AICTE to promote the entrepreneurial skills required for better career options.

Community Orientation

- Students actively participate in Nature & Wildlife Conversation since last couple of years in every summer through NSS unit.
- Students spare a lot of time for community services and request citizens to participate in the various social abhiyans.
- The NSS unit of PRMIT&R is very active. Around 200 students offer their services to community through NSS.

- One village and one Ashram Shala have been adopted by this group. The Institute has won many awards for blood donation.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

- Institute has a mechanism to obtain feedback from all its stakeholders by conducting the periodic surveys. These surveys in turn give feedback about the level of attainment of the employable qualities among the students. The results of all surveys are compiled and summarized. Further this summary report also serves as a guideline in enriching the curriculum

Table 1.3.5 : Tools used for seeking Feedback from Stakeholders

Stakeholders	Assessment Tools	Frequency
Students	Exit Survey	At the end of last semester
Alumni	Alumni Survey	Every year
Employer	Employer Survey	Every year
Parents	Feedback Form	Every year
Program Faculty	Feedback Form	Every year

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

- Institute has implemented the ERP system for continuous monitoring of academic activities.
- HOD monitors day to day activities of academic process of respective department.
- Institute has a Dean (Academics) to monitor the academic activities.
- Institute maintains academic calendar. Meetings are conducted to evaluate the academic activity.

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

- Board of Studies (BOS) is the authority to design and revise the curriculum periodically. Feedback obtained by all stakeholders regarding the curricular gaps is communicated to University “Board of Studies” through the members who represent respective discipline in the Board.

- Faculty members of PRMITR are actively involved in the designing and development of the curriculum prepared by the university, as most of the BOS members are from the Institute.
- The following faculty members are contributing to the development of curriculum prepared by the SGBAU:

Table 1.4.1 : Representation as Dean & Members of various Board of Studies of SGBAU

Sr.No.	Name of Faculty Member	Name of Board of Studies of SGBAU
1	Dr. G. R. Bamnote	Dean, Faculty of Engg. & Technology
2	Dr. D. S. Ingole	Member, Mechanical Engineering Board
3	Dr. S. V. Bansod	Member, Mechanical Engineering Board
4	Dr. A. U. Awate	Member, Mechanical Engineering Board
5	Dr. T. R. Deshmukh	Chairman, Production Engineering Board
6	Dr. C. R. Patil	Member, Production Engineering Board
7	Dr. D. T. Ingole	Member, Electrical Engineering Board
8	Dr. N. W. Ingole	Member, Civil Engineering Board
9	Dr. P. S. Pajgade	Member, Civil Engineering Board
10	Dr. A. S. Alvi	Member, Information Technology Board

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

- Institute has a formal mechanism to obtain feedback from students and stakeholders which is communicated to the university and also implemented as a part of the teaching and learning process at PRMITR. The following are the feedbacks obtained from the students and stakeholders:
 - **Student Feedback:** The student feedback is obtained at the end of every semester.
 - **Parent's Feedback:** The Parent's feedback is obtained during parent's meet.
 - **Industry Feedback:** As PRMITR has MOU's with various companies, so industry feedback is obtained through email.
 - **Staff feedback:** Staff feedback is obtained at the end of every semester.
 - **Alumni Feedback:** Alumni feedback is obtained online and during alumni function which is regularly conducted by PRMITR every year.
- The summary sheet of survey report is prepared & submitted to the departmental academic advisory committee for any modification in the educational objectives, if required. This summary report is submitted to the Institute Academic Advisory Committee (IAAC). IAAC conveys the recommendations to board of studies of the University for enriching curriculum.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?)

Table 1.4.3 : New courses introduced by the institution during the last four years

Level	S.No	Name of Department	Program	Year of Start
PG: (M.E.)	1	Mechanical Engineering	M.E. (Thermal Engineering) Full Time	2013-14
	2	Electronics and Telecommunications Engineering	M.E. (Electronics and Telecommunications Engineering) Full Time	2013-14
	3	Computer Science and Engineering	M.E. (Computer Science and Engineering) Full Time	2012-13
	4	Information Technology	M.E. (Information Technology) Part Time	2012-13

Any other relevant information regarding curricular aspects which the college would like to include.

- NIL

CRITERION II: TEACHING - LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

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

- Around 90% of the total seats are admitted by Admission Regulatory Authority appointed by State Government.
- Remaining 10% seats are filled at Institute level through merit list prepared on the basis of score in MH-CET.
- The admission procedure is absolutely transparent. A notification regarding First Year Engineering Admissions is published every year by the Director of Technical Education (DTE), Mumbai, Maharashtra in all leading news papers and DTE website. The admission process and related important links are provided on Institute website, www.mitra.ac.in. Every year DTE allocates Application Receipt Center (ARC) to the Institute as an admission facilitation center.
- Admissions to higher classes are carried out at Institute level for the eligible students.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

Centralised Admission Process (CAP)

- All the Aided as well as Unaided Professional Educational Institutes in Maharashtra State admits candidates through the Centralised Admission Process (CAP). All the candidates belonging to various categories are considered for allotment of seats as per their *Inter-Se-Merit*. If the seats remain vacant then such seats are considered for allotment to the Diploma candidates based on *Inter-Se-Merit* of CET, and further if the seats remain vacant such seats shall be considered for allotment to the Bachelor of Science candidates on *Inter-Se-Merit* of CET.
- 45.5% of the total seats are allotted for Home University and 19.5% for Outside Home University students through CAP rounds. The merit list for candidates is prepared on the basis of marks or score secured by the candidate in the CET conducted by the Competent Authority or marks or score secured in any other examination conducted by the concerned appropriate authority for the purpose of admission.
- 15% of the total seats are allotted as All India Seats. These seats are available for allotment through CAP, on the basis of All India Rank given by CBSE for JEE (Main) (Paper 1) to the eligible candidates. All these seats are treated as “General Category” seats and no reservation is applicable in these seats category wise.

Admissions in Institutional Quota and vacant seats after CAP

- Though 20% of the seats are allotted for Institute Level quota, we at PRMIT&R retain only 10% of intake for the Institute level admissions. The admissions under this category are also done on merit basis based on MH-CET score. For the seats remaining vacant after CAP round & Institute Level vacant seats, the admission criteria is followed in the order of merit. The following procedure is adopted for the admissions :

Advertisement is given in the news papers informing the details of Institute level seats and vacancy against CAP and aspirants are asked to apply.

- Institution invites applications by notifying schedule of admission and the number of seats in each course to be filled by the institution, by advertisement in at least two leading newspapers and on the website of the institution.
- Admissions are made in a transparent manner and strictly as per the *Inter-Se-Merit* of the Candidates who have applied to the Institution.
- Information brochure or prospectus of the Institution which specifies rules of admission are published well before the commencement of the process of admission.

All the information in the brochures is displayed on the Institution's website.

Table 2.1.2 : Number of seats allotted to different test qualified Candidates:

Category	Number of seats Allotted
MS State Candidates	45.5 % for HU 19.5% for OHU
All India Seats	15 %
Institutional Quota	20 %

- 2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.**

Table 2.1.3 : Maximum and Minimum Cutoff Marks of General Category Students of the Institute

2013-14 (On the Basis of MHT-CET Score out of 200 marks)

Branch	Intake	Max Cutoff	Min Cutoff
Civil Engineering	60	114	77
Civil Engineering (Second Shift)	60	87	62
Computer Science & Engineering	120	120	71
Computer Science & Engineering (Second Shift)	60	85	53
Information Technology	120	106	53
Electronics & Telecommunication	120	112	67

Electronics & Telecommunication (Second Shift)	60	94	64
Mechanical Engineering	120	126	67
Mechanical Engineering (Second Shift)	60	96	68

2014-15 (On the Basis of JEE Composite Score)

Branch	Intake	Max Cutoff	Min Cutoff
Civil Engineering	60	86.29	63.65
Civil Engineering (Second Shift)	60	75.74	44.92
Computer Science & Engineering	120	86.63	40.92
Computer Science & Engineering (Second Shift)	60	58.51	51.10
Information Technology	120	70.81	34.06
Electronics & Telecommunication	120	87.52	61.55
Electronics & Telecommunication (Second Shift)	60	60.30	48.93
Mechanical Engineering	120	90.99	65.51
Mechanical Engineering (Second Shift)	60	75.92	55.04

2015-16 (On the Basis of JEE Composite Score)

Branch	Intake	Max Cutoff	Min Cutoff
Civil Engineering	60	91.27	47.90
Civil Engineering (Second Shift)	60	67.32	42.25
Computer Science & Engineering	120	90.53	56.11
Computer Science & Engineering (Second Shift)	60	57.84	38.01
Information Technology	120	72.86	33.50
Electronics & Telecommunication	120	82.17	37.46
Electronics & Telecommunication (Second Shift)	60	43.06	28.73
Mechanical Engineering	120	92.84	48.98
Mechanical Engineering (Second Shift)	60	68.50	42.25

2016-17 (On the Basis of MHT-CET Score out of 200 marks)

Branch	Intake	Max Cutoff	Min Cutoff
Civil Engineering	60	121	85
Civil Engineering (Second Shift)	60	82	62
Computer Science & Engineering	120	137	81
Computer Science & Engineering (Second Shift)	60	87	66
Information Technology	120	109	48
Electronics & Telecommunication	120	108	56
Electronics & Telecommunication (Second Shift)	60	63	44
Mechanical Engineering	120	117	72
Mechanical Engineering (Second Shift)	60	91	55

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?

- The admission policies are framed by the State Government time to time and the Institute has to adhere to these rules.
- Put together, 90% of the students are admitted by ARC. However, the policies regarding admissions to institute level quota are framed by the Institute as per the directives from AICTE.
- The cut-off marks vary every year for each branch of Engineering depending on the demand for the particular discipline.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion

- * SC/ST
- * OBC
- * Women
- * Differently abled
- * Economically weaker sections
- * Minority community
- * Any other

SC/ST and OBC:

- The scheme/mode of concessions, scheme of loan scholarship (if any) for eligible SC/ST/VJ/NT/SBC /OBC category candidates, the tuition & other fees are applicable as State Government and Central Government norms.

Women:

- Female student population is approximately 40% and hence they take leading roles in almost all activities. Benefits of various State and Central Government are extended to girls. In addition, the Institute also facilitate in providing the aid to girls through social organizations like, IKEA Foundation and Lila Poonawala Foundation.

Different categories of persons with disabilities:

- Persons with disabilities are taken due care. The ramps, lift, wheelchair, staircase railings are provided to help the persons with disabilities.
- The brail keyboard has been developed by Dr. D. T. Ingole for the blinds.

Economically weaker sections:

- Financially weaker students are supported with scholarships as per State Government norms which include EBC concession and Tuition Fee Waiver Scheme (TFWS). In addition, the Institute level financial aid is also provided to the needy students.

Minority community:

- Students belonging to Muslim/ Christian/ Buddhist/ Sikh/ Parsi community can apply for the 'Merit-cum- Means Based Scholarship Scheme' of Government of India. The eligibility criterion, procedure for application, application Proforma and scheme details are available on www.dte.org.in and <http://minorityaffairs.gov.in>.
- Students belonging to Muslim/ Christian/ Buddhist/ Sikh/Parsi/Jain community can apply for the 'State Government Scholarship for post HSC Higher and Professional Education of Government of Maharashtra. The eligibility criterion, procedure for application Proforma and scheme details are available on www.dtemaharashtra.gov.in, <http://www.dtemaharashtra.gov.in/scholarship/> & <http://www.mdd.maharashtra.gov.in>

Table 2.1.5 (a) : Scholarship Details for CAY – 2015 -16 (For UG Courses)**Bachelor of Engineering:**

Sr. No.	Type of Scholarship	% of Amount (Sanctioning)	Amount (in Rupees)	No. of Beneficiary Students
1	SC Scholarship	100% Tuition Fee + Development	3,74,40,000/-	386
2	SC Freeship	100% Tuition Fee + Development	1,37,70,000/-	153
3	OBC Scholarship	50% Tuition Fee	4,56,75,000/-	1015
4	OBC Freeship	50% Tuition Fee	1,60,65,000/-	357
5	SBC Scholarship	100% Tuition Fee	51,20,000/-	64
6	SBC Freeship	100% Tuition Fee	20,00,000/-	25
7	VJNT Scholarship	100% Tuition Fee	1,37,60,000/-	217
8	VJNT Freeship	100% Tuition Fee	59,20,000	74
9	EBC Concession	50% Tuition Fee	1,11,60,000/-	248
10	State Govt Scholarship for Minorities	Fixed Amount of Rs. 25000/-	10,75,000/-	43

Table 2.1.5 (b) : Scholarship Details for CAY – 2015 -16 (For PG Courses)**Master of Engineering (Full -Time + Part-Time)**

Sr. No.	Type of Scholarship	% of Amount (Sanctioning)	Amount (in Rupees)	No. of Beneficiary Students
1	SC Scholarship	100% Tuition Fee + Development	7,00,000/-	7
2	State Government Scholarship for Minorities	Fixed Amount of Rs. 25000/-	1,25,000/-	5

**Table 2.1.5 (c) : Scholarship Details for CAY - 2015 -16 (For MBA Course)
Master of Business Administration (MBA)**

Sr. No.	Type of Scholarship	% of Amount (Sanctioning)	Amount (in Rupees)	No. of Beneficiary Students
1	SC Scholarship	100% Tuition Fee + Development	10,12,440/-	13
2	SC Freeship	100% Tuition Fee + Development	1,55,760/-	2
3	OBC Scholarship	50% Tuition Fee	1,56,60,000/-	42
4	OBC Freeship	50% Tuition Fee	1,52,000/-	4
5	SBC Scholarship	100% Tuition Fee	77,880/-	1
6	SBC Freeship	100% Tuition Fee	Nil	Nil
7	VJNT Scholarship	100% Tuition Fee	3,11,520/-	4
8	VJNT Freeship	100% Tuition Fee	Nil	Nil
9	EBC Concession	50% Tuition Fee	4,88,474	14
10	State Government Scholarship for Minorities	Fixed Amount of Rs. 25000/-	200000/-	8

**Table 2.1.5 (d) : Scholarship Details for CAY - 2015 -16 (For MCA Course)
Masters in Computer Applications (MCA)**

Sr. No.	Type of Scholarship	% of Amount (Sanctioning)	Amount (in Rupees)	No. of Beneficiary Students
1	SC Scholarship	100% Tuition Fee + Development	3,52,000/-	5
2	SC Freeship	100% Tuition Fee + Development	2,81,600/-	4
3	OBC Scholarship	50% Tuition Fee	33,400/-	1
4	OBC Freeship	50% Tuition Fee	9,01,800	27
5	SBC Scholarship	100% Tuition Fee	67,000	1
6	SBC Freeship	100% Tuition Fee	1,34,000	2
7	VJNT Scholarship	100% Tuition Fee	Nil	Nil
8	VJNT Freeship	100% Tuition Fee	2,01,000/-	3
9	EBC Concession	50% Tuition Fee	5,07,345/-	15
10	State Government Scholarship for Minorities	Fixed Amount of Rs. 25000/-	1,25,000/-	5

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.

- The following bar chart shows a trend in demand ratio for BE, MBA and MCA admissions in last four years.
- The bar chart clearly indicates the turbulence in demand ratio for professional courses.
- The demand for three engineering branches, i.e. Civil, Computer and Mechanical is more or less constant.
- The demand for Electronics and Information Technology is consistently decreasing because of gap in demand and supply within the region.
- The demand for MBA is improving. The improvement is because of good number of placement.
- The demand for MCA is fluctuating because of continuous changes in admission process and policies of DTE. The obvious reason is overall recession in placement of MCA post graduates.
- The Institute is working on every front and putting all efforts to enhance the employability of the students.

Figure 2.1.6 : Chart showing Trend of Demand Ratio for BE, MBA & MCA Admissions

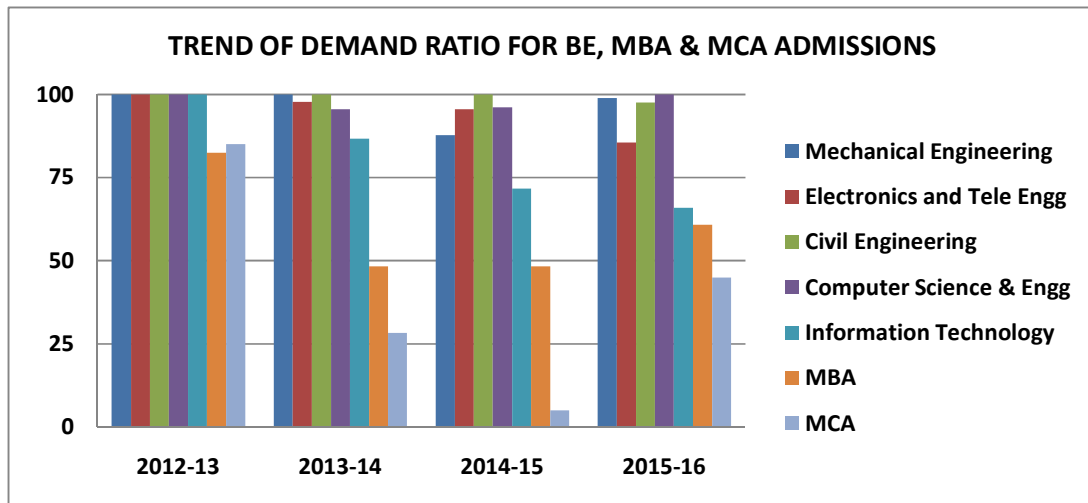


Table 2.1.6 : Details of Various Programs Offered By Institute & Trend in Demand

(Note : The demand ratio cannot be calculated as the admissions are done through online Central Admission Process at State Level.)

Year	Program	Number of Applications Received (Sanctioned Intake)	Number of students admitted	% Demand
2015-16	UG			
	1. Mechanical Engineering	180	178	98.89
	2. Electronics and Telecomm. Engineering	180	154	85.56
	3. Civil Engineering	120	117	97.50
	4. Computer Science and Engineering	180	180	100.00
	5. Information Technology	120	79	65.83
	6. UG 2 nd Year Direct: Civil Engineering	60	60	100.00
	PG			
	1. Structural Engineering	18	8	44.44
	2. CAD/CAM	18	11	61.11
	3. Thermal Engineering	24	8	33.33
	4. Electronics and Telecomm. Engineering	24	18	75.00
	5. Computer Science and Engineering	24	19	79.17
	6. Information Technology	24	0	0.00
	7. Environmental Engineering (PT)	7	4	57.14
	8. Production Technology & Mgt. (PT)	18	4	22.22
	9. Digital Electronics (Part-Time)	20	4	20.00
	10. Computer Science and Engineering (PT)	18	4	22.22
	11. Information Technology (PT)	18	0	0.00
12. Master of Business Administration (MBA)	120	73	60.83	
13. Masters in Computer Applications	60	27	45.00	
Ph.D.	16	16	100.00	
2014-15	UG			
	1. Mechanical Engineering	180	158	87.78
	2. Electronics and Telecomm. Engineering	180	172	95.56
	3. Civil Engineering	120	120	100
	4. Computer Science and Engineering	180	173	96.11
	5. Information Technology	120	86	71.67
	6. UG 2 nd Year Direct: Civil Engineering	60	60	100.00
	PG			
	1. Structural Engineering	18	18	100.00
	2. CAD/CAM	18	15	83.33
	3. Thermal Engineering	24	11	45.83
	4. Electronics and Telecomm. Engineering	24	20	83.33
	5. Computer Science and Engineering	24	22	91.67
	6. Information Technology	24	8	33.33
	7. Environmental Engineering (PT)	7	3	42.86
	8. Production Technology & Mgt. (Part-Time)	18	9	50.00
	9. Digital Electronics (Part-Time)	20	6	30.00
	10. Computer Science and Engineering (Part-Time)	18	8	44.44

	11. Information Technology (Part-Time)	18	0	0.00
	12. Master of Business Administration (MBA)	120	58	48.33
	13. Masters in Computer Applications	60	3	5.00
	Ph.D.	20	20	100.00
2013-14	UG			
	1. Mechanical Engineering	180	180	100
	2. Electronics and Telecommunications Engineering	180	176	97.78
	3. Civil Engineering	120	120	100.00
	4. Computer Science and Engineering	180	172	95.56
	5. Information Technology	120	104	86.67
	6. UG 2nd Year Direct: Civil Engineering	60	60	100.00
	PG			
	1. Structural Engineering	18	18	100.00
	2. CAD/CAM	18	13	72.22
	3. Thermal Engineering	24	24	100.00
	4. Electronics and Telecommunications Engineering	24	24	100.00
	5. Computer Science and Engineering	24	24	100.00
	6. Information Technology	24	18	75.00
	7. Environmental Engineering (Part-Time)	7	5	71.43
	8. Production Technology & Mgt. (Part-Time)	18	7	38.89
	9. Digital Electronics (Part-Time)	20	12	60.00
	10. Computer Science and Engg (Part-Time)	18	15	83.33
	11. Information Technology (Part-Time)	18	6	33.33
	12. Master of Business Administration (MBA)	120	58	48.33
13. Masters in Computer Applications	60	17	28.33	
Ph.D.	19	19	100.00	
2012-13	UG			
	1. Mechanical Engineering	120	120	100
	2. Electronics and Telecommunications Engineering	180	180	100
	3. Civil Engineering	120	120	100
	4. Computer Science and Engineering	180	180	100
	5. Information Technology	120	120	100
	6. UG 2nd Year Direct: Civil Engineering	60	60	100.00
	PG			
	1. Structural Engineering	18	18	100.00
	2. CAD/CAM	18	18	100.00
	3. Thermal Engineering	-	-	-
	4. Electronics and Telecommunications Engineering	-	-	-
	5. Computer Science and Engineering	24	24	100.00
	6. Information Technology	24	18	75.00
	7. Environmental Engineering (Part-Time)	7	7	100.00
	8. Production Technology & Mgt. (Part-Time)	18	17	94.44
	9. Digital Electronics (Part-Time)	20	18	90.00
	10. Computer Science and Engineering (Part-Time)	18	18	100.00
	11. Information Technology (Part-Time)	18	18	100.00
	12. Master of Business Administration (MBA)	120	99	82.50
13. Masters in Computer Applications	60	51	85.00	
Ph.D.	16	16	100.00	

2.2 Catering to Student Diversity

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

- The policies of Government of Maharashtra for differently abled students are adopted and strictly followed by the Institute from time to time.
- Persons with disabilities are taken due care. The ramps, lift, wheelchair, staircase railings are provided to help the persons with disabilities.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

- Based on CET score, the weaker students are identified and provision for giving them extra input is made. Newly admitted students at first year level of BE, MBA and MCA programs are made to undergo systematically designed orientation/induction program.
- Department of Management Studies, do assess & identify the skills required to be acknowledged before starting of the new academic session.
- The contents are exclusively selected from the Syllabus of 1st year of MBA program provided by SGBAU for successful conveyance of the course under its affiliation. Few significant topics are selected out of the range of subjects from curriculum and aligned with objectives to get desired outcomes. It includes, Quantitative Techniques, Managerial Skills, Soft Skills, Team Building, Public Speaking, Power-point Presentation, Written Communication, Resume Writing, Email Writing, etc.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

- Although the curriculum is revised at university level after regular interval of time to accommodate latest development in the technology & updates, the technology develops faster than the frequency with which the curriculum is revised. Therefore, to keep the students informed about latest trends, departments offer following additional contents to bridge the gap :
 1. For the newly enrolled students of MBA and MCA, the induction program is conducted every year at the beginning of the semester.
 2. Whereas, for engineering students, the guest lectures are arranged by inviting experts from industries, government organizations, alumni and practices.
 3. Field visits are arranged at nearby and distant industries. This gives an opportunity to the students to know about real-world applications of the subjects being studied by them.

4. The departments motivate students to participate in state level, national level paper presentation, workshops, training programs, conferences & technical events. This opportunity helps to bridge the gap between the current trends and course curriculum.
5. The Institute encourages teachers to attend the conferences, workshops and training programs organized by other institutions & professional bodies. In turn, teachers transfer what they have learned in the workshops and training programs to the students.
6. The departments maintain relationships with industries and outside world through MoUs. This collaboration helps in aligning the curriculum with the industry needs, which in turn helps in improving the employability of the students.
7. Students are encouraged to undergo in-plant training during the vacation between successive semesters.
8. Students can have direct access to e-journals. This includes Science Direct Elsevier e-journals, ASME e-journals, ASTM & J-GATE e-journals.
9. The digital resources on latest trends in various disciplines are made available to the students. These digital contents are borrowed from agencies of repute like NPTEL (National Program on Technology Enhanced Learning) etc.
10. Extra lectures are scheduled for the students directly admitted to the third semester after their diploma. These students join the department late due to admission procedural delay. Their academic loss is overcome through these extra lectures. Remedial classes are conducted for the weaker students by the concerned subject teachers.
11. Special coaching is arranged by the departments free of cost to guide GATE aspirants. Also, curriculum related software training programs like MATLAB, CATIA, Pro-E etc. are arranged.
12. Apart from technical knowledge & professional ability, other qualities like personality development, soft skills, communication skill, environment protection, conservation of natural resources, humanities, social responsibility, sports, health & safety are inculcate in the students through their active participation in the extra-curricular & co-curricular activities.

All the above strategies are adopted by the institution to bridge the knowledge gap of the enrolled students.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

- The Women's grievance committee is formed for the security, welfare and grievance redressal of women as per the instructions of Director of Technical Education. The committee is active in the institution which looks into the grievances of women and endeavors for a safe and secure women friendly atmosphere in the Institute.

- The working environment in the Institute is cohesive. All employees render their services together irrespective of cast, creed, gender and social background.
- The Institute frequently organizes workshops, seminars and invited talks on various current and societal issues. The Institute has received the “Environmental Award - 2012” by SGBAU. To sensitize the students about environment, the various programs in association with Government and Professional Societies are organized time to time. These include maintaining cleanliness in the campus and surroundings, water harvesting, save electricity etc. Also our Institute observes ‘World Environment Day’ every year on 05 June. In every program organized by the Institute, we offer the Plant saplings to the guests as the symbol of environment awareness. Students participate enthusiastically in tree plantation program generally organized by the NSS unit.

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

- Advanced learners are identified through their performance in SGBAU examination, internal assessment tests, interaction in class rooms and labs, strength in basics, understanding and articulation abilities etc. The Institute fosters independent learning that contributes to their academic and personal growth.
- Students are encouraged to present their ideas in conferences.
- Students are encouraged to refer journals in the library.
- Students are encouraged to utilize internet facility to search the technical contents and watch videos on advanced topics. There is the digital display board in Mechanical Engineering department on which the feeds on advanced manufacturing techniques run continuously. It has been suggested to implement in all departments.
- Students are encouraged to work on industry defined problems and participate in the Competitions.
- Students are encouraged to attend competitive events conducted by the other institutes.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

- The Institute has a Teacher Guardian system for the individual and group counseling of the students, where a group of twenty students are assigned to a faculty member. The counselor monitors students performance, advise them and informs about the institutional rules and policies and try to solve their general as well as personal queries.

- Students who are at the risk of discontinuation are given special attention and guided for improving the performance. The socially and economically disadvantaged students are supported with scholarships, fee reimbursement and concession facilities as per Government and Institute rules.
- The extra teaching, counseling and guidance are given to the slow learners. They are encouraged to participate and intermingle with the sincere students.

2.3 Teaching-Learning Process

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

- Every year, well in advance of beginning of the semester, the Academic Dean, in consultation with the Principal and also referring to the SGBAU academic calendar, prepares an academic calendar enlisting the working days, holidays, internal assessment test schedule and dates of important events in the semester.
- Every department scrupulously follows this academic calendar.
- The allotment of the subjects is done by HOD and in consultation with the faculty at the end of previous semester in the faculty meeting.
- The faculty members prepare the teaching plan as per the SGBAU syllabus, referring to academic calendar.
- The internal assessment tests are conducted as per the university pattern.
- Students are given an opportunity to see their answer books after valuation and seek clarifications, if any.
- The test papers are evaluated within three days by the concerned faculty and the marks obtained are displayed on the student's notice board.

Table 2.3.1 : Academic Calendar for the AY 2015-16
(As per the guidelines of SGBAU Gazette Part II)

Odd Semester

Sr. No.	Activity	Date / Duration
1	Start of First Session	22/6/2015
2	Commencement of Classess	29/6/2015
3	Students Feedback - I	20/7/2015 to 25/7/2015
4	Class Test - I	10/8/2015 to 14/8/2015
5	Parents' Meet	26/9/2015
6	Class Test - II	28/9/2015 to 3/10/2015
7	Class Test – III (Remedial)	15/10/2015 to 17/10/2015
8	Students Feedback - II	15/10/2015 to 21/10/2015
9	Final Submission	26/10/2015 to 31/10/2015
10	Winter Vacation (Part – I)	8/11/2015 to 15/11/2015
11	First Session (Contd.)	16/11/2015 to 28/11/2015
12	Winter Vacation (Part – II)	29/11/2015 to 13/12/2015

13	University Theory/ Pract Exam	Nov-Dec' 2015 As per SGBAU Exam Time Table
14	End of First Session	13/12/2015

Even Semester

Sr. No.	Activity	Date / Duration
1	Start of Second Session	14/12/2015
2	Commencement of Classess	21/12/2015
3	Students Feedback - I	20/1/2016 to 30/1/2016
4	Class Test - I	16/2/2016 to 18/2/2016
5	Parents' Meet	20/2/2016
6	Class Test - II	21/3/2016 to 23/3/2016
7	Class Test – III (Remedial)	28/3/2016 to 1/4/2016
8	Students Feedback - II	1/4/2016 to 9/4/2016
9	Final Submission	1/4/2016 to 9/4/2016
10	End of Academic Session	7/5/2016
11	Summer Vacation	8/5/2016 to 19/6/2016
12	University Theory/ Pract Exam	Apr-May' 2016 As per SGBAU Exam Time Table

2.3.2 How does IQAC contribute to improve the teaching -learning process?

- Departmental Academic Assessment Committee (DAAC) is the department level academic monitoring committee and plays a major role in improving the teaching-learning process.
- The committee monitors each academic activity in the department and ensures that the same is taking place as per the schedule.
- The academic progress of students, marks scored in the internal assessments tests as well as attendance is communicated to the parents. Further, the slow learners are identified. The slow learners are instructed to attend remedial classes.
- DAAC assures maintenance of quality in academic activities.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

- The Institute is one of the training centers identified by Wipro to promote student centric learning under its prestigious, "MISSION-10X" program. The Institute has adopted MISSION-10X learning approach.
- The adopted teaching pedagogy clearly supports the student centric learning. The faculty delivers contents using the conventional chalk & talk method as well as other innovative teaching techniques.

- NPTEL digital resources are available for the faculty and students in Central Library. Every departmental library has a collection of digital resource contents in the form of CDs and DVDs.
- The students can make use of computer facilities available in the department to gain access to these materials and can gather plenty of information pertaining to a particular topic. This promotes independent learning habit among the students.
- Group activities are encouraged among students to promote collaborative learning. The support structure and systems available for teachers to develop skills like interactive, collaborative and independent training among the students are as follows :

Interactive learning:

- Emphasis on regular self study beyond classroom hours and participation in interaction with teachers during normal lecture/ tutorial classes/ lab class/ seminar/ project presentation, guest lectures, etc.
- Students are encouraged to learn the topics being covered on regular basis in advance and remain updated for better participation in any of occasions during the semester.

Collaborative Learning:

- Through the process of carrying out experiments in lab class in a group of 2/3 students, seminar and related activities like project demonstration/ presentation/ industrial visits etc, he/ she is made to learn and develop skills of collaborative learning.

Independent Learning:

- Through the process of sincere participation of a student with an aim of performing well, he/she is motivated to appear in various evaluation tools, like quizzes, unit tests, periodic class tests, university exams, mock interviews, viva-voce etc and develop independent learning skills, etc. Further teachers motivate students to appear and do well in competitive exams like GATE, GRE, CAT, GMAT etc. independently through their own initiatives.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

The following efforts help to cultivate the critical thinking and creativity in the students :

- Critical thinking habit of students is nurtured in the classroom itself. As a part of their teaching, numerical and case studies are explained to the students are allowed to solve the numerical in the regular classes and home assignments are also given. The seminar topics are also taken by the students of their choice and which they understand on their own, prepare and explain in front of the other students. All these things make students think critically in the diverse situations during learning. Mini-projects for real time applications are assigned to students during third year of their course.

- In order to boost the critical thinking, techniques like brain storming, quiz, etc. are adopted while delivering the content.
- In the laboratory work, students are given wide exposure to handle the devices and equipment and understand the principles and logics and make their own observations so that they imbibe a scientific temperament.
- In the Library hours, students are encouraged to go through the journals to get an exposure to the recent developments in their branch of specialization and to realize that lifelong learning is essential to keep pace with the advancing technology for a successful career.
- Students are also motivated to go for summer training/ in-plant internship at leading industries and research institutes.
- Project exhibitions are organized by the Institute at National level which makes the students to demonstrate their innovative projects and achievements. This makes the student to think, apply his creativity and scientific temper towards particular scientific problem which transforms the student into life-long learner and innovator.
- Robotics, circuit designing, aero-modeling and many other workshops are organized by the Institute in which students undergo for hands-on training.
- Alumni meetings are arranged every year. This meeting provides the students to interact and learn from the successful seniors.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

- Under Virtual Labs – An Initiative of Ministry of Human Resource Development under the National Mission on Education through ICT, the Institute is designated as a Nodal Centre for Virtual Labs.

Following facilities are available & used by the faculty for effective teaching:

- LCD and Overhead projectors are available in class rooms
- Models and Charts

- Internet Connections in Class Rooms & Tutorial Rooms
- Document Camera
- Interactive Board
- Internet Connections in class rooms
- Virtual Lab software and other essential software
- Spoken Tutorial Projects (video tutorials)
- **Digital Resources :**
 - E-books : 1218
 - CD/DVD : 2312
 - Tutorial CD/DVD : 700
 - NPTEL Courses DVD : 444

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

- Institute regularly organizes the seminars, conferences, faculty development programs (FDP) & guest lecturers.
- Faculty members and students are encouraged to participate in various national and International seminars, refresher courses and workshops.
- Arrangements of Soft skills & Personality Development classes.
- Short term courses are imparted in winter and summer vacations by experts, faculty members and industry resources.
- Industry personnel are often invited to share their knowledge with students and teachers.
- In-plant training and industry visits are arranged every year.

2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advise) provided to students?

- Faculty mentors are deputed for every 20 students and they continue to be the advisor for a particular student till he completes his course by monitoring growth of the students and their academic needs, giving career counseling, etc.
- The faculty mentors normally keep in touch with the parents.
- Two psychologists have been deputed for needy students to give intensive personal counseling. On an average, they engage around 25-30 individual cases in a semester.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Apart from regular lectures through chalk-and-talk, following innovative teaching approaches are being practiced in various departments :

- Demonstration, group discussion, field visits, using digital contents, etc.
- Modern teaching aids help the faculty to deliver interactive lectures and demonstrations.
- Well equipped laboratories widen their knowledge and skills.
- Faculty members apply teaching methods such as group discussions, seminars/ student presentation for better understanding of concepts/ technologies.
- SMART boards are being used in computer labs for teaching purposes.
- Computers & laptops are used for teaching purposes and internet facility is available in classrooms.

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

- Students can use the resources of library such as books, periodicals, technical journals and publications and also access the Internet and NPTEL contents on intranet.
- The library timings are between 7:30 am to 6:00 pm. Library provides open access to the students. Students can search, choose and get issued the books they required.
- The library has a wide reading room section with reference books, journals and PC terminals.
- A book bank facility is available for the students.

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

- Yes, the Institute faces challenges in completing the curriculum for First year and lateral entry Direct Second year students. This is obviously because of delay in centralized admission procedure every year.
- The extra lectures are organized on holidays and the lectures are extended whenever possible.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

- The department level Academic Monitoring Committee monitors and evaluate the quality of teaching learning process.
- Institute Academic Advisory Committee (IAAC) has been constituted in the Institute to achieve academic excellence.
- The main objective is to ensure the effective implementation of academic schedule as specified by SGBAU.
- IAAC primarily monitors the conduction of regular theory and practical classes, course completion, delivery mechanism, curriculum transaction and conduct of internal assessment tests, etc.
- IAAC ensures that departments are completing all academic activities within the stipulated time as mentioned in the academic calendar.
- IAAC ensures that the departments prepare all required academic and administrative documents before commencement of the classes and are properly notified in time and brought to the notice of all concerned.
- IAAC ensures that the departments are appropriately conducting internal assessment tests, evaluating the scripts and notifying marks on notice boards.
- IAAC ensures the proper execution of various activities mentioned in the university as well as Institute academic calendar.
- IAAC collects reports from each department regarding the activities and performance of department periodically.
- Academic monitoring by the Principal through regular interaction with student representatives as well as faculty.

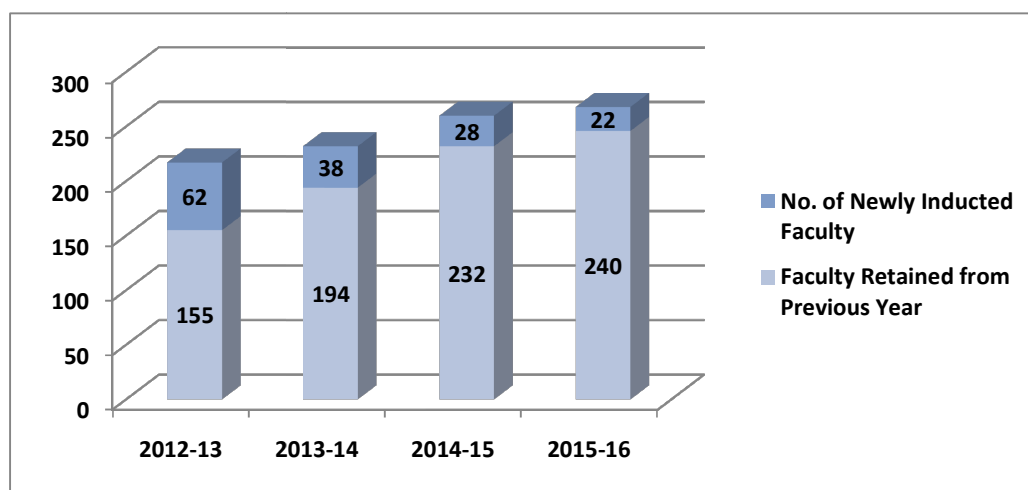
2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

- Following Table gives the details of faculty recruitment and retention :

Table 2.4.1 : Details of Faculty Position and Retention

Year	Faculty Required as per AICTE Norms	Faculty Available	No. of Newly Inducted Faculty	Faculty Retained from Previous Year
2015-16	262	262	22	240
2014-15	258	260	28	232
2013-14	240	232	38	194
2012-13	206	217	62	155

Figure 2.4.1 : Faculty Retention and New Faculty Inducted

- The Institute has a splendid past of 33 years in technical education and is well-known for highly qualified, experienced, dedicated and stable faculty.
- The retention ratio of our Institute is exceptionally high in the state of Maharashtra as far as self-financed institutions are concerned.
- The Student/Teacher Ratio, Faculty Cadre Ratio and Faculty Qualification index are consistently excellent.
- The Institute always regards quality in engineering education as a significant and long-term component of its activity. The institutional support is reflected in constructive leadership, adequate policies and mechanisms for attracting, appointing, retaining and rewarding well-qualified staff. It is ensured that creative leadership is available to the Institute.
- The new faculty is inducted because of natural growth, sharing of teaching load of other departments and vacancies created in natural course.
- The Institute has well established HR policies in line with norms of AICTE and parent university. The faculty recruitment is conducted as per the directives received from AICTE, State Government and SGBAU time to time.
- The recruitment procedure is carried out by the establishment section of the Institute. The necessary advertisement is published in regional and local newspapers and Institute website.
- After receiving applications in response of advertisement, short listed candidates as per inter-se-merit are called for the interview.
- The candidates are selected department wise by the corresponding interview panel comprising of selection committee which ensures the selection of competent candidates.
- Selection committee consists of the Principal, Heads of Departments, internal and external subject experts and representatives from the Management.
- The recommendations of the Committee are forwarded to the Chairman of governing body for approval and after which appointment orders are issued.
- The decision of the Management is final in all appointments.

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

- The institute has all the core branches of engineering and teaching staff strength is 262. There is a good number of the qualified senior faculty. Approximately, 25% faculty have more than 25 years of industrial and teaching experience and 70% faculty have 3 to 10 years of experience. Only 5% of the inducted faculty members have less than 2 years of experience.

The following efforts are made for updating knowledge and expertise of the faculty:

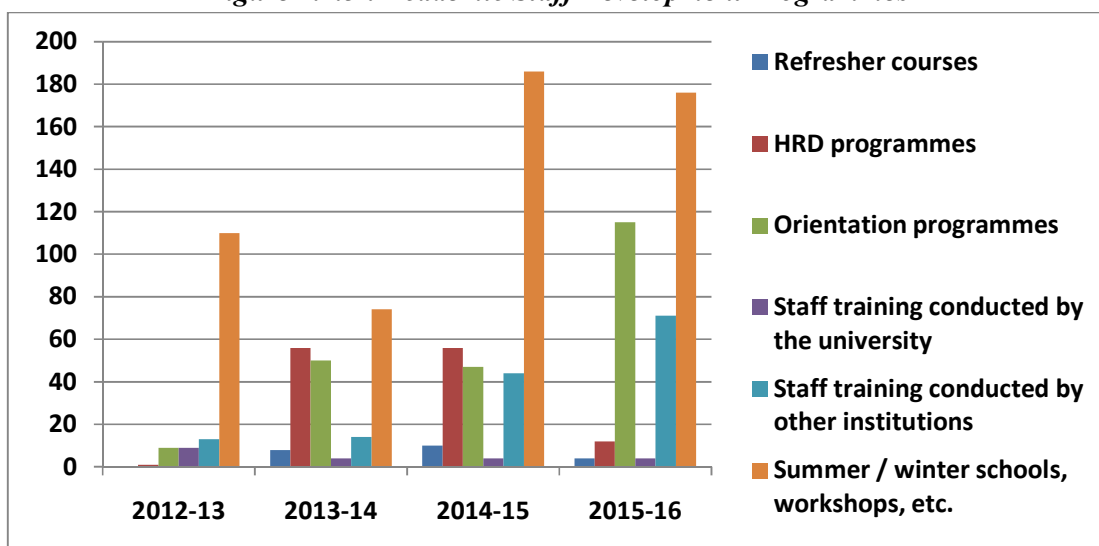
- Faculties are encouraged to participate in workshops and seminars. The faculty is permitted to be on duty and is provided with TA /DA and also with other benefits to upgrade their knowledge by participating in national and international seminars/ conferences/ workshops.
- Institute encourages faculty to participate in summer/ winter courses at state and national level institutions for wide exposure.
- Faculties are encouraged to take up higher studies and improve their qualifications.
- Senior teaching faculties do guide junior faculty in subject preparation and teaching methodologies.
- Necessary books and journals in thrust areas are identified, procured and made available in the library on request from the faculty members.
- Training programs are organized in collaboration with the external professionals.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

- The Institute is promoting professional development of faculties by different ways and means.
- Institute provides reimbursement of expenses, on duty leave for attending staff development programs, encourage faculties to present papers in conferences and provides reimbursement of registration fess, TA/DA.
- Following table gives the details of faculty nominations for variations programs in last four years.

Table 2.4.3(a) : Nomination to staff development programmes (last 4 years)

Sr. No.	Academic Staff Development Programmes	Number of faculty nominated			
		2015-16	2014-15	2013-14	2012-13
1	Refresher courses	4	10	8	0
2	HRD programmes	12	56	56	1
3	Orientation programmes	115	47	50	9
4	Staff training conducted by the university	4	4	4	9
5	Staff training conducted by other institutions	71	44	14	13
6	Summer / winter schools, workshops, etc.	176	186	74	110
7	Other (Specify) - (Workshops/FDP)	21	35	4	19

Figure 2.4.3 : Academic Staff Development Programmes

- b) Faculty Training Programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning : (*Web based/ Satellite/ Tab based/ Hands-on/ Software/ Trainer kits/ Teleconferencing/ Video conferencing/ or any other which has been used)**

Themes of Training Programs

- ❖ Teaching learning methods/approaches
- ❖ Handling new curriculum
- ❖ Content/knowledge management
- ❖ Selection, development and use of enrichment materials
- ❖ Assessment
- ❖ Cross cutting issues
- ❖ Audio Visual Aids/multimedia
- ❖ OER's
- ❖ Teaching learning material development, selection and use

Table 2.4.3(b): Faculty Training Programmes Organized & Participants (Last 4 Years)

Year	Name of Department	Number of Training Program Organized	No. of participants
2015-16	Civil Engg	2	35
	Computer Science & Engg	1	22
	Electronics & Tele Engg	2	38
	Information Technology	1	70
	First Year Engg	1	12
2014-15	Civil Engg	2	33
	Computer Science & Engg	3	77
	Electronics & Tele Engg	4	78
	Information Technology	1	45
	Mechanical Engg	1	40
2013-14	Civil Engg	2	30
	Electronics & Tele Engg	2	49
	Information Technology	1	54
2012-13	Civil Engg	2	30
	Computer Science & Engg	4	53
	Electronics & Tele Engg	1	29
	Information Technology	1	54
	Mechanical Engg	3	118

(c) Percentage of faculty**Table 2.4.3(c) : Percentage of Faculty invited as resource by external professional agencies**

Sr. No.	No. of Faculty Members invited by external organizations as resource persons	Total No. of faculty in the Institute	Percentage of Faculty invited as resource persons
2015-16	76	268	28.35 %
2014-15	26	260	10 %
2013-14	6	240	2.5 %
2012-13	9	217	4.14 %

Table 2.4.3(d) : % of Faculty participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies (last 4 years)

S. No.	No. of Faculty participated in Workshops/ Seminars/ Conferences by National/ International bodies	Total No. of faculty in the Institute	Percentage of Faculty participated
2015-16	156	268	58.20 %
2014-15	82	260	31.53 %
2013-14	77	240	32.08 %
2012-13	113	217	52.07 %

Table 2.4.3(e) : % of Faculty who presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies (last 4 years)

S. No.	No. of Faculty who Presented Papers in Workshops/ Seminars/ Conferences Recognized by National/ International Professional Agencies	Total No. of Faculty in Institute	Percentage of Faculty Presented Papers
2015-16	231	268	86.19 %
2014-15	69	260	26.74 %
2013-14	35	240	14.58 %
2012-13	37	217	17.05 %

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

- The faculty members are encouraged to apply for research grants available at various funding agencies.
- Institute level research grants to the smaller extent are made available to encourage research.

Support for Study Leaves for pursuing Higher Studies :

- Leave for up to a maximum of TWO YEARS is granted ONCE in the tenure of service for pursuing higher studies at the recognized institute, yet he/ she will not be entitled to draw salary from this organization.

Sabbatical Leaves :

- Sabbatical up to the period of one year is granted once in every five years for attachment to a research organization or an institute of good standing with the sole aim of pursuing research activity.
- Although the employee will hold lien with the parent organization, yet he/ she will not be entitled to draw salary from this organization.

Support for Research and Academic Publications :**(a) Presentation of Papers in Conferences in India**

- In order to promote research activities, the Institute approves incentives for outstanding research publications and attending conferences.
- Faculty can reimburse the registration fee of conference.
- The faculty gets on-duty leave, registration fee and T.A./D.A. on actual basis. In case of joint authorship, only one faculty can avail the facility.

(b) Presentation of Papers in Conferences Abroad

- Faculty also gets fixed amount of Rs. 15000/- for attending the conferences at abroad.
- Faculty are deputed for special training programs as and when required and Institute reimburses the expenditure at actual.
- Faculty and students can reimburse the patent filing fee.

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

Following table gives the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years :

Table 2.4.5(a) : Number of Faculty who received awards/ recognition at the state, national & international level for excellence in teaching during last four years:

Year	Number of Faculty who received awards/ recognition at the state, National and International level for excellence in teaching	Names of Awarding Organization
2016	1	IETE
2015	1	ISTE
2014	1	ISTE
2013	Nil	--

Table 2.4.5 (b) : Names of Faculty who received awards / recognition at the state, national & international level for excellence in teaching

Year	Name of Faculty	Title of Award/ Recognition at State/National/ International Level for Excellence in Teaching	Award Agency and Date/Year of Award
2014	Dr. G. R. Bamnote (Dept. of Computer Science and Engineering)	Rajarambapu Patil National Award for Promising Engineering Teacher	ISTE
2015	Dr. T. R. Deshmukh (Dept. of Mechanical Engineering)	Rajarambapu Patil National Award for Promising Engineering Teacher	ISTE
2016	Dr. G. R. Bamnote (Dept. of Computer Science and Engineering)	Brig. M. L. Anand Memorial Award	IETE

Apart from these, following are also the awards and recognition received earlier for excellence in teaching :

- Dr. D. S. Ingole received “Best Engineering College Teacher Award for Maharashtra State”, from ISTE, New Delhi, 2007.
- Dr. N. W. Ingole received “National Design Award for Environmental Engineering” from IE(I), National Design & Research Forum, 2007
- Dr. N. W. Ingole received “Best Engineering College Teacher Award for Maharashtra State”, from ISTE, New Delhi, 2005.
- Dr. N. W. Kale received “Green Teacher National Award” from Sanctuary Asia-ABN AMROC, 2008.

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

- Online student feedback mechanism is in place to evaluate the teachers’ performance.
- The feedback form is made available online to students at the end of the every semester.
- The students are provided with Login ID and password. The feedback schedule is conveyed to HOD & students. Class teachers provide user ID’s & password to the students.
- Students carry out online feedback as per the given schedule.
- The feedback is analyzed on the basis of 13 parameters mentioned in the feedback form. Students rate their feedback on scale of 0 to 3 parameters: Excellent, Good and Fair.

- Reports on the feedback are prepared by Dean (Academics) and forwarded to respective HOD for needful action.
- HOD discusses the feedback with faculty member who needs improvement in teaching & the remedies are suggested.
- The comments are used for evaluation of overall strengths & weaknesses of the teacher pertaining to teaching & sincerity.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

- In the beginning of every semester, the Academic Dean prepares academic calendar in consultation with Principal.
- The academic calendar and examination schedule is brought to the notice of stakeholders by displaying it on notice boards and Institute websites.
- Students are given an opportunity to see their answer books after the evaluation. Progress reports are conveyed to parents of poor students time to time.
- University circulars pertaining to student's interest are also displayed on the notice boards.
- Any changes in evaluation methods are discussed in IAAC meeting and the decision taken is conveyed to other faculty members by HOD in department meetings and thereby to the stakeholders.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

The major evaluation reforms introduced by the university in recent years are following :

- University has introduced the credit based evaluation system by replacing the conventional system in 2010.

On-line entry of internal assessment marks:

- The final internal assessment marks of students are to be entered to SGBAU website during the period notified by university. The concerned in-charge teacher has to enter the internal assessment marks.

On-line uploading of examination/revaluation application forms:

- Examination/revaluation applications are to be uploaded to SGBAU website during the period notified by university.

Question Paper Delivery System:

- All SGBAU examination question papers are delivered through a highly secured data transfer system. Separate security codes are supplied to Examination Officer In-charge, by the University for downloading the question paper. The question paper can be downloaded only 30 minutes before the commencement of examination. Further, the necessary copies of the same are printed and packed. As per the SGBAU guidelines, the entire process strictly takes place in a strong room exclusively meant for the purpose. Entry to the strong room is restricted to examination staff only and the entire process is under CCTV surveillance.

Digital evaluation of answer scripts:

- The answer books are sent to the main SGBAU evaluation centre after the examination. The answer books are scanned to digital form and made available online to various valuation centers established by the university at various colleges for the evaluation by the teachers. As the entire process is automated, the effort of the evaluator is substantially reduced. This new system has eliminated the to and fro transporting of answer books from university to evaluation centers.

Publishing of examination results on university website:

Students get the examination result from university website and the parent institute.

Following are the major evaluation reforms introduced by the Institute :

- Institute has established the online evaluation center in the campus as per directives and support of the university. The evaluation center is equipped with 20 PCs and broadband internet connectivity. The teachers from PRMITR and other institutes report the valuation center and conduct the valuation work.
- Institute has provided the facility to online fill-up the internal assessment marks and practical examination marks of the students.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

- The evaluation reforms specified by the affiliating university are to be followed strictly by each constituent institute.
- The in-charge professor from each department monitors the online entry of internal assessment and practical examination marks and ensures about the accuracy in data entry.
- The university examination process is monitored and controlled by Officer In-charge from the parent institute and Co-officer deputed by the university, who is compulsorily from the other institute.
- A flying squad comprising the members from vigilance committee formed by university used to randomly inspect the working of examination center.

- Principal of the institute has the overall responsibility for smooth conduction of entire examination at particular center.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

The measures adopted by Institute to measure student achievements based on formative and summative assessment approach :

Formative assessment approach

- The goal of formative assessment is to *monitor student learning* to provide ongoing feedback that can be used by teachers to improve their teaching and by students to improve their learning. The formative assessment helps students to identify their strengths and weaknesses and target areas that need work. The formative assessment also helps faculty to recognize where students are struggling and address the problems immediately. The Institute follows semester system of teaching and learning. The students are evaluated by their involvement in attending theory classes, tutorials and practical classes. The level of interaction of students in the class, their performance in unit tests, class tests, the quality and timely submission of the class/home assignments, etc. contributes to the formative assessment process. The continuous evaluation system is adopted by the teachers as the formative assessment approach to measure student's achievements in laboratory classes.

Summative assessment approach

- The goal of summative assessment is to *evaluate student learning* at the end of an instructional units by comparing against some standard or benchmark. The Summative assessments are often having a high point value. As the summative assessment approach, the mid-term and term-end unit test examinations are conducted to evaluate the extent of student learning. Subject seminars, project seminars, mini or major projects performed by the students are the activities helpful to evaluate their learning. The students can also be evaluated by their participation / contribution/ group behavior in activities beyond classroom hours, namely co-curricular and extra- curricular activities as well as self conduct in disciplined manner or otherwise in the campus. Information from summative assessments can be used formatively when students or faculty use it to guide their efforts and activities in subsequent courses.

Initiatives by the Institute which positively impacted the system :

- Institute has established the graded financial awards system, known as the Institute level Scholarship in recognition of achievements of the meritorious student. The University Topper, who tops from all engineering branches, gets 100% tuition fee amount reimbursement. The Institute Topper, who tops from all engineering branches in Institute, gets 50% tuition fee amount reimbursement. The Class Toppers, who tops from all sections of their parent branch, gets 25% tuition fee amount reimbursement. Further such

achievers are formally recognized among peers by eminent personality of University, City, State, Professional Bodies, etc. by receiving certificate of excellence along with prize money/ gifts/ cheques etc.

- The Institute runs many value added courses for personality development as well as emerging technical fields through internal / external resource person. This effort has increased the volume/ percentage of placement in in/off campus drives.
- One to one mentoring/ career guidance by faculty members has encouraged to do well in competitive examinations like GATE, GMAT, GRA, CAT, etc. resulting in above average achievements by the students leading towards higher studies from prestigious National/ International institutions of repute.
- Encouragement in ‘project contests’ and other innovations leading towards research work, presenting/ publishing papers etc, has led to high number of students attaining membership of prestigious professional bodies like IEI, ISTE, IEEE, CSI, etc.
- Institute has established the practice of using direct and indirect methods as summative approach of assessing the attainment of program outcomes.
- The direct methods of assessing the attainment of program outcomes are used, which includes :
 1. Locally developed pre-test or post-test for subject matter knowledge i.e. 2 class tests per semester and one remedial test for the weaker students.
 2. Review presentation for seminar and project work.
- Among the indirect method, data is collected by using survey forms. The result of a particular survey is interpreted and summarized. These surveys in turn give feedback about the level of attainment of program outcomes.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.

Improvements made in ensuring rigor & transparency in Internal Assessment:

- The students are fully engaged in academics and curricular activities during academic session and perform in continuous evaluation system in which their presence and performance are monitored. As per the guidelines of the university, three internal assessment tests are conducted in every semester, the third being a remedial test. Questions and question pattern are generally adopted from university question papers for the internal assessment tests. The test examination is conducted like university examination with separate seating arrangement of the students. Internal test question paper is set for 15 marks and the time allotted is one hour. The evaluation is carried out by respective teacher and the answer books are shown to students for clarifications.

- Also the marks are displayed on students' notice board. There is a separate subject on communication skills and students have to appear for the paper. The internal marks of each subject, practical, seminar and project are displayed on the students' notice board before university examination, so that student can view his internal marks awarded for a subject before appearing in the university examination.

Weightages assigned in internal assessment for overall development of the student:

- The internal assessment scheme does take care of weightage for behavioral aspects, independent learning, communication skill etc. i.e., overall development of students, e.g. 20% of total internal assessment of theory paper and 50% practical caters for level of interaction/class participation, assessment by teacher for behavioral & communications skill, etc. Similarly, the university has a scheme of allotting 2 to 5 marks for student's participation/ performance in co-curricular & extra-curricular activities beyond class room activities.

2.5.6 What are the graduate attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?

Graduate Attributes:

- The programs of the Institute are accredited "Three Times", (2004-2007), (2008-2011) and (2014-2016) by National Board of Accreditation, New Delhi. This year, the Institute has got the continuous status of accreditation by NBA and is in the process of application forth time. Therefore, we have adopted the twelve graduate attributes specified by NBA and identified by the Washington Accord.

The Graduate attributes specified by the college/affiliating university are guided by NBA and they are as follows :

- **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization for solving complex engineering problems.
- **Problem Analysis:** Identify, formulate, review literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, social and environmental considerations.
- **Conduct investigations of complex problems:** Using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.

- **Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- **Ethics:** Apply and commitment to professional ethics, responsibilities and norms of engineering practice.
- **Individual and Team Work:** Function effectively as an individual, as a member or leader in diverse teams and in multi disciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
- **Life-long Learning:** Recognize the need for and have the preparation and ability to engage in independent and life- long learning in the broadest context of technological change.
- **Project Management and Finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Ensuring Attainment of Graduate Attributes by the students :

- The attainment of graduate attributes can be ensured from the attainment program outcomes. The program outcomes are the narrower statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge, and behaviors. The program outcomes must foster the attainment of program educational objectives. The program educational objectives (PEOs) are the broad statements that describe the career and professional accomplishments that program is preparing its graduates to accomplish. The evaluation of attainment of PEOs is performed by conducting the periodic surveys from stake holders. These surveys in turn give feedback about the level of attainment of PEOs. Summary sheet of survey report are prepared & submitted to the DAAC committee for any modification in the PEOs if required. Further, this summary report also serves as a guideline in redefining PEOs. The detail surveys carried out based upon the various survey reports ensures the attainment of graduate attributes by the students.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

- The university has its own system for redressal of grievances for students. With reference to the evaluation, if any student scores less mark than expected, he can apply for reevaluation of answer books after paying the prescribed fee. The student can also apply for a photocopy of his answer book.
- At institution level, grievances related to evaluation are normally redressed by the concerned teacher/Head of the Department/Principal depending on the intensity of the problem. Internal evaluation is made by the concerned subject teacher. The evaluated answer sheets are shown in the class. The students approaches the teachers in case they need a clarification on the award of marks based on the answers and scheme of valuation as specified by the university.

2.6. Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

- Yes. The learning outcomes which are the statements that describe significant and essential learning that learners have achieved, and can reliably demonstrate at the end of a course or program, are the program outcomes (POs). Based on the curricula & the program educational objectives (PEOs), the departments envisage their graduate students to exhibit the following learning outcomes in general:
 - a. An ability to apply knowledge of mathematics, science, and engineering.
 - b. An ability to design and conduct experiments as well as to analyze and interpret data.
 - c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
 - d. An ability to function on multidisciplinary teams.
 - e. An ability to identify, formulate and solve engineering problems.
 - f. An understanding of professional and ethical responsibilities.
 - g. An ability to communicate effectively.
 - h. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
 - i. The recognition of the need for and an ability to engage in life-long learning.
 - j. The knowledge of contemporary issues.

The POs are published and disseminated in following ways:

- The POs are displayed at the prominent locations like laboratories, seminar hall, corridors and notice boards.
- The POs are published on every department's web pages on the Institute website.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

- Departments maintain a Cardex for each student. The Cardex contains basic information of the student along with their marks scored in internal and external examinations. Cardex helps the department in tracking the progress of students at any point of time.
- Parents are informed about the progress of the students.
- The class teachers monitor progress of the students.
- Following table gives the details of the success rate of students for last four years.

Table 2.6.2(a) : Analysis of the Students Results

U.G.

	Item	2015-16	2014-15	2013-14	2012-13
Civil	Number of students admitted in the corresponding First Year + admitted via lateral entry in 2nd year	204	204	144	70
	Number of students who have graduated in the stipulated period	159	145	87	55
	Success Rate	77.94 %	71.07 %	60 %	78.57 %
EXTC	Number of students admitted in the corresponding First Year + admitted via lateral entry in 2nd year	216	144	144	142
	Number of students who have graduated in the stipulated period	160	119	126	128
	Success Rate	74.07 %	82.63 %	87.50 %	90.14 %
CSE	Number of students admitted in the corresponding First Year + admitted via lateral entry in 2nd year	216	216	216	144
	Number of students who have graduated in the stipulated period	188	195	178	90
	Success Rate	87.03 %	90.27 %	82.40 %	62.50 %
Mech	Number of students admitted in the corresponding First Year + admitted via lateral entry in 2nd year	144	144	141	144
	Number of students who have graduated in the stipulated period	136	115	117	99
	Success Rate	94.44 %	79.86 %	82.97 %	68.75 %
I.T.	Number of students admitted in the corresponding First Year + admitted via lateral entry in 2nd year	78	85	73	86
	Number of students who have graduated in the stipulated period	75	74	72	83
	Success Rate	96.15 %	87.05 %	98.63 %	96.51 %

PG: Masters of Business Administration

	Item	2015-16	2014-15	2013-14	2012-13
MBA	Number of students admitted in the corresponding First Year + admitted via lateral entry in 2nd year	56	37	83	51
	Number of students who have graduated in the stipulated period	40	28	51	44
	Success Rate	71.43 %	75.67 %	61.44 %	86.27 %

PG: Masters in Computer Applications

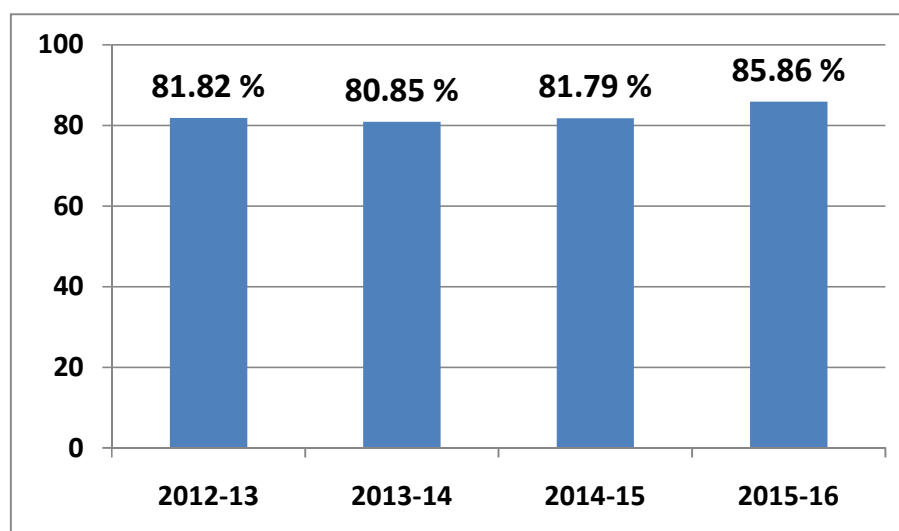
	Item	2015-16	2014-15	2013-14	2012-13
MCA	Number of students admitted in the corresponding First Year + admitted via lateral entry in 2nd year	58	72	60	60
	Number of students who have graduated in the stipulated period	58	62	56	54
	Success Rate	100%	86.00%	93.00%	90.00%

Table 2.6.2 (b): Student Academic Achievements

S. No.	Academic Year	Name of Department	Success Rate	Avg. Success Rate
1	2015-16	Mechanical Engineering	94.44	85.86
		Electronics & Tele. Engg.	74.07	
		Civil Engineering	77.94	
		Computer Science & Engineering	87.03	
		Information Technology	96.15	
		Management Studies	71.43	
		MCA	100	
2	2014-15	Mechanical Engineering	79.86	81.79
		Electronics & Tele. Engg.	82.63	
		Civil Engineering	71.07	
		Computer Science & Engineering	90.27	
		Information Technology	87.05	
		Management Studies	75.67	
		MCA	86	
3	2013-14	Mechanical Engineering	82.97	80.85
		Electronics & Tele. Engg.	87.50	
		Civil Engineering	60.00	
		Computer Science & Engineering	82.40	
		Information Technology	98.63	
		Management Studies	61.44	
		MCA	93.00	
4	2012-13	Mechanical Engineering	68.75	81.82
		Electronics & Tele. Engg.	90.14	
		Civil Engineering	78.57	
		Computer Science & Engineering	62.50	
		Information Technology	96.51	
		Management Studies	86.27	
		MCA	90.00	

Table 2.6.2 (c) : Year wise Trend of Students' Academic Achievements

S. No.	Academic Year	Trend of Students' Academic Achievements
1	2012-13	81.82
2	2013-14	80.85
3	2014-15	81.79
4	2015-16	85.86

Figure 2.6.2 : Year wise Trend of Students' Academic Achievements – Success Index (%)

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

Structure to facilitate the achievement of the intended learning outcomes :

- Following assessment tools and processes are used for assessing the attainment of Learning outcomes:

Assessment Processes:

1. Direct Methods of Assessment
2. Indirect Methods of Assessment

1. Direct Methods of Assessment :

Following are direct methods of assessment used for attainment of learning outcomes :

1. University Semester Examinations
2. Locally developed pre-test or post-test for subject matter knowledge, i.e. Two class tests per semester and one remedial test for the improvement.
3. Review presentation for seminar and project work

Direct Method of Assessment of Learning Outcomes from university examination results :

- The standard is set for university result of each course in terms of expected result in percentage. If the scored result is below a set standard, then concerned learning outcome needs revision. The following table represents the format for assessment of learning outcomes.

2. Indirect Methods of Assessment:

The indirect methods adopted for the assessment of learning outcomes comprises :

Survey method

- The evaluation of attainment of learning outcomes is performed by conducting the periodic surveys from stake holders. These surveys in turn give feedback about the level of attainment of learning outcomes. Summary sheet of survey report is prepared & submitted to the DAAC committee for any modification in outcome, if required. Further this summary report also serves as a guideline in redefining the program outcomes.

Following are the tools used for assessment of learning outcomes :

1. Alumni Survey
2. Employer Survey
3. Student Exit Survey
4. Faculty Survey

- The data is collected by using above survey forms. The result of a particular survey is interpreted and summarized using following summary sheet. This sheet is prepared by the evaluator. It represents the learning outcomes attained by the conducted surveys in terms of percentage.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

Student Placements and Career Guidance

- The Institute has a separate Training & Placement Department. The institute very effectively renders the information regarding career planning to the students, through its career guidance cell. The career guidance cell of the institute is enrolled with SGBAU career counseling Dept. The career guidance cell which is a part of Training and placement department conducts self-assessment seminar every year for second year students. This helps the students in deciding the gray areas those need improvement. The aptitude of the students is also reflected in this process. With these inputs, the cell continuously helps the students in proper planning of their career.

Following activities are conducted every year by this cell :

- Conducting a self-assessment seminar for students.
- Guidance for choosing proper career.
- Personal counseling for opportunities of higher studies in India and abroad.
- Seminar and Coaching for GATE
- Informative seminar about MBA entrance exams and coaching facilities.
- Seminar on Higher education abroad, by various expert agencies.
- Enrollment of final year students with career counseling department of SGB Amravati University
- Availability of ample career guidance opportunities systematically managed by career guidance cell of the training and placement dept has made a significant impact. Students could properly plan and build their career well in advance every year. This year around 350 students secured the job through in-campus recruitment and some students have preferred to go for higher studies.
- The Institute is accredited by TCS and is one of the major recruiters of PRMIT&R. T & P department every year organizes a special training program for students as well as faculty in which aspirants students seek interaction with experienced TCS employees from HR and technical wing of TCS.
- With various renowned national & multinational companies like, Infosys, Satyam Computers, MICO-Bosch, TCS, M&M, Cummins India Ltd, Mphasis, KPIT Technologies, L&T Infotech, and Persistent Sys. Pvt. Ltd., the Institute has established excellent rapport over the period of past 33 Years. Many of our alumni are working at senior levels in various industries.

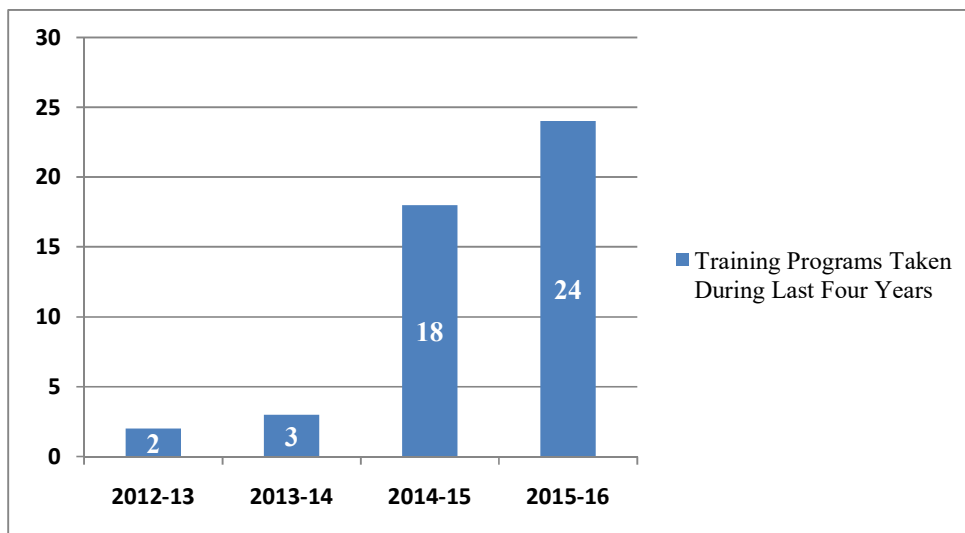
Entrepreneurship

- Through our Entrepreneurship Development Cell a series of awareness programs are arranged for the students to make them aware and impart the knowledge required to become an Entrepreneur. The ED cell encourages students to start their own business. The Institute has organized Entrepreneurship Development workshops in support with Maharashtra Industrial and Technical Consultancy Organization Ltd., (MITCON).
- The Institute has signed MOU with a leading entrepreneurship development organization, “Lemon Ideas” with the objective of providing complete support to the students having some innovative ideas and willing to nurture it to form a start up.
- Institute offers patenting services to the students and faculty free of cost.

Innovation

- The Institute organizes a National level technical festival, TEKNOW-EXPERTS every year. It offers the platform for students to showcase their inherent creative talent and ideas.
- Students are also encouraged to participate in poster and paper presentation, project competition, model building, and many more competitive events.
- Students are encouraged to participate in national level competitions like conducted by IITs and NITs.

Figure 2.6.4 : Training programs during last 4 years



2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?**Collection of data on student performance:**

- Academic ERP software is installed throughout the campus to collect data. The data about student performance activities are collected from faculty members and are recorded in ERP online. Attendance and marks are collected & maintained by faculty in prescribed formats.

Analysis of data:

- The data is analyzed by class teachers, HOD and Dean of Academics. The university final results are discussed by Principal and Management in the meeting.

Corrective action:

- Special classes are conducted for the late joiners and slow learners based on their performance in class tests, internal assessment and University results.
- Special attention to the lateral entry students is given by formation of separate section with extra monitoring.
- Remedial classes for the subject where the number of failures are more.
- Special pre-placement training classes are conducted before annual campus placement season.
- The data is this way collected, analyzed and discussed for planning additional efforts and introduction of corrective measures for better outcome.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?**Monitoring of learning outcomes are done at following levels:**

- i. Class level for course outcome,
 - ii. Departmental level for program outcome,
 - iii. College level for program outcome, consolidating various programs
 - iv. Stakeholders level
- Class teachers and subject faculty play very important role in overall achievement of the outcome through continuous assessment and evaluation of the students.

- HOD takes the review of stated and achieved outcomes of the programme and DAAC recommends the corrective measures.
- The Institute level Academic Advisory Committee headed by Principal and comprising all HODs and Dean Academics evaluates the outcomes of courses and confirms that the outcomes achieved are not deviated from overall stated program outcomes of various programs.
- The stakeholders like alumni, employers and parents also provide feedback to the institute in especially designed feedback formats to analyze the learning outcome of concerned programme and in turn helps in improving the quality of the education.

2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.

Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

- The Institute and an individual faculty member do use assessment/ evaluation outcomes as an indicator for evaluating student performance and achievement of learning objectives. It is used in planning the necessary corrective measures in case of deviation from the expected outcomes. Some of the details of process being followed by the institute/ department/ Faculty such as, monitoring class performance, tests performance, attendance, timely submission of assignments and active participation in the activities assigned by the respective teachers. Slow learners and weak performances are identified for remedial monthly input.
- Attendance % of student is reviewed by HOD and students with poor attendance are identified by the class teachers. Reason for poor performance is ascertained through in-person interaction with students and sometimes with parents for improvement in rest of the semester.
- Meetings are conducted on a regular basis involving Management, Principal, Dean Academics, Heads of Departments, and Training & Placement Officer to formulate strategies for achievement of learning outcomes by the students.

The capability level of a student is generally assessed based on the following parameters:

- Marks scored by him/her in internal as well external examinations
- Performance in aptitude tests, mock interviews and group discussions
- The institution is trying its best to see that the students attain all graduate attributes. The results are visible through the alumnus occupying top positions in the society.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

- Yes. The following departments are recognized by SGBAU, as research centers.

Table 3.1.1 : List of Recognized Research Centers of the Affiliating University

Sr. No.	Name of Department	Subject	Recognition Details	Research Capacity		No. of Research Scholars Registered
1	Mechanical Engineering	Mechanical Engineering	No. AU/554/19/2003, Dt. 21/01/2003	10	30	27
			No. SGBAU/PhD/47/2012 Dt. 09/03/2012	+10		
			SGBAU/PhD/165/2014, Dt. 16/06/2014	+10		
2	Mechanical Engineering	Production Engineering	No. AU/554/19/2003, Dt. 21/01/2003	10	20	18
			No. SGBAU/PhD/47/2012 Dt. 09/03/2012	+10		
3	Electronics & Tele. Engg	Electronics Engineering	No. AU/554/19/2003, Dt. 21/01/2003	10	30	17
			No. SGBAU/PhD/47/2012 Dt. 09/03/2012	+10		
		Electrical Engineering	SGBAU/PhD/05/2015, Dt. 03/01/2015	10		
4	Civil Engineering	Civil Engineering	No. AU/554/19/2003, Dt. 21/01/2003	10	20	16
			No. SGBAU/PhD/47/2012 Dt. 09/03/2012	+10		
5	Computer Science & Engg	Computer Science & Engg	No. AU/554/82/2005, Dt. 11/04/2005	10	20	09
			No. SGBAU/PhD/47/2012 Dt. 09/03/2012	+10		
6	Information Technology	Information Technology	No. SGBAU/PhD/47/2012 Dt. 09/03/2012	10		01
7	Applied Sciences	Chemistry	No. AU/554/181/2004, Dt. 26/03/2004	03		--
Total				143		92

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

- **Yes.** A dedicated team of Research Promotion Cell headed by Dr. N. W. Ingole is functioning under the overall leadership of Principal to monitor the research activities among faculty and students.
- The composition of the committee of Research Promotion Cell is given below :

Table 3.1.2(a) : Research Promotion Cell Committee

Sr. No.	Name	Designation	Department
1	Dr. N. W. Ingole	Director	Civil Engg
2	Dr. P.D. Sawalakhe	Member	Chemistry
3	Dr. P.S. Pajgade	Member	Civil Engineering
4	Dr. M.A. Pund	Member	Computer Sci & Engg
5	Dr. S.J. Deshmukh	Member	Mechanical Engg
6	Prof. S.V. Dhopte	Member	Information Tech.
7	Prof, C.N. Deshmukh	Member	Electronics & Tele.

Recommendations of the Research Promotion Cell are to:

- Motivate the faculty to register for Ph.D and carry on the research work.
- Encourage all the faculty and students to attend more number of Symposia/ Seminars/ Conferences/ Workshops/ FD programs
- Encourage to improve the number of research publications.
- Recommend the institution to allot fund for Faculty & student's research activities.

Impact of the Research Promotion Cell efforts:

- The number of publications by faculty members in journals and conferences are on the rise.
- Participations of students in intra-collegiate seminars/conferences/tech-fests are improved
- Culture of research and patent filing is imbibed.

Table 3.1.2 (b) : List of PhD Supervisors at Institute level & candidates registered

S.No.	Name of Supervisor	Registration No.	No. of Scholars		Department
			Registered	Awarded	
1	Dr. N. W. Ingole	AU/554/256/2003	8	2	Civil Engg
2	Dr. N. W. Ingole	NMU/11/PGR/CIVIL/981/2012	1	0	Civil Engg
3	Dr. P.S. Pajgade	AU/554/236/2005	4	3	Civil Engg
4	Dr. P.A. Kadu	34/2015/(Sr. No.32)	0	0	Civil Engg.
5	Dr. G.R. Bamnote	SGBAU/Ph.D/293/2010/22/2/2010	6	5	Computer Sci & Engg
6	Dr.A.S.Alvi	Noti. No. 10/56/2014/20/1/2014	5	0	Computer Sci & Engg
7	Dr. M.A. Pund	Noti. No. 13/42/2014/14/11/2014	1	0	Computer Sci & Engg
8	Dr. G.R. Bamnote	SGBAU19/2012/726/2/2012	0	0	Information Tech.
9	Dr. A.S.Alvi	SGBAU10/2014/20/01/01/2014	0	0	Information Tech.
10	Dr. M.A. Pund	SGBAU135/2014/14/11/2014	0	0	Information Tech.
11	Dr. S.M.Deshmukh	34/2015/Sr.No.34	0	0	Electronics & Tele. Engg.
12	Dr. D.T. Ingole	65/2013/Sr.No.39	4	0	Electronics & Tele. Engg.
13	Dr. D.T. Ingole	65/2013/Sr.No.26	1	0	Electronics & Tele. Engg.
14	Dr. S.W. Mohod	135/2014/Sr.No.52	1	0	Electronics & Tele. Engg.
15	Dr. S.W. Mohod	135/2014/Sr.No.55	1	0	Electronics & Tele. Engg.
16	Dr. P. V. Ingole	19/2012/Sr.No.81	7	1	Electronics & Tele. Engg.
17	Dr. S.S. Sonare	Au/554/40/200	0	0	First Year Engg.
18	Dr. P.D. Sawalakhe	Au/554/222/2001	0	0	First Year Engg.
19	Dr. K.D. Umale	RRC/Guide/980/B/449	0	0	First Year Engg.
20	Dr. N.B. Ingale	AGBAU/36/7/2010	0	0	First Year Engg.
21	Dr. S. B. Thakre	SGBAU/PhD/287/2010	5	2	Mech Engg
22	Dr. D. S. Ingole	55/2011, Dt. 26/5/2011	5	0	Mech Engg
23	Dr. S.S. Deshmukh	135/2014, Dt.14/11/2014	1	0	Mech Engg
24	Dr. S. J. Deshmukh	55/2011, Dt. 26/5/2011	5	1	Mech Engg
25	Dr. N.W. Kale	135/2014, Dt.14/11/2014	2	0	Mech Engg
26	Dr. T.R. Deshmukh	10/2014, Dt. 20/1/2014	5	0	Mech Engg
27	Dr. C.R. Patil	55/2011, Dt. 26/5/2011	2	0	Mech Engg
28	Dr. S.V. Bansod	AU/554-PhD/Prod/2008	5	5	Prod Engg
29	Dr. C.R. Patil	55/2011, Dt. 26/5/2011	6	0	Prod Engg
30	Dr. A.U. Awate	10/2014, Dt. 20/1/2014	3	0	Prod Engg
31	Dr. D.S. Ingole	135/2014, Dt.14/11/2014	0	0	Prod Engg
32	Dr. C. A. Dhote	SGBAU/PhD/337/2010, Dt.26/7/2010	8	8	Computer Sci & Engg

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

- autonomy to the principal investigator
 - timely availability or release of resources
 - adequate infrastructure and human resources
 - time-off, reduced teaching load, special leave etc. to teachers
 - support in terms of technology and information needs
 - facilitate timely auditing and submission of utilization certificate to the funding authorities
 - any other
- The Institute offers full autonomy to the principal investigator in terms of selection and procurement of the equipment required for the research.
 - The Institute ensures timely disbursement of funds received from agencies to the principal investigator.
 - Purchase of equipment and other accessories needed for research are made hassle-free through timely order and procurement by the administrators.
 - Faculty members who are principal investigator of funded research, if needed are given reduced teaching load.
 - On – duty leave is granted to principal investigator in order to take up related work in outside agencies/ laboratories
 - Inter-departmental sharing of resources (Equipment, space software and expertise) is facilitated.
 - Full autonomy is granted to the principal investigator to carry out the project as per the stipulations of the funding agency.
 - Open access to library and digital resources is offered.
 - 24x7 open internet access is made available to the faculty and students.
 - The management also facilitates timely submission of audited statement of account and utilization certificates for yearly submission of project reports.
 - RP Cell offers timely help and guidance for the on-going projects.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The following efforts are made by the Institution in developing scientific temper and research culture and aptitude among the students :

- Facilities are provided for doing research projects inside the campus.
- Permissions are given to undertake projects and internship in reputed government & private organizations.
- Students are motivated to attend and present papers in intra-collegiate technical events as well as publish papers in standard national and international journals.

- Students interact with Professors/ Eminent Academician from institution of repute.
- Industrial visits are organized.
- Students are encouraged for implant training/ summer training.
- The students are encouraged to participate in technical events and competitions at state and national level.
- The Institute provides financial assistance and technical guidance to the selected projects and novel concepts.
- The members of RP cell calls and evaluates the proposals and the grant in aid is provides as per the availability of the funds.

Table 3.1.4 : Details of financial support provided to students' projects in last two years

Sr.No.	Title of the Project	Financial Assistance	Year
1	GO-KART	Rs. 1,47,400	2015-16
2	GO-KART	Rs. 1,14,368	2014-15

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

Guiding student research :

- Almost all the faculty members are involved in guiding the students (UG and PG) for their research activities through major projects.

Leading Research Projects :

- Some of the faculty members are assigned research teams of students in their selected research area of interests.

Individual Research Activities:

- Faculty members in the institute are actively engaged in research in their respective domains.

Table 3.1.5 : Details of Faculty Involved in Active Research

Department	Doctorate Faculty	Major Areas of Research
Civil Engg	4	Structural Engg, Environment Engg
Computer Sci & Engg	3	Artificial Intelligence, Computer Network & Security, Data Base
Elect. & Tele. Engg	5	Bio-medical, Power Electronics, LIC, VLSI Image Processing, Parallel Computing, Wireless Networking, Embeded System
Information Tech.	3	Database, Network Security
Mechanical Engg	13	Thermal Engg, Production Engg, Acoustics, CAD/CAM, Design, Ergonomics
First Year Engg	11	Physics, Chemistry, Mathematics

3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

The following programs were organized by RP Cell in last two years:

- Two days workshop on “Creating Awareness about Research and Funding Agencies”, by Dr. G.N. Wankhade, Prof. & Head, Department of Zoology, SGBAU, Amravati, 9-10 December 2014.
- One day workshop on “Research Opportunities at IIT Madras” by Dr. Sangwai, IIT, Madras, 17 March 2015.
- Expert lecture on “Introduction to Patents” by Adv. Swapnil Gawande, Advisor & Attorney for IPR, 5/09/2015.
- Two week ISTE STTP on “Introduction to Design of Algorithms” conducted by IIT, Kharagpur through video conferencing, 27th April to 30th May 2015.
- Open Source Technologies for Engineering Applications and Research by Dr. G.R. Bamnote, PRMIT&R at ISTE sponsored STTP at COET, Akola, 7-17 December 2015.
- Advance Methodologies for Teaching and Learning process by Dr. G.R. Bamnote, PRMIT&R at ISTE sponsored STTP, Jawaharlal Darda Institute of Engg. & Tech. Yavatamal, 7-11 December 2015.
- A series of lectures by Dr. S.V. Bansod on “Fundamentals of Research Methodology” for students and staff.
- One day workshop on “Patent Filing Process” by Adv. Swapnil Gawande, Advisor & Attorney for IPR, 2/01/2016.
- Participated in MSME Epo-2016, 21-22 February 2016.

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

Table 3.1.7 : Details of prioritized research areas & expertise available with Institute

S. No.	Prioritized Research Areas	Name of Faculty	Faculty Expertise
Department of Civil Engineering			
1	Environmental Engineering	Dr. P. A. Kadu	Waste water treatment by biological method.
2	Structural Engineering	Dr. P. S. Pajgade	Earthquake resistant design of structures
3	Environmental Engineering	Dr. N. W. Ingole	Process development for treatment of water and waste water. Phytoremediation technology.
4	Structural Engineering	Dr. N. P. Kataria	Earthquake resistant design of structures, Base Isolation and vibration Control.

Department of Computer Science and Engineering			
1	Computer Science & Engineering	Dr. G.R. Bamnote	Databases and Computer Network
2	Computer Science & Engineering	Dr. A.S. Alvi	Artificial Intelligence & Intelligent Systems
3	Computer Science & Engineering	Dr. M.A. Pund	Artificial Intelligence & e-Learning Systems
Department of Electronics and Telecommunication Engineering			
1	Bio-medical signal processing	Dr. D. T. Ingole	Bio-medical engineering and electrical engineering
2	Power electronics, integrated circuits	Dr. S. W. Mohod	Power electronics, renewable energy, Analog electronics
3	Controllability of linear control system.	Dr. S. M. Deshmukh	Control system and communication engineering
4	Digital Signal Processing	Dr. P. V. Ingole	Image Processing
5	Analog and digital circuits	Prof. V. U. Kale	Linear ICs, power electronics and digital circuits
6	Digital Signal Processing	Prof. V. R. Raut	Analog and digital circuit design and VLSI design, Signal processing
7	Parallel computing	Prof. S. V. Pattalwar	Electromagnetic fields and Micro wave, computer architecture.
8	Wireless networking and medical image processing	Prof. C. N. Deshmukh	Wireless communication, digital image processing and signal processing
9	Digital Signal Processing	Dr. Nikoo Khalsa	Image Processing
10	Embedded system design	Prof. B. P. Fuladi	VLSI, Embedded system design
11	Signal Processing	Prof. A. B. Dhembhare	Signal processing and digital communication
12	Controllability of system	Prof. R. G. Hirulkar	Control system and image processing
Department of Mechanical Engineering			
1	Energy intervention planning using locally available biofuels for Tribal region	Dr. N. W. Kale	Thermal Engg
2	Critical analysis of biogas plant for sustainable development of rural area	Dr. S. S. Deshmukh	Thermal Engg
3	Evaluation of existing seeds on the basis of Ergonomic criteria	Dr. S. V. Bansod	Ergonomics
4	Production Engineering	Dr. D. S. Ingole	Rapid Prototyping, CAD/CAM
5	Investigation of Cryogenic treatment on tool life of HSS tool	Dr. A. D. Shirbhate	Design Engg
6	Ergonomic study of animal drawn weeder	Dr. A. U. Awate	Ergonomics

7	Process Modification in Oxidation Ditch by Optimal Design of Rotors for Low Cost Treatment in Rural Areas	Dr. S. B. Thakre	Thermal Engg
8	A Custom bone implementation using Rapid Prototyping	Dr. T. R. Deshmukh	Rapid Prototyping
9	Prediction of Traffic noise pollution at major crossing and its Effect on community health with realistic measures for the control	Dr. C. R. Patil	Sound Energy
10	Production Engineering & Management	Dr. R. A. Kubde	Supply Chain Management & Total Quality Management
11	Design of Biogas plant to digest combination of varieties of biodegradable waste	Dr. N. A. Wankhade	Thermal Engg
12	Vegetable oils as prospective energy source for rural area	Dr. S. J. Deshmukh	Thermal Engg
13	Optimization of tools for CNC Machine	Dr. N. S. Pohokar	Production Engg
Department of Information Technology			
1	Network Security	Prof. A. P. Bodkhe	Electronics and Telecom. Engineering
2	Theory of Computation, Operating System	Dr. Ms. V. M. Deshmukh	Computer Science & Engineering
3	Wireless Communication	Prof. S. V. Dhopte	Electronics and Telecom. Engineering
4	Digital Electronics	Prof. S. S. Kulkarni	Electronics and Telecom. Engineering
5	Software Engineering	Dr. S. R. Gupta	Computer Science & Engineering
Department of First Year Engineering			
1	Physics	Dr. R.S. Bobade	Conducting Polymers
2	Physics	Dr. N.B. Ingale	Luminiscence
3	Physics	Ms. M.S. Bhende	Polymer nano composites
4	Physics	Ms. S.S. Deshmukh	Polymer micro particles
5	Mathematics	Dr. P.R. Deshmukh	Fractional Laplace Transform
6	Mathematics	Dr. R.D. Taywade	Fractional Hankel Transform
7	Mathematics	Ms. D.V. Kapase	Dark Energy
8	Mathematics	Ms. P.B. Muarade	Cosmology & Relativity
9	Chemistry	Dr.P.D. Sawalakhe	Biophysical, Environmental, Ultrasonics
10	Chemistry	Dr.K.D. Umale	Interaction of biomolecules with metal ions and organic synthesis

11	Chemistry	Dr.Y.S. Manjare	Solid State & Supermolucular Chemistry
12	Chemistry	Dr.S.S. Sonare	Organic Synthesis
13	Mechanical Engineering	Dr.S.P. Kulkarni	Ergonomics, Production & Manufacturing Process

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

- The various departments organize seminars, STTPs and workshops on regular basis. One of the major objectives of organizing such STTPs, seminars and workshops is to bring the eminent academicians and scientists to the Institute to encourage and motivate faculty and students for research and to have the healthy discussion over the pertaining issues.

The following eminent persons visited to the Institute during this year :

- Dr. Dinesh Keskar, Vice President of Boing and President of Boing-Asia, 2016
- Dr. Anil Kakodkar, former Chairman of Atomic Energy Commission, Govt. of India and Chairman of Rajiv Gandhi Science and Technology Commission, 2016
- ISTE President, Mr. Pratap Singh Desai, 2016
- Dr. Girish Pofali, Principal Scientist, NEERI, Nagpur, 2016
- Mr. Shashikant Choudhari, CEO, Nagpur Angels, 2016
- Er. Kiran Gitte, Collector, Amravati, 2016
- Dr. W.N. Gade, Vice-Chancellor, Savitribai Phule Pune University, Pune, 2016.
- Dr. M. G. Chandekar, Vice-Chancellor, SGB Amravati University, Amravati, 2016
- Dr. Mohan Khedkar, Vice-Chancellor, SGB Amravati University, Amravati, 2016
- DR. A.A. Ghatol, former Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere, 2016
- Mr. Kesari Patil, Founder Chairman of Kesari Tours & Travels, Mumbai, 2016
- Dr. S. V. Sapkal, Vice-Chancellor, RTM Nagpur University, Nagpur, 2015

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

- In the last five years, none of the faculty members have availed the sabbatical leave for the purpose of research. The research policies have been formulated for persons interested in availing the sabbatical leave. However around 25 members are pursuing their doctoral research on part time basis. The Institute provides academic leave facility to the faculty members who attend programs and courses at other organizations. This helps the faculty members to interact with researchers and academicians and boost their interest towards research. The research culture is imparted to students. The Institute has established a Research Promotion Cell in 2014-15 to encourage and provide a common platform for the

researchers. RP cell promotes and facilitates research activity, and helps in providing the technical and financial support.

- No faculty has utilized the sabbatical leave for the research activities. Whereas, the following faculty were granted the sabbatical leave for other purposes.

Table 3.1.9 : List of Faculty Members Availing Sabbatical Leaves

S.No.	Name of Faculty	Department to which related:	Period of Sabbatical Leave	Purpose of Sabbatical Leave
1.	Dr. Shashank B. Thakare	Mechanical Engineering	04/08/2009 To 23/06/2011	Principal at Dr. Sau. KGIET, Darapur-Amravati
2.	Dr. Samir J. Deshmukh	Mechanical Engineering	01/04/2011 To 31/03/2012	Principal, at R. S. COE, Buldhana
3.	Dr. Sharad W. Mohod	Electronics and Telecommunication Engineering	20/12/2011 To 19/12/2012	Professor, at PRMCEAM, Badnera-Amravati
4.	Mrs. Jaya N. Ingole	Electronics and Telecommunication Engineering	15/06/2011 To 14/06/2012	Asso. Prof. at Priyadarshini Indira Gandhi COE, Nagpur

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land).

The Institute is putting its efforts in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community by taking initiatives like :

- Significant contributions made by staff and students in completing research projects, major achievements and publication details are printed and posted in the college notice boards
- Students have been encouraged and sponsored to participate in conferences for presenting their work.
- Design contests being conducted by various organizations are attended by students in presenting their work.
- Motivating and guiding students to involve in various society related projects to improve quality of life.
- Organizing annual exhibition of projects undertaken by the students.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

- In the beginning of every academic year, the provision of about 0.75 % of the Institute budget is made for research activity.
- The major heads of expenditure of research are on the purchase of equipment, books, and journals and for organizing workshops, training programmes, seminars and conferences.
- Faculty members are provided with registration charges, travel expenditures and incentives for their publications in reputed journals.

Table 3.2.1 : Budget for Research in Last Three Years

Item	Budgeted in 2016-2017	Actual Expenditure 2016-17	Budgeted in 2015-2016	Actual Expenditure 2015-16	Budgeted in 2014-2015	Actual Expenditure 2014-15
Research & Development	30,00,000	--	30,00,000	5,75,000	22,00,000	10,00,000

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

- The Institute does not provide any seed money to the faculty. Whereas, The Institute purchases all the required equipment and consumables through proper procedure. Any faculty member can suggest or ask for the purchase of device/equipment/consumable required for his research or laboratory. Institute provides sponsorship for faculty members for attending conferences, workshops, seminars and faculty development programmes.
- The process of purchasing the essential material is followed as and when necessary.

3.2.3 What are the financial provisions made available to support research projects by students?

- Full or partial financial support is made available to the students to develop innovative projects as and when required. Maximum funding given for student's single innovative project is Rs. 1, 47,400.
- The financial assistance is provided to the students participating in project contests across the country.
- Institute makes the provision of financial support to the Final Year Students projects. There is no limit of support for the outstanding concepts and projects of the students.

Table 3.2.3 : Details of Financial Support for Student Research Projects

Name of Student's Research Project	Year	Name of Project	Amount Given (Rs.)
Students' research projects	2014-15	GO-KART	1,14,368
Students' research projects	2015-16	GO-KART	1,47,400

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

Table 3.2.4 : Details of inter-disciplinary research work

S. No.	Title of inter-disciplinary Research	Departments involved in Research	Names of Faculty Members	Details of Successful Endeavors & Challenges Faced
1.	Automation in Braille Teaching – Shiksha	Electronics and Telecommunication, Computer Science & Engineering	Prof. Dr. S. M. Deshmukh	Student has created Braille reader and keyboard, student collected require data from blind students and their teachers.
2.	TALK- An Innovative AAC Device for The People Having Developmental Disability	Electronics and Telecommunication, Biomedical Engineering	Prof. S. V. Pattalwar	Student designed a device which uses Morse code to interact with person and convert it in to speech. Student studied the requirements of the paralyzed person and design of a cost effective audio storage and playback system.
3.	Automatic Saline Flow Rate Monitoring and Controlling System	Electronics and Telecommunication, Biomedical Engineering	Prof. S. V. Pattalwar	Student created flow control system. They tried different controlling algorithm to design a control system to get precise flow rate and to minimize the response time of the system (time taken by system to achieve required flow rate).
4.	Automated Rationing for Public Distribution System	Electronics and Telecommunication, Computer Science & Engineering, Mechanical Engineering	Prof. C. N. Deshmukh	Student design a rationing distribution system student learn computer networking and data encryption and decryption.
5.	Systematic Approach of Knuckle System Implementation for Human Identification	Electronics and Telecommunication, Biomedical Engineering	Prof. V. U. Kale	Student developed an algorithm for finger knuckle identification
6.	Character Revealing Handwriting Analysis Based on	Electronics and Telecommunication, Computer Science & Engineering	Prof. N. N. Khalsa	Student developed an algorithm for Handwriting Analysis student also created database of handwriting from people with similar or different characters.

	Segmentation Method using Support Vector Machine			
7.	Security System for Motorcycle with Value Added Features	Electronics and Telecommunication, Mechanical Engineering	Prof. A. S. Patharkar	Student created a biometric security system for motorcycle student studied the signals, wiring and specifications of the motorcycle.
8	Microcontroller based tung operated wheelchair management system.	Electronics and Telecommunication, Biomedical Engineering	Prof. A. P. Bodkhe	Student designed a system which read signals from motion of and control the wheelchair
9	Implementation of DIP based wireless gesture controlled robotic arm	Electronics and Telecommunication, Computer Science & Engineering, Mechanical Engineering	Dr. S. W. Mohod	Student developed a robot which can be controlled by gesture
10	Rapid prototyping in pattern making	1) CAD/CAM center - VNIT Nagpur 2) Jadhao steel alloys Amravati 3) Mechanical Engg. Department, PRMIT&R, Badnera	1. Dr. A. M. Kuthe 2. Mr. Hemant Jadhao 3. Dr. D. S. Ingole	1) Patent is granted based upon research work 2) A grant of 18 lakhs has been received from AICTE under MODROBS Scheme for technology transfer approach
11	Process modification in oxidation Ditch for waste water treatment for rural area	Mechanical Engg. Department PRMIT&R, Badnera	1. Dr. L. B. Bhuyar 2. Dr. S. B. Thakre 3. Dr. Nitin Ingole 4. Dr. S. J. Deshmukh	For converting various environmental engineering aspects in actual practice, basic aspects studied in depth.
12	Study of CPFR development and application in supply chain management	1) Mechanical Engg. Department PRMIT&R, Badnera 2) Local industry (Gharkul Masala Amravati)	1. Dr. S. V. Bansod 2. Dr. Atul Borade 3. Mr. Warangaonkar (Owner, Gharkul industry)	1) Develop computer programming for sales forecasting 2) Since it is an industrial survey project getting feedback from various industries was a challenging task
13	Prediction Of User Sentiments From Facial Expression	Computer Science & Engineering Biomedical Engineering	Dr.A.S.Alvi	students have implemented an application for prediction of user sentiments through the emotions
14	Development Of Patient Profile System Software Used In Dispensaries	Computer Science & Engineering Biomedical Engineering	Prof. N.S.Khachane	students have implimented an application which shows the report of all biochemistry test
15	Medical Expert Reminder andDisease	Computer Science & Engineering Biomedical Engineering	Prof.P.K.Agrawal	students have implemented application which consist of expert advice recommendation feature that

	Recommendation System			will guide & provide information of the diseases
16	Criminal Face detection using Templates	Computer Science & Engineering Biomedical Engineering	Prof.Ms.D.H.Deshmukh	Students has created application in matlab with different parameters of face and evaluated the facial expression

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

- Institute is well focused about the maximum utilization of academic and research infrastructure by faculty and students.
- The Institute operates as a facilitator by allowing usage of various equipment and research facilities unrestrictedly in time and space domain, without fear of damage of equipment and consequent penalties to the users.
- Resources required for carrying out research work are made available on the website for information to both students and faculty members.
- The recognized Research labs are available in every department except MBA and MCA.
- Research Promotion Cell conducts review meeting once in every six months to monitor the resources required and resource utilization. The committee ensures that the resources in the department are made available in optimum for conduction of research.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

Table 3.2.6 : Details of grants received for developing research facilities :

S. No.	Year	Name of Coordinator	Name of Grant Received	Amount (Rs)
1	2015-16	Prof. S. V. Dhopte	IEI, KOLKATA	20,000
2	2015-16	Prof. S. V. Dhopte	IETE, NEW DELHI	10,000
3	2014-15	Dr. D.S. Ingole	AICTE MODROBS Grant	18,00,000
4	2012-13	Dr. A.U. Awate	AICTE EDC Grant	7,00,000
5	2012-13	Prof. S.V. Dhopte	AICTE FDP Grant	1,95,000
6	2012-13	Dr. D.T.Ingole	AICTE RPS Grant	10,43,000
7	2010-11	Dr. P.D. Sawalakhe	AICTE MODROBS Grant	5,50,000
8	2010-11	Dr. G.R. Bamnote	AICTE MODROBS Grant	5,00,000

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

- Faculty members are encouraged to visit research organizations and interact with eminent scientists in understanding the trends in research.
- Faculty members from various departments are encouraged to participate in international conferences conducted by leading organizations in India. The primary objective of this is to get networked and know the latest trends in research and funding opportunities.
- Based on the feedback from faculty members and funding agency requirements proposals are prepared, reviewed and submitted by Research Propmotion Cell.
- The Research Promotion Cell research committee regularly reviews the research progress work.

Table 3.2.7(a) : Details of Completed Projects & Grants Received in Last 4 Years

Nature of Project	Year	Title of the project	Name of funding	Total Grant		Status of
				Sanctioned	Received	
Major projects	2012-13	Predictive Model for Diabetes using Data Mining Techniques.	AICTE	10,43,000	10,43,000	Completed
Major Project	2012-13	Atomic Absorption Spectrophoto-meter	AICTE	4,10,000	5,50,000	Completed
Major Project	2012-13	High Volume Sampler, PEM-HVS-8	AICTE	86,769		
Major Project	2015-16	Rapid Prototyping : Technology Transfer Approach for Bio-medical and Industrial Applications	AICTE	1800000	14,40,000	On-going

Table 3.2.7 (b): Proposals Submitted to Defense R&D in Academic Year 2015-2016

Sr. No	Details of Proposals	Cost
1.	Evaluation of smart cities- Planing and designing guidelines for new smart cities in India (DRDO)	Rs.19,06,800
2.	Cost optimization of concrete pavement (DRDO)	Rs.24,03,300
3.	Evaluation of smart cities- Planing and Designing guidelines for new smart cities in India (WOS B)	Rs. 1,00,000
4.	Impact of harmful polluting gases on atmospheric O ₂ :CO ₂ level. (DRDO)	Rs.18,83,490

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

- Following are the Research facilities available to the students and research scholars within the campus :

Table 3.3.1 : Research facilities available to the students and research scholars

Sr. No.	Name of Research Laboratories	Major Research Facilities Available	Cost (Rs.)	No. of Research Scholars Registered
Civil Engineering				
1	Environmental Engineering Lab	Remi BOD Incubator	178425	9
		COD vario-measurement Photo meter	199322	
		Electronic Microscope	122063	
		Digital Weighing Balance	68094	
2	Structural Engineering Lab	Ultrasonic Concrete Tester	283219	
		Concrete Test Hammer	90844	
		Vibration Table	63000	
		Accelerated Curing Tank	190200	
		Tempo Laboratory Precision Oven, High Temp. 400 C	137046	
	Tempo Muffle Furnace	92163		
Electronics and Telecommunication Engineering				
1	Communication Engg. Lab	1. AMITEC make Microwave integrated circuit training lab with 0.2-4 GHz PLL Microwave generator model MiC - 40 2. 16Qam Transmitter & Receiver Training system VLSI Board 3. 40 MHz 2 channel 4 trace analog oscilloscope 4. ST2502 Advance Fiber Optic Trainer 5. Caddo 825 (Advance) Techlab 25 MHz two channel 4 trace microcontroller based osc. with 10 MHz function Generator Sine, Square, Triangle, pulsse, ramp DSB std., DSB balance, FM Output, Fixed Power Supply, +/- 12 V/250 mA, 5V/1A, 4.5 Digit Mult., 20 MHz frequency counter or digital volt meter or curve tracer or logic scope. 6. 1.1 GHz Spectrum Analyser SA 3011 7. MSK Modulator & Demodulator Kit 8. DX 1102, 60 MHz 1GS a/s Storage Oscilloscope	552709.03	7
2	Electronic Workshop	1. 60 MHz 2 channel 4 trace analog oscilloscope 2. DX-1102, 60 MHz, 1GS a/s 7" Color Display Digital Storage Oscilloscope. 3. 150 MHz storage Oscilloscope, 36150 DC	136395	
3	Power Electronics	1. 20 MHz 2 channel 4 trace analog oscilloscope 2. DX-1102, 60 MHz, 1GS a/s 7" Color Display Digital Storage Oscilloscope.	51898	
4	Electronics Devices & Circuits	1. 40MHz 2 channel 4 trace analog oscilloscope (Model No. 3804-06) 2. DX-1102, 60MHz, 1GS a / s, 7" Colour display Digital storage oscilloscope.	57897	
5	DSP and VLSI Lab	1. VLSI Hardware FPGA/CPLD kits along with software supports: Universal Multi Vendor Trainer Board 2. MICROWIND package includes DSCH3: schematic editor & simulator, PIC 16 f Modeler,	827488	

		Verilog Compiler, SPICE extractor. MICROWIND 3: nano Lambda, VirtuaosoFAC, MEM sim, PROthum, PROTutor (Rates per 1 user, 5 user, 10 user resp.) 3. DSP 6713 DSP Lab Version 2.0 4. TMS320C6713 DSP Starter kit Model No. TMDSD SK 6713 5. Titan-II ARM7 Development Kit 6. Hercules Board-FPGA with ARM		
6	PG/Research LAB	1. Unified Technology Learning Platform Kits (20 Nos.) 2. Digital Storage oscilloscope 100 MHz, Bandwidth 2 channel DSO.	743389	
Computer Science and Engineering				
1	Research LAB	HP Dual Core, Intel Motherboard, 4 GB RAM, 500 GB HDD, 18.5 LED Screen, keyboard, Mouse	557,000	9 (17 Awarded)
2	e-Yantra Lab	Fire Bird V 2560	71996	
		Spark V Robot	22495	
		Fire Bird V P89V51RD2 adapter card	11812.5	
		Fire Bird V LPC2148 adapter card	16495	
		Zigbee Modules 100 m range	14990	
		Zigbee Modules Adapter	10495	
		Metal-gear Servo Motors	9900	
		Servo Motor Based Gripper kit for the Fire Bird V robot	5600	
		Sharp GP2Y0A21YK0F infrared range sensor (10cm to 80 cm)	7490	
		Gyroscope, accelerometer and GPS interfacing module for the robot	1600	
		GPS receiver	2798	
		Two Axis Camera pod with wireless camera	13860	
L3G4200 3 axis digital gyroscope	2998			
Sharp GP2Y0A710K0F infrared range sensor (100cm to 500 cm)	4998			
Information Technology				
1	Information Technology	Intel Core i3 Processor, 3.3 GHz, Motherboard 61H, 4B RAM, 250 GB HD, 18.5 LED TFT (10 Nos.) + HP Laser Jet 1020 (01 No.)	366000	1
First Year Engineering				
1	Chemistry Laboratory	1. Quick Fit Assemblies including condensers, RB flask, Sintered glass crucible, Filter flask etc.	10,000	1
		2. LPG gas and Hot plates	4000	
		3. Refrigerator	10500	
		4. Melting point Apparatus	3000	
		5. Atomic Absorption Spectrophotometer	410000	
		6. Ultrasonic Interferometer	35000	
		7. pH meter	9760	
		8. Turbidity Meter	6760	
		9. Conductivity Meter	11810	
		10. High Volume Sampler	110000	
		11. Distilled water assembly	22000	
		12. Electric Oven	5000	
		13. Muffle Furnace	10000	
		14. Electronic Balance	45000	
		15. Thermostatic Water bath	6000	
		16. Water and Soil Analysis Kit	18500	

Mechanical Engineering			
1	Refrigeration and Air-Conditioning Lab	Almech Refrigeration Unit	61523
		1.5 T window type Air Conditioner	74200
		Wet & Dry bulb thermometers	96429
		Experimental Equipments mini Ice plant Tutor capacity 50 kg. per day.	83600
2	CAD/CAM Lab	MTAB-DENFORD Model XL-TURN CNC Slant Bed Lathe	667000
		Hexapod Robotics Research Platform (Fire Bird V ATMEGA 2560)	54562
		Image Analysis Software, Inverted Triangular Microscope, Digital Camera, Laptop (Lenovo)	132486
		CNC Milling Trainer	562050
3	Measurement Systems Lab	Rapid Prototyping – 3D Printer	1800000
		INSCON:Hotwire/Anemometer,Duel Chanel System	94043
		Uniflow Oil Power Hydraulic trainer kit	107433
		PLC with Mechatronic Interfacing Modules	145000.00
		Electro-pneumatic trainer with regulator, four actuators.	75000.00
4	Heat Transfer Lab	1.Thermocouples-a 2. NPL Designed double glass distillation Apparatus capacity 5 liters- 3.Meta stand for above- 4.Pressure Transducers 5.Heat Transfer through lagged pipe	59629
5	Thermal Engg Lab	i.Diesel Engine with Mech.Test Rig.5HP,4stroke,1500 rpm.300mm,Dia Rope break arrangement ii.Air Compressor Test Rig,2stage; suitable for 7kg 7.5HP motor.	52510
		Multicylinder Petrol Engine Test Rig with Hydraulic Dynamometer	58957
		Ruston Model 4ydak Diesel Generating Set developing 40 KVA at NTP condition with control panel	169670
		MEXA-324GB,Horiba Automotive CO/HC Exhaust Gas Analyses with standard Accessories to operate on 230 v.50HZ Sr.No.GB 30587	60750
		ED-1949, Nissalco Diesel Smoke Meter, with standard accessories to operate on 230v 50 Hz, S.N.ED 20755	54750
		Engine Indicator with engine test setup	257650
		Computerized 1 Cylinder 4 stroke diesel Engine (Kirloskar TV1) Test Rig	497250
6	Metrology & Metallurgy Lab	1.ISOMET Tool maker-Microscope small 2. Accessories-centre clamps,lense-100x Collect-holding device photocopying attachment,veeblock & lamp.	80342

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3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

- The Research Promotion committee meets regularly with HODs and discusses about the research needs and achievements and also assesses infrastructure/facility requirements. The necessary requirements are projected in annual budget for management approval and procurement over the session. In addition, other necessities like books, e-journals, up gradation of internet bandwidth are also made available on need basis on the request of user research community.
- The research proposals are prepared by faculty and students and Research Promotion Cell submits them to various funding agencies.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes', what are the instruments / facilities created during the last four years.

- Yes, the Institute has received following special grants from AICTE for developing research facilities like procurement of special purpose equipment and machines.

Table 3.3.3 : Grants Received & Equipment procured to enhance research

Sr.No	Name of Department	Name of Equipment/ Machine	Cost of Equipment Rs.	Year of Purchase	Name of Scheme & Funding Agency	Name of Coordinator
1	Mechanical Engg	uPrint 3D Printer Rapid Prototyping Machine	21,41,184	2016	AICTE MODROBS	Dr.D.S. Ingole
2	Computer Science & Engg	HP Computer Server	Server (03) HP Porliant DL 380	2013	AICTE RPS	Dr. D.T. Ingole
3	Computer Science & Engg	Lenovo Desktops (20) Server (01) HP ML 110	5,10,000	2012	AICTE MODROBS	Dr. G.R. Bamnote
4	First Year Engg (Chemistry)	Atomic Absorption Spectrophotometer	4,10,000	2012	AICTE MODROBS	Dr. P.D. Sawalakhe
5	First Year Engg (Chemistry)	High Volume Sampler, PEM-HVS-8	86,769	2012	AICTE MODROBS	Dr. P.D. Sawalakhe

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

- Faculty and students are free to conduct their research activities inside or outside the campus. The Institute always encourages and extends full support to the researchers.
- It also helps researchers in seeking permissions in industries and other research organizations to conduct their smooth research.

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

- Library of the Institute is fully computerized by automating the issue of books with bar code reader. The Institute subscribes most of the major technical journals including IEEE, ASME, ASTM, JGATE, Science Direct, etc. useful for researchers from various disciplines. NPTEL digital contents are also available on various subjects.
- Besides the main library, there are small libraries in each department with requisite volume of books for easy access for faculties and research scholars.
- On the special request from the research scholars, books required for research are made available and the library facilities can be availed for extended hours.

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

Table 3.3.6 : Collaborative research facilities developed/ created (For ex. Laboratories, library, instruments, computers, new technology, etc.)

Dept.	S. No.	Collaborative Research Facilities Developed	Details of Facilities Developed/ Created	Collaborating Agency	Remark
IT	1	Research Lab	Research Lab	SGB Amravati University	
	2	Spoken Tutorial	Systems with Headphones	IIT Bombay	
EXTC	1	Laboratory	Wipro Mission 10X Unified technology learning platform (UTLP) Laboratory	Wipro Ltd. Under Mission 10X project	From last 2 years students are working on the kit and utilizing it to develop successful projects for Ex. 1.“Object tracking system using real time image processing” 2.“sensor add-on board UTLP kit”
Mech	1	New technology	Coordinate Measuring Machine	Jadhao Icons, MIDC Amravati	

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- * Patents obtained and filed (process and product)
- * Original research contributing to product improvement
- * Research studies or surveys benefiting the community or improving the services
- * Research inputs contributing to new initiatives and social development

Following table gives the major research achievements of the faculty and students:

Table 3.4.1(a) : Major research achievements of the Faculty

S. No.	Name of Faculty(s)	Title of the Patent	Patent No./ Registration No. (if filed)	Research contributing to product development/improvement	Research studies or surveys benefiting community or improving the services	Research Contribution for New Initiatives & Social Development
1	Bansod S.V. Bodkhe A.P.	Method, device and system for the fractional energy measurement with existing energy meter with blinking LED, having a continuous digital display	Patent no. 213930 Date of Grant:- 24/06/2007	Yes		
2	Ingole D.S.	Design of method for manufacturing of small cast iron dies with sand casting	Patent no. 253363 Date of Grant:- 16/07/2012	Yes	Useful for investment casting, sand casting and plastic molding processes	Useful in bio-medical application to fabricate implants
3	Ingole N.W. & Ingole Jaya N.	Method of extracting carotene concentrate from water hyacinth	3407/MUM/2010A 18/03/2011	Yes		
4	Ingole N.W. & Gulhane M.L.	Artificial tidal wetland system for treatment of domestic wastewater	737/MUM/2015A 10/04/2015	Yes		
5	Ingole N.W. & Gulhane M.L.	Rotating biological contactors fitted with horizontal and vertical shaft	2133/MUM/2015 05/06/2015	Yes		
6	Ingole N.W. & Gulhane M.L.	Hybrid moving bed biofilm reactor	736/MUM/2015A 10/04/2015	Yes		
7	Harle S. M. & Pajgade P.S.	Technique to use of perforated geocells in the concrete pavements	3258/MUM/2015 11/09/2015	Yes	Yes	

8	Ingole D.S.	Design of domestic water heater	2552/MUM/2014A 29/08/2014			
9	Harle S. M. & Pajgade P.S.	Technique to use of corrugated polycarbonate sheets in the short paneled Concrete pavements	3258/MUM/2015 11/09/2015	Yes	Yes	
10	Harle S. M. & Pajgade P.S.	Use of stapler to join the different Cells in Cell filled concrete pavement	App no 201621018397 dated 28/05/2016	Yes	Yes	
11	Harle S. M. & Pajgade P.S.	Technique to use of different sizes of aggregate in cell filled concrete	App no 201621018396 Dt. 28/05/2016		Yes	
12	Laxmikant Anil Hundikar	Winged bullet with locking mechanism	09/06/2016	Yes		
13	Dr. D. T Ingole	Zigbee based color transformation for blind in wireless network		Product development	For blind people	This will help blind people.
14	Ingole N.W. & Gulhane M.L.	Wastewater Treatment by using rotary drum reactor	2132/MUM/2015A 06/02/2015	Product improvement	Yes	-
15	Dr. S. V. Bansod	Automation of specific gravity separating machine	226/MUM/2015, 28/11/2015	Easy method for effective sorting of good quality seeds	-	Quality of seeds can lead to more agriculture output
16	Dr. S. B. Thakre	Manipulation of control points for generation of shadowless surfaces in CAD	2151/MUM/2014	Improvement	Research study and improving the service	

Table 3.4.1(b) : Major research achievements of Students

S. No.	Name of Student(s)	Title of Patent	Patent No./	Research contributing to product development/ improvement	Research studies or surveys benefiting community or improving the services	Research Contribution for New Initiatives & Social Development
Department of Mechanical Engineering						
1	Karansagar Vikas Giradkar Anand Sanjay Gahukar Saurabh Arun Deshmukh Pranav Damodar Rao Kalbande Aniket Anil Deshmukh Dnyaneshwar Narahari Kakde	Under Water Tank Cleaning Machine	1710-MUM-2013	Under Water Tank Cleaning Machine is an improvement of existing cleaning machine which have some drawbacks.	It gives the speedy cleaning action in minimum time consumption.	Useful for senior citizens

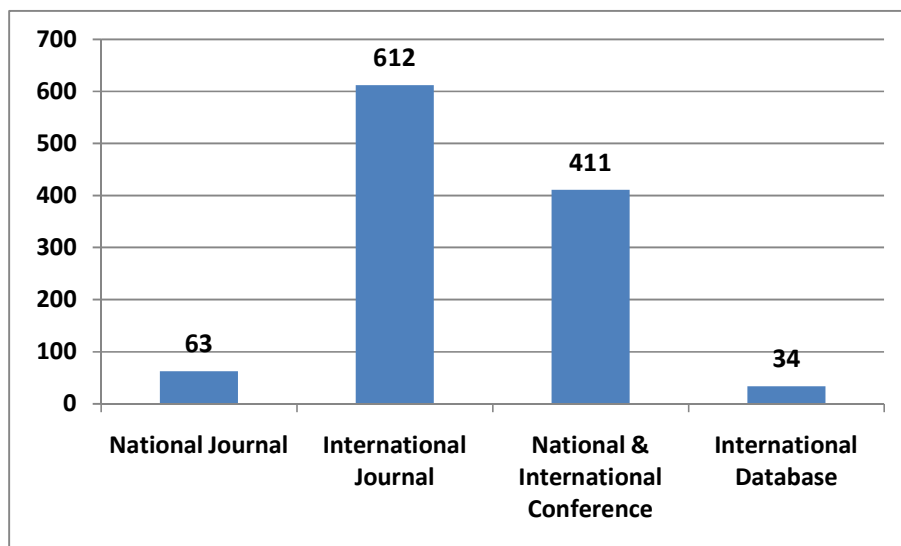
2	Rahul Chandrabhan Nawkhare	Thermal Insulated Air Space Wall.	IPR/FA/14010/2014	Thermal Insulated air space wall is an improvement of existing structure of wall which reduces the heat gain/loss through wall.	It gives lifelong thermal performance and low heat transfer rate.	It is cost effective and energy efficient and suitable for residential and industrial building.
	Anshul Radheshyam Patle					

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

- No, the Institution does not publish any research journal.

3.4.3 Give details of publications by the faculty and students:

- * Publication per faculty
- * Number of papers published by faculty and students in peer reviewed journals (national / international)
- * Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- * Monographs
- * Chapter in Books
- * Books Edited
- * Books with ISBN/ISSN numbers with details of publishers
- * Citation Index
- * SNIP
- * SJR
- * Impact factor
- * h-index

Details of Publications in last Three Years by Faculty Members :**Figure 3.4.3 : Publications by faculty (Last 3 Years)****Table 3.4.3(a) : Publications by the faculty in last Three years**

S. No.	Name of Faculty	No. of Papers published in National Journals	No. of Papers published in International Journals	No. of Papers published in National & International Conferences	No. of Papers published listed in International Database, like Web of Science, Scopus, EBSCO host, Google Scholar, etc.	Specify out of following, if applicable : 1. Monographs 2. Chapter in Books 3. Books Edited 4. Book Published, (ISBN/ISSN, Pub.) 5. Citation Index 6. SNIP 7. SJR 8. Impact Factor 9. h-index
Department of Civil Engineering						
1	Dr. P. A. Kadu	0	7	3	-	-
2	A.R.Mundhada	2	12	7	-	-
3	Dr. P.S.Pajgade	12	10	6	-	-
4	Dr. N. W. Ingole	1	16	3	-	-
5	Prof. M. V. Mohod	2	8	0	-	-
6	Prof. M. A. Banarase	0	4	3	-	-
7	Prof. Mohd. Shahezad	1	5	3	-	-
8	Prof. Riyaz Sameer	1	2	2	-	-
9	Prof. S. D. Malkhede	0	1	0	-	-
10	Prof. S. S. Vinchurkar	2	1	0	-	-
11	Prof. H. P. Nistane	0	1	0	-	-
12	Prof. Ms. S. O. Rathi	0	1	0	-	-
13	Prof. Ms. S. C. Sagane	0	1	0	-	-
14	Prof. A. S. Deshmukh	0	2	3	-	-
15	Prof. S. R. Bhuskade	0	2	2	-	-
16	Prof. Ms. N. W. Chorey	0	1	0	-	-
17	Prof. Ms. R. S. Adhau	0	1	0	-	-
18	Prof. R. M. Wanare	0	1	0	-	-
19	Prof. V. K. Revekar	0	1	0	-	-
20	Prof. Ms. N. A. Karwa	1	2	1	-	-
21	Prof. Ms. P. G. Yadav	0	1	0	-	-

22	Prof. P. M. Bagade	0	2	0	-	-
23	Prof. P. V. Kolhe	2	0	0	-	-
24	Dr. N. P. Kataria	0	5	2	-	-
25	Prof. P.V. Raut	0	1	0	-	-
26	Prof. S. D. Dhengle	0	2	0	-	-
27	Prof. N. S. Agrawal	0	2	0	-	-
28	Prof. R.R. Gupta	0	1	0	-	-
Department of Electronics and Telecommunication Engineering						
1	Dr. S. M. Deshmukh		1	1		Citation Index = 9
2	Mrs. M. D. Ingole		2	1		
3	V. U. Kale		4	4		
4	Dr. S. W. Mohod		3	3		
5	C. N. Deshmukh		3	3		
6	Dr. .N. N. Khalsa		1	1		
7	R. G. Hirulkar			4		
8	N. S. Thakare		1	1		
9	B. P. Fuladi		1	1		
10	S. A. Nirmal		2	1		
11	A.B. Dhembare		1	1		
12	A.S. Utane		2	2		
13	V.J.Babrekar		1	2		
14	Y.N.Thakare		2	2		
15	S. G. Kavitkar		1	1		
16	M.V. Tiwari		4	4		
17	G. D. Patil		1	1		
18	A.I.Rokade		2	2		
19	R.A.Wakode		1	1		
20	Mrs.N.P.Dhole		1			
21	Ms.A.P.Chaudhary		2	2		
22	Ms.P.R.Lawhale		1	1		
23	Ms.M.M.Soni		1	1		
24	K.S.Belsare		2	1		
25	P.R.Narkhede		1	1		
26	M.K.Shriwas		1	1		
27	S.K.Latad		2			
28	G. G. Patil		2	2		
Department of Computer Science and Engineering						
1	Prof. S. V. Pattalwar	0	12	3	-	-
2	Dr. G. R. Bamnote	0	46	22	-	-
3	Dr. M.A. Pund	0	10	4	-	-
4	Dr. A.S. Alvi	0	12	10	-	-
5	Prof. Ms. R. R. Tuteja	9	1	4	-	-
6	Prof. S. P. Akarte	6	13	4	-	-
7	Prof. Ms. S. W. Ahmed	7	4	9	-	-
8	Prof. S. S. Dandge	1	11	12	-	-
9	Prof. N. M. Tarbani	0	10	12	-	-
10	Prof. P. K. Agrawal	0	11	7	-	-
11	Prof. G. J. Sawale	0	5	6	-	-
12	Prof. A. A. Chaudhari	1	5	5	-	-
13	Prof. Ms. R. A. Kale	1	6	3	-	-
14	Prof. Ms. Y. S. Alone	0	6	3	-	-
15	Prof. Ms. P. P. Deshmukh	1	8	5	-	-
16	Prof. Ms. K. R. Hole	0	12	3	-	-
17	Prof. Ms. M. A. Deshmukh	1	6	2	-	-
18	Prof. Ms. R. A. Gulhane	0	10	5	-	-
19	Prof. Ms. V. S. Sakharkar	2	8	2	-	-
20	Prof. Ms. D. H. Deshmukh	0	6	2	-	-
21	Prof. Ms. P.B. Lohiya	0	9	2	-	-
22	Prof. S. V. Deshmukh	3	4	8	-	-
23	Prof. Ms. R. A. Meshram	1	9	8	-	-
24	Prof. C. M. Goswami	0	2	0	-	-
25	Prof. Ms. S. H. Kuche	0	5	3	-	-
26	Prof. A. U. Chaudhari	0	3	3	-	-

27	Prof. N. S. Khachane	0	6	1	-	-
28	Prof. G. B. Saboo	0	3	0	-	-
29	Prof. Ms. A.B. Pahurkar	0	5	4	-	-
30	Prof. Ms. N. M. Yawale	0	10	2	-	-
31	Prof. Ms. S.G. Pundkar	0	4	2	-	-
32	Prof. Ms. S. N. Hiwse	0	3	2	-	-
33	Prof. Ms. K. H. Deshmukh	0	2	2	-	-
34	Prof. Ms. N. V. Pardakhe	0	6	2	-	-
35	Prof. Ms. S.V. Kalbande	0	6	2	-	-
36	Prof. S.V. Baghel	0	1	4	-	-
37	Prof. R.R. Karwa	0	5	1	-	-
38	Prof. Ms. P.V. Bobade	1	1	0	-	-
39	Prof. Ms. A. P.	0	2	2	-	-
40	Prof. P. P. Kadu	0	2	1	-	-
Department of Mechanical Engineering						
1	Dr. S.S. Deshmukh					
2	A. U Awate		6			01, Title : A Text Book of Engg. Drawing, ISBN: 978-81- 931863-3-6, DnyanPath Pub.Amt.
3	A.K Pitale		11	1		
4	Dr. D.S. Ingole		10	1		
5	S.B. Thakare		8	2		Book in Process
6	N.S. Pohokar		8	1		
7	Dr. S.V. Bansod		8	1	2	
8	K. M. Watt		7	2		
9	N.A. Wankhade	1	6	4		
10	S.G.Bahaley		3	2		
11	S.G. Bahaley		3	2		
12	T. K. Gawande		3			
13	S. S. Chavan		3			
14	S.J. Deshmukh		2	3		
15	A.V.Dhote		1	1		
16	A.S. Deshmukh		1	1		
17	A. V. Kadu		1	1		
18	S.M. Patil		1			
19	K.N. Thakare		1	2		
20	A.V.Dhote			2		
21	S. P .Patil			1		
22	S.P.Patil			1		
23	S. V. Dahake			2		
24	S.A. Gedam			1		
25	S.S.Kongre					
26	A.A.Jiwarkar			2		
27	P.R.Chaudhari			1	1	
28	R.R.Kolhekar			1		
29	K.R.Kaware			3		
30	N.G.Jogi			1		
31	H.D.Patil			1		
32	S.S.Bhange			2		
33	C.R.Patil			2		
34	M.V.Gudadhe			1		
35	R.A.Kubade			1		
36	A.D.Shirbhate			1		
Department of Information Technology						
1	Dr. Ms. V. M. Deshmukh	1	13	2	--	
2	Prof. A. P. Bodkhe	--	1	--	--	
3	Dr. C. A. Dhote	--	4	3	--	
4	Dr. A. S. Alvi	--	2	--	--	
5	Prof. S. V. Dhopte	1	12	3	--	

6	Prof. S. S. Kulkarni	--	11	1	--	
7	Dr. S. R. Gupta	--	9	--	--	
8	Prof. A. A. Gulhane	1	6	2	--	
9	Prof. Ms. M. S. Deshmukh	1	8	5	--	
10	Prof. Ms. P. P. Deshmukh	1	1	1	--	
11	Prof. Ms. P. V. Dudhe	1	4	2	--	
12	Prof. Ms. M. S. Shirbhate	1	4	1	--	
13	Prof. S. P. Thakare	1	6	1	--	
14	Prof. S. D. Thakur	1	6	1	--	
15	Prof. Ms. N. V. Kadam	1	3	2	--	
16	Prof. U. V. Nikam	1	4	2	--	
17	Prof. A. W. Burange	1	6	4	--	
18	Prof. H. D. Misalkar	1	6	4	--	
19	Prof. R. M. Hushangabade	1	5	3	--	
20	Prof. N. M. Shivratriwar	1	8	1	--	
21	Prof. P. R. Nerkar	1	5	2	--	
22	Prof. R. R. Papalkar	1	6	2	--	
23	Prof. A. S. Mahalle	1	12	4	--	
24	Prof. S. N. Sarda	1	6	1	--	
25	Prof. S. I. Saudagar	1	2	3	--	
26	Prof. S. A. Chorey	1	1	1	--	
27	Prof. Ms. R. N. Sawade	1	4	1	--	
28	Prof. P. V. Mamankar	1	3	1	--	
29	Prof. N. S. Wadhe	1	1	1	--	
30	Prof. N. S. Band	1	4	1	--	
31	Prof. K. M. Tarwani	--	--	1	--	
32	Prof. V. S. Sarode	--	1	--	--	
33	Prof. D. H. Deshmukh	--	1	--	--	
34	Prof. P. M. Sune	--	2	--	--	
35	Prof. Ms. P. B. Lohiya	--	2	--	--	
36	Prof. N. G. Sonsale	--	1	--	--	

Department of First Year Engineering

1	Dr. S. P. Kulkarni	-	-	3	-	
2	Dr. S. S. Sonare	-	-	4		-
3	Dr. P. D. Sawalakhe	-	-	4		-
4	Dr. N. B. Ingale	1	-	5	-	-
5	Dr. K. D. Umaley	-	1	-	-	-
6	Dr. R. S. Bobade	-	-	3	-	
7	Dr. P. R. Deshmukh	3	8	5	3	-
8	Dr. R. D. Taywade	-	2	-	-	
9	Prof. M. S. Bhende	2	2	4	2	-
10	Prof. D. G. More	-	1	-	-	-
11	Prof. P. A. Chorey	-	2	4	3	-
12	Prof. S. S. Dhok	-	3	5	3	-
13	Prof. A. G. Kadu	-	2	2	-	-
14	Prof. P. B. Murade	1	-	-	-	-
15	Prof. D. V. Kapse	-	4	-	-	-
16	Dr. Y. S. Manjare	-	2	3	2	-
17	Prof. K. P. Nanote	-	1	-	-	-
18	Prof. M. S. Aainawala	-	1	-	-	-
19	Prof. R. S. Meshram	-	-	3	2	-
20	Prof. C. T. Prajapati	-	1	1	-	-
21	Prof. T. R. Wankhade	-	2	1	1	-
22	Prof. D. N. Bhamkar	1	-	-	-	-
23	Prof. R. S. Palaspagar	3	7	15	10	-
24	Prof. A. A. Jiwarkar	-	-	2	2	-
25	Prof. S. M. Paropate	-	1	-	-	-
26	Prof. S. S. Chavan	-	2	1	-	-
27	Prof. R. A. Juware	-	1	-	-	-
28	Prof. P. V. Gadve	-	1	-	-	-
29	Prof. A. S. Bhopale	-	6	6	1	-
30	Prof. A. A. Dhanbhar	-	-	2	2	-

Department of Management Studies						
1	Prof . H.M. Deshmukh	--	1	1	--	--
2	Prof A V Deshmukh			1		
3	Prof S G Pethe		2	2		
4	Prof YR Vaidya	--		1		
5	Prof N M Gawande			1		
6	Prof P A Kalmegh	--		1		
7	Prof M M Nistane	--	--	1		
8	Prof M S Sadar			1		
Department of Masters in Computer Applications						
1	Dr.S.R.Gupta	--	9	--	--	--
2	Prof.A.P.Kinhikar	1	1	1	--	--
3	Prof.D.R.Bandbuche	--	1	4	--	--
4	Prof.A.J.Pimrikar	--	1		--	--
5	Prof.R.R.Sherekar	--	3	3	--	--
6	Prof.N.D.Bobade	--	1	--	--	--
7	Prof.V.A.Sinha	--	6	4	--	--
8	Prof.P.P.Deshmukh	--	3	3	--	--
9	Prof.S.V.Joshi	--	1	2	--	--
10	Prof.S.A.Ghogare	--	3	2	--	--
11	Prof.S.D.Ulhe	--	3	5	--	--
12	Prof.P.M.Monga	--	3	1	--	--
TOTAL		63	612	411	34	--

Table 3.4.3(b) : Details of publications by the Students :

S. No.	Name of Faculty	No. of Papers published in National Journals	No. of Papers published in International Journals	No. of Papers published in National & International Conferences	No. of Papers published listed in International Database, like Web of Science, Scopus, EBSCO host, Google Scholar, etc.	Specify out of following, if applicable : 1. Monographs 2. Chapter in Books 3. Books Edited 4. Book Published, (ISBN/ISSN, Pub.) 5. Citation Index 6. SNIP 7. SJR 8. Impact Factor 9. H-index
Department of Electronics and Telecommunication Engineering						
1	Mr.Vikram M Kakade			1		
2	Sumit Jadhav			1		
3	Swapnil Wasule			1		
4	Ms. Diksha H. Thakare			1		
5	Aarti Awathare			1		
6	Kiran Dhore			1		
7	Pradip Mane			1		
8	Hemant Pande			1		
9	Shubham Kalbande			1		
10	Renuka Misal			1		
11	Mohanish U.Bhojane			1		
12	Ms. Rashi Dhande		1			
Department of Civil Engineering						
1	JayantSahare		1			
2	KapilNanote		1			
3	Karan Varma		1			
4	KomalRawarkar		1			
5	RajeshreeDeshmukh		1			
6	Uzma Sheikh		1			
7	MurtuzaAinawala		1			
8	Pratik Deshmukh		1			

9	RameshwarIngalkar		1		
10	SagarWankhade		1		
11	SarjeraoPatil		1		
12	SamruddhiSagane		1		
13	VaibhavSangole		1		
14	Salman Khan		1		
15	Khushboo Soni		1		
16	Ubaid Qureshi		1		
17	Aditya Gumble		1		
18	Gaurav Dhadse		1		
19	SonamLokhande		1		
20	KapilWankhade		1		
21	SaurabhKolhe		1		
22	PriyankaBhave		1		
23	KalyaniRajgure		1		
24	BhagyeshreeJagtap		1		
25	Chirag Shukla		2		
26	Manish Meshrsam		2		
27	MustansirEzzy		2		
28	Shruti Agrawal		2		
29	Vipin Gupta		2		
30	RadhikaDahane		2		
31	Mustafa Wagh		2		
32	Amreen Ali		2		
33	RshikeshKhope		2		
34	AnkitShelotkar		2		
35	SurabhiBambal		2		
36	VikramShadi		2		
37	VaibhavMaind		2		
38	RajeshwariMurade		2		
39	SaurabhLonkar		2		
40	NakulPatil		2		
41	AkshayRaut		2		
Department of Computer Science and Engineering					
1	Mohan Kumar		1	1	
2	Ms. Ashwini Chutule		2	2	
3	Ms. Pooja Bhure		2	2	
4	S. L. Satarkar		1	-	
5	S. S. Agrawal		1	2	
6	Sheetal Dhande		-	1	
7	Swati Chandurkar		2	2	
8	V. Deshmukh		1	1	
9	N. Bhagat		1	1	
10	Sohel A. Bhura		1	1	
11	Ankit Deshmukh		1	-	
12	Milind Padgaonkar		1	-	
13	Ashwariya Kadu		1	1	
14	Snehal Deshmukh		1	1	
15	Neha Pawar		2	1	
16	Ajinkya Gudadhe		1	1	
17	Gaurav Chimote		1	1	
18	Rashika S. Badre		1	1	
19	Hema Reddy		1	-	
20	Shruti Jawanjal		2	2	
21	Hema Reddy		1	-	
22	Sanchit Devikar		1	1	
23	Suraj Oza		1	1	
24	Priti Kohar		1	1	
25	Pooja Bhubhure		1	1	
26	Kanchan Ganvir		1	1	
27	Kiran Rathod		1	1	
28	Ram Dafale		1	1	

29	Ashwini Chowbitkar		1	1		
30	Kiran Ubarhande		1	1		
31	Lushar Sahare		1	1		
32	Abhinav Nishankar		1	1		
33	Pallavi Keshwani		1	1		
34	Ritesh Nanwani		1	1		
Department of Mechanical Engineering						
1	Nikhil Chapale				2	ISSN 2349-0845 ISSN 2321-3051
2	Ashwin Chandore				1	ISSN 2319-507x
3	A.V. Nichat				1	
5	S.S. Bhange				1	
6	Y.P.Tidke				1	ISSN 2319-1058
7	Vaibhav Kakade				1	
8	Chetan Benkar		2			ISSN 2278-0181 ISSN 2347-4718
9	S.B.Petale		2			I.F.- 4.226
10	Sneha Chavan				2	
11	Sharad Meshram				1	ISSN 2279-0039
12	Mr. Shirbhate				1	ISSN 2231-2471
13	Shrirang Chaudhari				1	
14	Ramakant Dalu				1	
15	Vishal Yawale				1	
16	R.K. Waghchore				1	ISSN 2250-3536
17	Ashwin Chandore				1	ISSN 2319-507x
18	Gajanan Mandavgade				1	ISSN 2319-507x
19	S.V. Saharakar				2	
20	Sachin Wanare				1	ISSN 2319-1058
21	Neeraj Wayazade	2				ISSN 2230-7850 ISSN 2231-5063
22	M.M. Banubakode		1			
23	Atul Wankhade				1	ISSN 2277-3754
24	S.S. Bhojar				1	ISSN 2249-7455
25	M.V. Ingalkar				1	ISSN 2278-0149
26	K.G. Hirade				1	ISSN 2278-0149
27	Jaideep Ingale				1	
28	Mr. Giramkar			1	1	ISSN 2278-0181
29	Saurabh Bhange				1	
30	N.R.Viddhate				1	
31	N.D. Olokar				1	
32	Nitin Borade				2	ISSN 2321-9653 ISSN 2348-0424
33	Gaurav Bhunte				2	ISSN 2349-7610 ISSN 2278-7844
34	Bharati Tayade				2	ISSN 2319-507x ISSN 2394-3343
35	Priyanka Borade			1		
36	Vaibhav Pethe				2	
37	Shweta Deshmukh				1	
38	Rahul Ingale		1	1		
39	B.G. Rasekar	1				
40	Kishor Watane				1	ISSN 2348-196x
41	Nivrutti Ubhad				1	I.F.- 4.226
42	Shubham More				1	ISSN 2319-507x
43	Sagar Charthal				1	
44	Abhinav Sadar				1	
45	P.R. Mamankar				1	
46	M.S. Joshi				1	
47	M.P. Mangtani				1	ISSN 2278-0149
48	Nitin Borode				2	ISSN 2321-9653 ISSN 2348-0424
49	Mukund Manas				1	

50	Vaishali Mohod				1	
51	Rasika Deshmukh				2	
52	A.R. Sakhare				1	
53	Ashish Samarth				1	
54	Bhargavi N. Maldhure				1	
55	Ashwini R.Burghate				1	
56	Arti S. Gonge				1	
57	Yusuf Rahman				1	
58	Vivek G. Nikhade				1	
59	Mr Shirbhate				2	ISSN 2249-8303
60	Rajesh Pokale				1	ISSN 2394-5494
61	P.R.Nandurkar				2	ISSN 2277-9655 ISSN 2349-6193
62	Ashwini Dhote				1	ISSN 2394-5494
63	A.K. Khan				1	
64	Ashwini Bhurghate				1	ISSN 2394-3343
65	Nilesh Ayane				1	ISSN 2394-5494
66	Karuna Thaware				1	ISSN 2394-5494
67	Roshan D. Bhagat			2	6	
68	Pallavi Ghongre				1	ISSN 2394-5494
69	Ashish Samarth				1	ISSN 2394-5494
70	Vishakha Patil				1	ISSN 2394-5494
71	Ku. Ravina G. Punde				1	ISSN 2394-5494
72	Ku. Vaishnavi K.				1	ISSN 2394-5494
73	Gayatri Kandalkar				1	ISSN 2394-5494
74	Ameya Madhav				1	ISSN 2394-5494
Master of Business Administration						
1	Miss.Namrata Chore-				1	
2	Mr.Mayur Bais-2015-16				1	
3	Miss.Priyanka Tikhile-				1	
4	Miss.Khushboo				1	
5	Miss.Komal Kapdia-				1	
6	Miss.Monika Sewani-				1	
7	Mr.Vikram Bakhtar-				1	
8	Mr.Samadhan Bhagat-				1	
9	Mr.Suresh Gadrya-2014-				1	
10	Mr.Keval Doshi-2014-15				1	
11	Mr.Akshay Phusey-				1	
Masters in Computer Applications						
1	Mr.Prasad S. Deshpande				1	1

3.4.4 Provide details (if any) of

- * Research awards received by the faculty
- * Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally
- * Incentives given to faculty for receiving state, national and international recognitions for research contributions.

Following are the details of the Reserch Awards Received by Faculty :

Table 3.4.4 : Research Awards & Recognitions Received by Faculty

Sr. No.	Name of Faculty	Research Award Received	Recognition Received from reputed Professional Bodies	Incentives for receiving recognition
1	Dr. Ms. V. M. Deshmukh	Best Paper Award	IEEE Best Paper at Pimpri Chinchwad College of Engineering, Pune.	Expenses are reimbursed as per policy
2	Dr S.W.Mohod (Dept. of Electronics and Telecomm. Engineering)	Excellent Session Chair Award at ICSGCE 2014, Sharjah, U.A.E	IEEE International Conference on Smart Grid & Clean Energy Technologies 29-31 Oct. 2014	
3	Dr.M.A.Pund (Dept. of Computer Science & Engineering)	Best Paper Award	Internaational conference on benchmarks in computer science & engineering Technology	
4	Dr.M.A.Pund (Dept. of Computer Science & Engineering)	Best Paper Award	3 rd National Conference on Sustainable Computing & Communication For Development of Nation	
5	Dr. G. R. Bamnote	Brig. M. L. Anand Memorial Award	IETE	

3.5 Consultancy**3.5.1 Give details of the systems and strategies for establishing institute-industry interface?**

- The Industry - Institute Interaction Cell has been formed for interaction between the Institute and various industries. The cell helps to strengthen the linkage with the industry thereby facilitating various processes like:
- Deputation of students for industrial training, industrial visits, and internship and to create awareness about job potential and understanding the functions of industries.
- To acquaint faculty members with fast changing working environment, industrial practices and expectations of the industries.
- To provide R&D, consultancy and testing services opportunity to solve industrial problems by our faculty members.
- To organize guest lectures, workshops, symposium by the experts from industries.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

- The teaching faculty is a judicious blend of youth and experience. The Institute strongly encourages consultancy activities. The consultancy services range from internal equipment utilization to offering individual expertise to industries on-sight.
- The Institute has formulated the consultancy policy and is made available to all faculty members. As per the PRMITR policy, the consultancy is defined as the provision of any advice, information, assistance, “in-company” training and acting as subject matter expert for an external organization, product development, testing or other such professional service for a fee, except for activities in following areas, whether paid or unpaid such as:
 1. Reviewing publications
 2. Member of editorial board
 3. External examiners of other institutions or professional bodies
 4. Advisory member of professional bodies and academic
 5. External consultancy to industries
 6. Internal consultancy to departments or nodal centers within the
 7. Private consultancy
- The details of expertise available in the institution are updated in the website with contact details and policy details for external agency to access. A common email ID is created (consultancy@mitra.ac.in) which is accessed by director of RP Cell and Principal of the institution to address queries related to consultancy work. Further the director of RP Cell committee members visit major MNCs, Government organizations and other research agencies for promotion of consultancy activities and business activities.
- Civil Engineering Department has developed a couple of models of low cost houses and has provided consultancy in the fields of Rain Water Harvesting, Underground Drainage System, and Retrofitting etc. During the last four years earnings through consultancy and testing exceeded Rs. 55 Lakhs.
- Moreover, the institute is sharing knowledge and its technical infrastructure with industries and other educational institutions providing professional or technical education located in the region as well as within the state. The existing intellectual expertise of the institute is publicizing through participation in seminars and conferences organized by educational and professional organizations.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

- The Institute encourages its senior faculties to attend annual conferences of industry associations like CII, FICCI, etc. where they can interact with the prominent people from industries.
- The revenue generated through consultancy services is distributed among the concerned faculty, staff and Institute as per the defined guidelines of the Institute.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

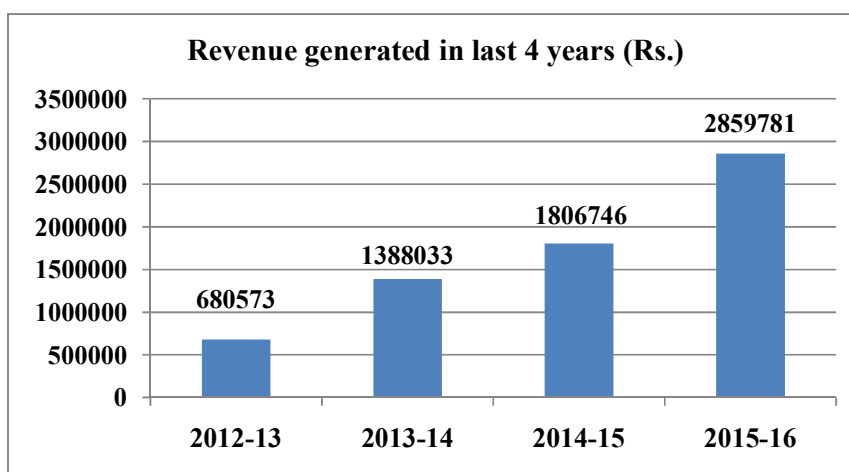
Table 3.5.4 : Broad areas and major consultancy services provided and the revenue generated during the last 4 years

Year	Broad Area in which Consultancy Services Provided	Type of Consultancy Services	Revenue Generated (Rs.)	Name of Faculty(s) involved
2015-16	Civil Engineering	Related to Geotechnical Engineering, Transportation Engineering, Reinforced Cement Concrete, Strength of Material	28,59,781	Prof. R. Y. Kale, Prof S.D. Bonkile, Prof. M.A. Banarase, Prof.Riyaz Sameer, Prof. N. P. Katariya, Prof. R. S. Wanare, .Prof. M. V. Mohod, Prof. V. P. Ravekar
2014-15	Civil Engineering	Related to Geotechnical Engineering, Transportation Engineering, Reinforced Cement Concrete, Strength of Material, Environmental Engineering	18,06,746.00	Prof. R. Y. Kale, Prof S.D. Bonkile, Prof. M.A. Banarase, Prof.Riyaz Sameer, Prof. R. S. Wanare, Prof. M. V. Mohod, Prof.M. Iqbal, Prof. S. V. Dharpal
2013-14	Civil Engineering	Related to Geotechnical Engineering, Transportation Engineering, Reinforced Cement Concrete, Strength of Material	13,88,033.00	Prof. R. Y. Kale, Prof S.D. Bonkile, Prof. M.A. Banarase, Prof.Riyaz Sameer, Prof. M. V. Mohod,
2012-13	Civil Engineering	Related to Geotechnical Engineering, Transportation Engineering, Reinforced Cement Concrete, Strength of Material, Environmental Engineering	6,80,573.00	Prof. R. Y. Kale, Prof S.D. Bonkile, Prof. N. W. Ingole, Prof. M.A. Banarase, Prof.Riyaz Sameer,

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

- The policy of the Institute in sharing the income generated through consultancy and its use for the institutional development is as per the M.S. Govt. resolution (GR No. : WBP-2001/(105/01) Dt. 31/05/2003).
- 50 % revenue generated is distributed to the concerned faculty, staff and peons and remaining 50 % revenue is retained by the Institute for development.
- The amount of maximum remuneration given to the concerned faculty or staff involved in consultancy work should not be more than 20 % of his annual basic pay amount.

Figure 3.5.5 : Income generated through consultancy services during last four years



3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighbourhood- community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

- The institution promotes college-neighborhood network community development by conducting regular activities related to social responsibilities of the institute. NSS Units comprising of 200 students are active in community development activities, like :
 - Cleaning of villages
 - Free health check-up camps
 - Tree plantation
 - Adult Education
 - Students Education in schools at villages
 - Distribution of books, uniforms and other necessary belongings to the poor students
 - Blood donation camps
 - Conduction of FOSS workshops in various colleges /for other students in the institute under the Spoken Tutorial Project

- The Institute is conscious of its role in campus cum community connections, well being of its neighborhood as well as build student's attitude for service orientation and good citizenship.
- Following Table represents the details of Extension Activities and Institutional Social Responsibility (ISR).

Table 3.6.1 : Details of Extension Activities and Institutional Social Responsibility

Sr. No.	Type of Work Undertaken	Venue/Place of Work	Period / Duration of Work
1	Guest Lecture on "Value Education" By Ramkrushna Mission, Pune	PRMIT&R, Badnera	2-4 March 2016
2	Participation of volunteers in "Gadge Baba Jayanti Rally"	Nehru Maidan to Gadge Nagar, Amravati	23/02/2016 (One Day)
3	Mega Blood Donation Camp	PRMIT&R, Badnera	11/03/2016 (One Day)
4	Tress plantation, Ganjar Gavati Nirmulan and Cleaning Program	PRMIT&R, Badnera	26/01/2016 (One Day)
5	Participation of volunteers in "Rasta Suraksha Abhiyaan Rally"	Irwin to Maltakdi, Amravati	22/01/2016 (One Day)
6	Participation of volunteers in "Sanwad Workshop"	SGBAU, Amravati	22/01/2016 (One Day)
7	Road safety awareness program by RTO, Amravati as a part of "Rasta Suraksha Abhiyaan"	PRMIT&R, Badnera	20/01/2016 (One Day)
8	Participation of volunteers in "Yuva netrutva vikas shibir"	SGBAU, Amravati	11-12 Jan 2015 (Two Days)
9	AIDS Awareness Program	PRMIT&R, Badnera	01/10/2015 (One Day)
10	Notebook and study Material distribution Program	Residential school, Bahilolpur	26/09/2015 (One Day)
11	Participation of volunteers in "Savbhavna Daud"	Badnera Old Town	08/09/2015 (One Day)
12	Drawing sheet collection and donation program for blind students	Dr. Narendra Bhiwapurkar Blind School, Amravati	04/09/2015 (One Day)
13	Tree plantation and cleaning program as a part of "Swachh Bharat Abhiyaan"	PRMIT&R, Badnera	15/08/2015 (One Day)
14	Traffic Rule Awareness Program	PRMIT&R, Badnera	14/08/2015 (One Day)
15	A Speech On "HIV- AIDS Awareness" by Mr. Ajay Sakhare District Officer.	PRMIT&R, Badnera	07-04-15 (one Day)
16	Mega Blood Donation Camp	PRMIT&R, Badnera	07/04/2015 (One Day)
17	A Speech by Swami Shrikant Anand President of Ramkrishan monastery Pune on the 150 th Birth Anniversary of Swami Vivekananda,	PRMIT&R Badnera	03-02-15 (One Days)
18	"Swachh Bharat Abhiyaan" Ganjar Gavati Nirmulan Cleaning and road safety	PRMIT&R, Badnera	26/01/2015 (One Day)
19	Blood Test Camp	PRMIT&R Badnera	24-01-15 (One Day)
20	INDRADHNUHYA -2014 Rally	Science Score Ground Amt.	11/05/2014
21	Blood Donation Camp	PRMIT&R, Badnera	18-10-14 (One Day)
22	Tree Plantation program.	Karmayogi Sant Gadgebaba Jeshtha Nagrik Mandal Ground Amravati	28-09-14 (One Day)
23	Republic Day Path sanchalan Selection Camp	SGBAU Amravati	09/06/2014
24	Used Drawing sheets distribution	Dr. Narendra Bhiwapurkar Blind School, Amravati	20-08-14 (One Day)

25	Tree Plantation and cleaning program.	PRMIT&R,Badnera	15-08-14 (One Day)
26	Traffic Rule Awareness Program	PRMIT&R,Badnera	12/08/2014 (One Day)
27	Voter Awareness Rally (Two Wheel er)	Govt. engg. College Amt to Zilla Stadium Amt.	06-04-14 (One Day)
28	Voter "Sanklpa Patra" Filling Program for the students in format R-1187	PRMIT&R,Badnera	04-04-14 (One Day)
29	Guest lecture on "Water Conservation" by shree S.N.Jagtap (ret.DFO)	PRMIT&R,Badnera	27/04/2014 (One Day)
30	Rally on the occasion of World Water Day	M.J.P Office Shiv Tekadi, Amravati	22-03-14 (One Day)
31	Blood Donation Camp on The occasion of World Women's Days	PRMIT&R, Badnera	08-3-14 (One Day)
32	Flag Hosting,Gajargavat Nirmulan and Cleaning Program	PRMIT&R,Badnera	26-01-14 (One Day)
33	Rode Safety Program	PRMIT&R,Badnera	23-01-14 (One Day)
34	National Youth Day 150 th Birth Anniversary of Swami Vivekananda,speech and Disaster Management Program.	Vadali Garden, Amravati	12-01-14 (One Day)
35	Energy Conservation Day	PRMIT&R,Badnera	14-12-13 (One Day)
36	One Day Workshop For Sarpanch, Police Patil ,President ,Mahila Bachat gat, NSS Officer ,Under Chairmanship of Vice Chancellor	SGBAU,Amravati	23-11-13 (One Day)
37	Passport Derive (650 participant)	PRMIT&R,Badnera	08-10-13 (One Day)
38	Blood Donation Camp(400 Blotless)	PRMIT&R,Badnera	08-10-13 (One Day)
39	NSS Foundation Day ,Personality Development and cleaning Program .	Shiv tekadi ,Amravati	24-09-13 (One Day)
40	Cloth Distribution and Shram Dan Program	Matoshi vrudhashram ,Malegaon	20-09-13 (One Day)
41	First Aid Day	PRMIT&R,Badnera	09/17/2013
42	International Literacy Day	Mahadev khori ,Slum Area	08-09-13 (One Day)
43	Flag Hosting Program on the occasion of Independence day ,Tree Plantation Program by the hands of Alumina of PRMITR&R(317 Plants)	PRMITR,Badnera	15-08-2013 (One Day)
44	World Water Day rally	MJP Office Shivtekadi, Amravati	22-03-13 (One Day)
45	Women Empowerment in Disaster Management beyond Class Room	PRMIT&R,Badnera	7 to 8-03-13 (Two Days)
46	Lecture On AIDS Awareness by Mr. Ajay Sakhare Distract Program Officer and blood Donation Camp (370 Boltless)	PRMIT&R,Badnera	22-02-13 (One Day)
47	Disaster Management Program By Collector office	PRMIT&R,Badnera	12-01-13 (One Day)
48	Workshop for Student council Secretary and Students	SGBAU,Amravati	03 to 5-11-12 (Two Days)
49	Workshop on Disasters Management	SGBAU,Amravati	13-10-12 (One Day)
50	Mega Blood Donation Camp (465 boltless)	PRMIT&R,Badnera	04-10-12 (One Day)
51	Literacy Awareness Program	Dasara Ground	09-09-12 (One Day)
52	Yoga And Tree Plantation	Maltekadi,Amravati	07-9-12 (One Day)

53	Workshop for NSS Volunteers	Vidyarthi Bhavan, SGBAU Amravati	28 to 29-08-12 (Two days)
54	Tree Plantation (150 plants)	PRMIT&R, Badnera	15-08-12 (One Day)

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

- To track student involvement in various social activities, the Institute has established a system of faculty members as mentors for each 20 students to keep records of their participation in such activities.
- Further, at the end of the semester, this data is compiled at HODs level and in consultation class teachers; they are given advantage of internal marks as a part of sessional for the outstanding contribution.
- The parent university also gives few marks for extension activities at its level.
- NSS coordinator and Director of Sports also monitor the student's initiative, participation and performance in various social movements and activities which promote citizenship role among students.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

- The stakeholders of the Institute, i.e. students, faculty, parents, alumni and employers are requested to interact with the Institute over associated events, like onsite inspections by NBA, NAAC, Alumni meets, parents meets, STTPs, conferences, etc., so that, their perceptions about overall performance and quality of the Institute can be obtained.
- The Institute remain always in touch with the stakeholders of the Institute and seeks feedback about infrastructural development, recent concepts to be incorporated and quality improvement in academics.
- The feedbacks are taken from stakeholders at the end of every semester. The feedbacks are analyzed and stakeholder's perception on the over performance and quality of the Institute are notified and implemented.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

- Apart from the technical knowledge, other professional qualities like personality development, soft skills, communication skill, environment protection, and conservation of natural resources, humanities, social responsibility, sports, health & safety are inculcated in the students through their active participation in various programs. The Institute organizes such programs throughout the year. The complete financial support is provided by the Institute time to time.

- The NSS unit of Institute is a very active unit and the financial requirements are met by SGBAU and the Institute as and when the programs are planned.
- The impact of extension programs on the students, though cannot be directly quantified, there seems a change in attitude towards the under privileged, matured outlook towards life, willingness to share resources and expertise, and an overall personality change for the better.
- Following table shows the budgetary details for organizing extension and outreach programs for last four years :

Table 3.6.4 (a) : Budgetary Details for Extension & Outreach Programs (last 4 years)

Year	Budgetary Provision (Rs)
2015-16	9,50,000
2014-15	6,43,000
2013-14	1350000
2012-13	500000

- Following table shows the details of major extension and outreach programmes and their overall development of the students :

Table 3.6.4 (b) : Extension & Outreach programmes with their impact on overall development of students

Event	Organization Level	Frequency	Impact on overall development of students
Blood Donation Camps	Institute	Bi-Annual	Humanity, Social Responsibility
Tree Plantation Camps	NSS Program	Annual	Nature conservation and environment protection
Village Development Programmes	NSS Program	Annual	Humanity, Social Responsibility
Collection & Distribution of clothes to Leprosy Patients (400 dresses)	Social	Occasionally	Social Awareness towards under privileged
Used drawing sheets collection and distribution to Blind students	School	Yearly	Social Awareness towards under privileged
Techknow Experts	Institution	Annual	Creativity, Presentation Skill, Technical Skill
Social Gathering- 'Ashayen'	Institution	Annual	Personality Development, Presentation Skill, Art & Culture
Inter collegiate Indoor & Outdoor Games	University	Annual	Physical Fitness, Sportsman Spirit
Youth Festival	University	Annual	Personality Development, Presentation Skill, Art & Culture

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

- The Institute always encourages students and faculty for their participation in extension activities.
- The extension activities like, blood donation camp, health awareness camp and check-up camp are arranged regularly.
- The activities like, improving social awareness, donating requisites, conducting rallies, traffic awareness, water conservation, environment protection, cleaning programs, literacy programs, awareness programs in villages and tribal schools, etc. are conducted under the extension activities.
- The best performing students are awarded to promote the extension activity.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

Table 3.6.6 : Details on social surveys, research & extension work undertaken

S. No.	Type of Work Undertaken	Venue/Place of Work	Beneficiary Details	Period / Duration of Work	Remark	Dept. Involved
1	Survey on underprivileged women & self help saving groups.	V.Y.W.S. Office Amravati & PRMIT&R Badnera	Women from selected SHG's from Nandgaon Khandeshwar Tahsil of Amravati District	12 March 2016 to 16 th April 2016 (Five weeks)	We have conducted workshop for these women , provided them training on "How to start & run business through self help group" & also organized exhibition of their products	MBA
2	Participation of volunteers in "Rasta Suraksha Abhiyaan Rally"	Irwin to Maltakdi, Amravati	Students and Society	22/01/2016 (One Day)	Program Completed Successfully	IT, CSE, EXTC and Mech
3	Visit to Residential school of underprivileged children	Bahilolpur, District- Amravati	Students from under-privileged category	4 th November 2015	Distributed needful material such as food, books, pens and hair clips for the girls & cricket balls to boys, toothpaste & toothbrush to gathered children.	All Departments

4	A Speech On "HIV-AIDS Awareness" by Mr. Ajay Sakhare District Officer.	PRMIT&R, Badnera	Society	07-04-15 (one Day)	Program Completed Successfully	IT, EXTC and Mech.
5	Drawing sheet collection and donation program for blind students	Dr.Narendra Bhiwapurkar Blind School, Amravati	Students of blind School	04/09/2015(One Day)	Program Completed Successfully	IT, CSE, EXTC and Mech
6	Notebook and study Material distribution Program	Residential school, Bahilolpur	Students of Schools	26/09/2015(One Day)	Program Completed Successfully	IT, CSE, EXTC and Mech
7	AIDS Awareness Program	PRMIT&R, Badnera	Society	01/10/2015(One Day)	Program Completed Successfully	IT, CSE, EXTC and Mech
8	Participation of volunteers in "Yuva netrutva vikas shibir"	SGBAU, Amravati	Students and Society	11/01/2015 to 12/01/2015(Two Day)	Program Completed Successfully	IT, CSE, EXTC and Mech
9	Visit to Orphanages	Tapovan Orphanage, Amravati	Children from Tapovan Orphanage	15 th August 2014 (one Day)	Visit to Tapovan orphanage in 2012-13, 2013-14 to provide them educational material & books as per their requirement	MBA
10	National Youth Day 150 th Birth Anniversary of Swami Vivekananda, speech and Disaster Management prog.	Vadali Garden, Amravati	Society and Environment	12-01-14(One Day)	Program Completed Successfully	IT, EXTC and Mech.
11	Rally on the occasion of World Water Day	M.J.P Office Shiv Tekadi, Amravati	Environment	22-03-14(One Day)	Program Completed Successfully	IT, EXTC and Mech.
12	Used Drawing sheets distribution	Dr.Narendra Bhiwapurkar Blind School, Amravati	Students of Blind School	20-08-14(One Day)	Program Completed Successfully	IT, EXTC and Mech.
13	INDRADHNUSHYA -2014 Rally	Science Score Ground Amt.	Society	05/11/2014	Program Completed Successfully	IT, EXTC and Mech.
14	Donation of 70 Blankets to Tribal Primary Students	PRMIT&R Badnera	Students	23-12-2014(One Day)	Program Completed Successfully	IT, EXTC and Mech.
15	Guest lecture on "Water Conservation" by shree S.N.Jagtap (ret.DFO)	PRMIT&R, Badnera	Society and Environment	27/04/2014(One Day)	Program Completed Successfully	IT, CSE, EXTC and Mech
16	Disaster Management Program By Collector office	PRMIT&R, Badnera	Society and Environment	12-01-13(One Day)	Program Completed Successfully	IT, EXTC and Mech.
17	Women Empowerment in Disaster Management beyond Class Room	PRMIT&R, Badnera	Girls and Society	7 to 8-3-13(Two Days)	Program Completed Successfully	IT, EXTC and Mech.
18	Used Drawing sheets distribution (2500 sheets)	Dr.Narendra Bhiwapurkar Blind School, Amravati	Students of Blind School	24-08-13(One Day)	Program Completed Successfully	IT, EXTC and Mech.
19	International Literacy Day	Mahadev khori, Slum Area	Society	08-09-13(One Day)	Program Completed Successfully	IT, EXTC and Mech.

20	Cloth Distribution and Shram Dan Program	Matoshi vrudhashram, Malegao	Senior citizen and Society	20-09-13(One Day)	Program Completed Successfully	IT, EXTC and Mech.
21	One Day Workshop For Sarpanch, Police Patil, President, Mahila Bachat gat, NSS Officer ,Under Chairmanship of VC.	SGBAU, Amravati	Society	23-11-13(One Day)	Program Completed Successfully	IT, EXTC and Mech.
22	Female Feticide awareness camp	Vasant sabhagraha, Amravati	Girls and Women's of Society	3-7-12(One Day)	Program Completed Successfully	IT, EXTC and Mech.
23	Female Feticide awareness program	PRMIT&R, Badnera	Girls and Women's of Society	15-08-12(One Day)	Program Completed Successfully	IT, EXTC and Mech.
24	Used Drawing sheets distribution	Dr.Narendra Bhiwapurkar Blind School , Amravati	Students of Blind School	31-08-12(One Day)	Program Completed Successfully	IT, EXTC and Mech.
25	Literacy Awareness Program	Dasara Ground	Society	09-09-12 (One Day)	Program Completed Successfully	IT, EXTC and Mech.
26	Workshop on Disasters Management	SGBAU, Amravati	Society and Environment	13-10-12 (One Day)	Program Completed Successfully	IT
27	Visit to Municipal Schools	Municipal School Ram Nagar, Amravati. Municipal School Bhajibajar, Amravati. Municipal School Belpura, Amravati	Students from under-privileged category	14 th August 2011 (one day) 14 th August 2012 (one day)	Organizd visit to Tapovan orphanage in 2010-11,2011-12 to provide them educational material & books as per their requirement	MBA
28	Visited Madhuban old-age home	Jakat road to Kondeshwar road, Amravati bypass	Old people from age group of 65-90 years	10 th April 2016(One Day)	Contribution of students are very good. Student interacting with old people , students served them breakfast. Students and Prof. Swapnil Deshmukh suggested some good management techniques to management officials.	CSE Dept.
29	visited Dhyandaya Primary School cum orphanage.	Vrindavan colony, near Biyani square, Amravati	Children were from age group of 5-12 years	On Sunday 9 th June 2016(One Day)	Student Breakfast & Played with children. Spending time with them. Student gives some gift (color pen, bat, boll..etc)	CSE Dept.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

- Apart from technical knowledge & professional ability, following values and skill are inculcated in the students through their active participation in the extension activities :
- Building of self-confidence.
- Development of interpersonal skills
- Sense of responsibility toward society
- Helping attitude towards needy or socially ignored people.
- Respect for nature & environmental protection needs.
- Positive approach towards life
- Sense of togetherness
- Following table enlists the events conducted every year by the Institute and parent university. The expected qualities reflecting on objectives and expected outcomes of extension activities are also given :

Table 3.6.7 : Details of Events Conducted and Expected Values & Skills Inculcated

Event	Organization Level	Frequency	Values & Skills
Debate Competition	Department	Annual	Communication Skill, Personality Development
Group Discussion	Department	Annual	Leadership, Communication Skill, Personality Development
Technical Quiz	Department	Annual	Technical Knowledge Enhancement
Wall Magazine	Department	Annual	Creativity
LAN Gaming	Department	Annual	Computer Skill
Hobby Club	Department	Continuous	Creativity
Blood Donation Camp	Institute (NSS Program)	Annual	Humanity, Social Responsibility
Tree Plantation Camp	Institute (NSS Program)	Annual	Nature Conservation
Tech Fest	Institution	Annual	Creativity, Presentation Skill, Technical Skill
Social Gathering- 'Ashayen'	Institution	Annual	Personality Development, Presentation Skill, Art & Culture
College Magazine	Institution	Annual	Writing ability, Art & Culture, Language
Inter collegiate Indoor & Outdoor Games	University	Annual	Physical Fitness, Sportsman Spirit
Youth Festival	University	Annual	Personality Development, Presentation Skill, Art & Culture

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

- The institute takes the help of elder and influential people like village head, members of gram panchayat to ensure the involvement of local population in its community development activities.
- To win the confidence of local population the institute organizes various awareness programs like free dental & healthcare camps, Eye checkup camps, Village cleaning drives, etc.
- The activities pertaining to community involvement are conducted every year with the support and participation of at least 100 students of NSS, and faculty and staff of the Institute.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

- Informal relationship with the office bearers of various societies of other institutes and prominent senior citizens of nearby villages have been established in a cordial manner for successfully working on various outreach and extension activities. However, no formal relationship in the form of MOU, agreement, etc., has been forged between two parties.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

- Follow are the awards received by the institution for extension activities and contributions to the social/community development during the last four years :
 1. ISTE Bhartiya Vidya Bhavan National Award for an Engineering College having, “Best Overall Performance”, 2015
 2. Best ISF Award (2013-14) to Student Forum of PRMIT & R from ISTE
 3. “Blood Donation Award”, Govt. of Maharashtra, 2012
 4. “Environment Award – 2012”, By SGB Amravati University, Amravati (SGBAU)
 5. College Magazine Award – 2nd Prize by SGBAU, 2012-13
 6. College Magazine Award – 1st Prize by SGBAU, 2011-12

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

- The institution collaborates and interacts with research laboratories, institutions of repute and industry for research activities at two levels.
- At Institute Level through formal MOUs with such organizations, engagement of professionals for conducting lectures, seminars, workshops, etc.
- At individual faculty level through informal or personal basis with individual academia or professionals from institutions, like VNIT, IITB, IITK.
- In both the levels, the sharing of knowledge with an interest of creating research orientation, sharing of lab facilities and equipment takes place.
- The benefits accrued of such initiatives by the institute have been satisfying in terms of summer internship opportunities for students in industries. Moreover, the inculcation of research attitude and motivation for carrying out research, exposure to emerging trends in respective domain of technology, are some of the benefits for orientation of students and faculty.

Table 3.7.1 : Collaborations & Interaction with Research Labs, Institutes & Industries

Name of Research Lab/ Institute/ Industry with whom collaboration & interaction made	Area/Title of Collaborative Research	Names of Staff Exchanged	Details of Sharing of Facilities	Details of Sharing of Equipment	Research Scholarships Received	Benefits Accrued of the Research Initiatives/ Collaborative Research
Department of Mechanical Engineering						
VNIT Nagpur	Pattern making using rapid prototyping.	Prof. Dr. D.S. Ingole	CAD/CAM Lab.	Rapid Prototyping Machine.	Nil	Availability of advance technology for pattern making in foundries.
Jadhao Gears Amravati	Performance analysis of cryogenic tools.	Prof. Dr. A.D. Shirbhate	Machine shop	Lathe machines	Nil	New technology for increasing tool life.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

Table 3.7.2 : Details of MoUs/collaborations & their contribution for Development of Institution

Sr. No.	Name of Institution/ University/ Industry/ Corporate	Details of MOUs/ Collaborative Arrangements	Date/ Period	How they have contributed in development of the Institute
Department of Information Technology				
1	CTronics System Amravati	MOU with CTronics System Amravati 1st July 2012(Final Yr Project 2012-13)	1st July 2012	Contributed for Final Year Project.
2	SEED Info Tech Pune	MOU with SEED Info Tech Pune on 1st July 2012 (Training on .Net & Java)	1st July 2012	Provided training to students on .Net & J2EE.
3	CTronics System Amravati	MOU with CTronics System Amravati 1st July 2014(Final Year Project 2014-15)	1st July 2014	Contributed for Final Year Project.
4	Think Code Technologies, Amravati	MOU with Think Code Technologies, Amravati, 23 th July 2014 (Final Year Project 2013-14)	23 th July 2014	Contributed for Final Year Project.
5	Think Code Technologies, Amravati	MOU with Think Code Technologies, Amravati, 25 th July 2014 (Final Year Project 2014-15)	25 th July 2014	Contributed for Final Year Project.
6	Concept Academy, Amravati	MOU with Concept Academy, Amravati, 22nd August 2014 (Gate Coaching for the Third and Final year students)	22nd August 2014	Provided coaching to students for GATE Exam.
7	CTronics System Amravati	MOU with CTronics System Amravati 1st July 2014(Final Year Project 2015-16)	1st July 2015	Contributed for Final Year Project.
Department of Civil Engineering:				
1	Dr Fixit Institute of structural Protection & Rehabilitation, Mumbai	Provided joint programmes covering seminar and workshop sand awareness programmes about educational institutions	Sep-09	Provided knowledge about the construction chemicals
2	Plasti Surge Industries Pvt Ltd, Amravati	Provided Testing and consultancy facilities for civil works for the project	29/06/2012	Testing and consultancy
3	Sanjay Nagpure & Associates, Nawathe Nagar, Badnera Road, Amravati	Sponsored students projects carried out in Civil Engineering	30/06/2012	Provided site knowledge and materials required for the project
4	S.J. Consultancy, Structural Designer, Planner&Builder, Dahane Nagar, Amravati	Sponsored students projects carried out in Civil Engineering	30/06/2012	Provided site knowledge and materials required for the project
5	Maharudra Associates, Malviya complex, RathiNagar, Amravati	Sponsored students projects carried out in Civil Engineering	30/06/2012	Provided site knowledge and materials required for the project

6	Maharashtra Rural Health Development Association, University Road, Amravati	Regarding study of PMGSY research and development scheme	28/06/2012	Provided details of PMGSY for the project
7	Umap Builders & Developers, Kechecomplex, Rathi Nagar, Amravati	Sponsored students projects carried out in Civil Engineering	30/06/2012	Provided site knowledge and materials required for the project
8	Gannon Dunkerley & Co., Ltd., A-501, Business Square, Andheri(E), Chakala, Mumbai - 400093	Provided Testing and consultancy facilities for PMC project (I) Ltd, Yelwan, Akola works	28/06/2012	Testing and consultancy
9	Tata Housing Development Company Ltd, Mumbai	Onsite training programme for few projects	10/04/2013	Students gained field knowledge

Department of Computer Science and Engineering

1	Etkin InfoTech Pvt. Ltd. Amravati	Provide internship to the students, in this they teach new technologies to the students for project development	1 year 20th Aug 2015	To improve interaction among students and department with industry. Importantly MoU focuses on training to staff as well as students, aware students about current and future technological trends, sponsoring and guiding projects.
2	Think Code Technologies Pvt. Ltd. Amravati	Provide internship to the students, in this they teach new technologies to the students for project development also sponsored the students projects	2 Times MoU Signed	
3	Ctronics Systems Pvt.Ltd. Amravati	Provide internship to the students, in this they teach new technologies to the students for project development also sponsored the students projects4	08/01/2013 For 1 Year & 08/01/2012 For 1 Year	Giving knowledge to the students about the changing scenario in the corporate field.
			2 Times MoU Signed 08/01/2014 For 1 Year & 08/01/2013 For 1 Year	Awareing students regarding current trends and technologies of different subject areas.

Department of Mechanical Engineering:

1	Jadhao Icons Amravati	Mutual understanding for technological exchange through consultancy, projects, training etc.	Since 2012	Provided industry exposure to faculty & students.
2	ASPA Bandsons, Amravati	Mutual understanding for technological exchange through consultancy, projects, training etc.	Since 2012	Provided industry exposure to faculty & students.
3	Indo-German Tool Room	Mutual understanding for CAD/CAM training etc.	Since 2014	Provided in-house & in-plant training to students.
4	MGIRI Wardha	Mutual understanding for collaborative projects	Since 2016	Provided opportunity to work on on-field projects.

Department of Electronics and Telecommunications Engineering:				
1	MITCON consultancy and engineering Services Limited	To facilitated closer cooperation and interaction to initiate and implement Entrepreneurship related activity for the students of PRMIT&R , skill development through science and technology.		
2	Sciencetech technology PVT. LTD, Indore	To bridge the gap between industry expectations and academic offering by direct involvement of industry to attain a symbiosis.		
3	KPIT, Pune	Departmental faculty training, Software Training to develop the projects in core sector, industry interaction with students, Student placement.		
4	Copper Track Industry, Nashik	Industry institute interaction through industrial visit, sponsoring projects, arranging the training program for Faculty/Students, Displaying the industrial product in institute, sharing the lab and library facility..		
5	Brijlal Biyani Science College, Amravati	Collaborative Co – operation in laboratory facility, resource person, guest lectures from expert faculties in the field of biomedical electronics and mechatronics, R & D activities, faculty exchange program, use of laboratory facility of institute, skill up gradation program.		
Department of Management Studies:				
1	Ms.Shan Honda ltd , Amravati (Industries)	1.Collaboration for Recruitment , training of the employees 2. Market survey and consumer satisfaction survey	Jan 2016-Dec 2017	Employees are sharing industrial experiences with faculty members whereas faculty members trained them in conceptual knowledge
2	Daily JanMadhyam , Amravati (Newspaper Industry)	collaborations for administrative purpose Market survey of newspaper readers	Jan 2016-Dec 2017	Employees are sharing industrial experiences with faculty members whereas faculty members trained them in conceptual knowledge
Department of Masters in Computer Applications:				
1	Thinkcode Technology	Collaborative Arrangements	2014-15	Training & Internship(not part of the curriculum)
2	Soham Consultants	Collaborative	2015-16	Training & paid Internship

		Arrangements		
3	Poornadwait Solutions Pvt. Ltd.	Collaborative Arrangements	2015-16	Training & Internship
4	Etkin	Collaborative Arrangements	2014-15	Training & Internship(not part of the curriculum)
5	Laksh IT Solution	MOU	25/07/2016 2 years	Training, Internship & then Placement

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

The following table gives the details of Industry-Institution-Community Interactions:

Table 3.7.3 : Details of Industry-Institution-Community Interactions

Sr. No.	Industry-institution-community interactions	Contribution to establishment for		
		Creation/ up-gradation of academic facilities	Student & Staff Support	Infrastructure Facilities, viz. laboratories/ library /new technology/ placement services
1	TCS, Syntel, CapeGemini, Zensar	--	--	Placement services
2	KPIT	Some courses are introduced for upgrading syllabus.	Selected students will undergo training on introduced courses	Placement services
3	Microsoft	--	Provides training to faculties	--
4	e-Yantra	New Robotics Lab setup e-Yantra- in collaboration with IITB.	3 Faculty	For Lab setup, Robotics Knowledge and Hands on Practice
5	Indo-German Tool Room Aurangabad	-	To impart technical training on advance design & manufacturing to students.185 students completed the training.	Provides training service
6	FACE (Focus Academy for Career Enhancement) Banglore	-	-	To impart training on aptitude, communication & personality to students to increase their placement chances. All final year students undergo this training.
7	Wipro	UTLP Kit and Laboratory	Training	Laboratory
8	MISSION 10X Training Program By WIPRO	To enhance teaching skills. Faculties completed the training.	MISSION 10X Training Program By WIPRO	

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

Following table gives the names of eminent scientists/participants who contributed to the events :

Table 3.7.4 : National & International Conferences organized during last four years :

Year	Conference Organized by Institute (National/ International)	Names of Eminent Scientists/ Participants who contributed to events	Type of Contribution (Key-note speaker, Session Chair, Session Speaker, Presented Paper, Participated, Demonstration, etc.)
Department of Information Technology:			
2015-16	International Conference on Science and Technology for Sustainable Development	Mr. Shashikant Chaudhary, CEO, Nagpur Angels.	Keynote Speaker
		Dr. Mir Ashfaque Ali	Session Chair
		Dr. H.R.Deshmukh	Session Chair
	3 rd National Conference on Sustainable Computing & Communication For Development of Nation	Dr. Anil Kakodkar, Chairman, Rajiv Gandhi Science & Technology Commission	Keynote Speaker
		Former Chairman , Atomic Energy Commission, Govt. of India	
		Er. Kiran Gitte, District Magistrate and Collector ,Amravati	Keynote Speaker
		Dr.Likewin Thomas, NITK,Suratkal	Keynote Speaker
		Dr. Sachin Deshmukh, Dr. Babasaheb Ambedkar Marathwada University	Session Chair
		Dr. V.M.Thakare , SGBA University	Session Chair
		Dr.H.R.Deshmukh,IBSS Engineering,Amravati	Session Chair
		Dr.G.R.Bamnote, Dean (Engg & Tech), SGBAU	Session Chair
		Dr. S.S. Sherekar, SGBA University	Session Chair
		Dr.Sunil Wankhade, Mumbai .	Session Chair
		Prof.Ms.Anjali Raut	Session Chair
		Mr. Vilas Ambadkar	Keynote Speaker
		Senior, Project Manager Wipro, Pune.	
		Dr. S. M. Gulhane, BOS Chairman, SGBA University	Session Chair
		Dr. S.N. Kale, SGBA University	Session Chair
		Dr.P.V.Ingole, Principal G.H.Raisoni, Amravati	Session Chair
		Dr. N.P. Jawarkar	Session Chair
2012-13	National Conference	Dr. S.S. Sherekar	Session Chair
	NCAICN 2013	Dr. R. V. Dharaskar	Session Chair
Department of Civil Engineering			
2015-16	National conference on “Smarter Solution for Better Tomorrow”	AshwinLuthra	Keynote Speaker
		SandipZade	
		Prakash Jha	
	International Conference on Science & Technology for Sustainable Development.	Dr. Girish Pofali, Principal Scientist, NERI, Nagpur	Keynote Speaker

Department of Computer Science and Engineering			
2015-16	International Conference on Science and Technology for Sustainable Development	Mr. Shashikant Chaudhary, CEO, Nagpur Angels.	Keynote Speaker
		Dr. Mir Ashfaque Ali	Session Chair
		Dr. H.R.Deshmukh	Session Chair
	3rd National Conference on Sustainable Computing and Communication for Development of Nation (NCSC ² D), On February 12th -13th 2016	Dr. Anil Kakotkar Chairman, Rajiv Gandhi Science & Technology Commission	Keynote Speaker & Chief Guest
		Dr. Likewin Thomas , NITK Suratkal	Keynote Speaker
		Dr.V.M.Thakare , BOS Chairman , SGBAU,Amravati	Session Chair
		Dr.Likewin Thomas , NITK Suratkal	Session Chair
		Dr.H.R.Deshmukh Prof &Head, CSE Dept, IBSS Gode Engg. College , Amt.	Session Chair
		Dr.G.R.Bamnote, Dean (Engg & Tech), SGBAU	Session Chair
		Dr.A.B.Raut, Head CSE Dept, HVPM Engg College & Technology, Amt.	Session Chair
Dr.S.S.Sherekar, CSE Dept, SGBAU, Amravati	Session Chair		
Dr.S.W.Wankhade Professor and Head , Computer Engineering Department, Rajiv Gandhi Institute of Technology, Andheri, Mumbai	Session Chair		
2012-13		Dr. Rajiv Dharskar Former Professor & Head of PG Department of Computer Science & Engineering , GH Raison College of Engineering Nagpur	Keynote Speaker
		Dr.Rajiv Dharskar Former Professor & Head of PG Department of Computer Science & Engineering , GH Raison College of Engineering Nagpur	Session Chair
		Dr.S.S.Sherekar CSE Dept, SGBAU, Amravati	Session Chair
		Prof.Ms.V.M.Deshmukh Asso. Professor CSE Dept, PRMIT&R, Badnera	Co-Session Chair
		Dr.S.R.Gupta Asst. Professor CSE Dept, PRMIT&R, Badnera	Co-Session Chair
Department of Mechanical Engineering:			
2015-16	International Science & technology for sustainable development Kuala Lumpur Malaysia 24-26 May 2016	Mr. Vikram Bhurshundi Sr. Manager, TAL Nagpur	Keynote speaker
2014-15	National MEPCON 6-7 April 2015	Dr. S.K.Kherde, Principal KGIT, Darapur	Keynote speaker
Department of Electronics and Telecommunications Engg.			
2015-16	International conference on science ans technology for sustainable development Kuala Lumpur, Malaysia (ICSTSD) Satellite Conference PRMIT&R. Badnera – Amravati 24 to 26 May 2016	Mr. Amit Rawanker, CEO, Tata Consultancy services	
	3 rd National Conference on Sustainable Computing and Communication for development (NCSC ² D) Feb 2016	Dr. Anil Kakodkar, Ex. Chairman, Atomic Energy Commission Mr Vilas Ambadkar, Senior Project Manager, WIPRO	

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements ? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated -

- a) Curriculum development/enrichment
- b) Internship/ On-the- job training
- c) Summer placement
- d) Faculty exchange and professional development
- e) Research
- f) Consultancy
- g) Extension
- h) Publication
- i) Student Placement
- j) Twinning programmes
- k) Introduction of new courses
- l) Student exchange
- m) Any other

Following table gives the details of Linkages/collaborations resulted in formal MoUs and agreements, activities and beneficiaries :

Table 3.7.5 : Significant Linkages/collaborations , MoUs, agreements, activities & beneficiaries

S. No	Name of Linkages or Collaborations	Name of Agency with whom Formal MOUs/ Agreements Signed	Details of Activities Conducted	Beneficiaries Details	No. of Papers published listed in International Database, like Web of Science, Scopus, EBSCO host, Google Scholar, etc.	Specify from the following, Linkages established that enhanced and/or facilitated : 1. Curriculum development/enrichment 2. Internship/ On-the-job training 3. Summer placement 4. Faculty exchange and professional development 5. Research 6. Consultancy 7. Extension 8. Publication 9. Student Placement Twinning programmes Introduction of new courses Student exchange Any other
1	Written Communication	Dr Fixit Institute of structural Protection & Rehabilitation, Mumbai	Provided joint programmes covering seminar and workshops and awareness programmes about educational institutions	Beneficial to the staff / faculty of Department and final year students		Training programme
2		Gannon Dunkerley & Co., Ltd., A-501, Business Square, 151. Andheri (E), Chakala,	Provided Testing and consultancy facilities for PMC project (I) Ltd, Yelwan, Akola works	Beneficial to the staff / faculty of Department and final year students of Department		Consultancy

		Mumbai - 400093				
3	Written Communication	Tata Housing Development Company Ltd, Mumbai	On site training programme for few projects	Beneficial to the staff / faculty of Department and final year students		On site training programme
4	Industry-Institute Interaction	Indo-German Tool Room Aurangabad	Technical training for students	Knowledge of latest technology		Curriculum development/enrichment
5	Entrepreneurship development, counseling about Government facilities	MITCON consultancy and engineering Services Limited	Entrepreneurship awareness camp	Students		Professional development, consultancy
6	Summer camp and internship	Sciencetech technology PVT. LTD, Indore	Equipment testing and maintenance	Students		Internship
7	Student Placement, faculty development	KPIT, Pune	Training on Automotive electronics and AUTOSAR	Faculty and Final year Students		Student Placement
8	Student training program	Copper Track Industry, Nashik	Training on PCB designing and Soldering.	2 nd year Students		1. Introduction of new courses

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

- The Institute has been established linkages with reputed educational institutions like IIT (Bombay), IIT (Kharagpur) and VNIT (Nagpur), training organization of international repute, like Indo German Tool Room, Research organizations like, NEERI AND MGIRI, and many industries.
- The systematic policies have been formulated by the Institute with regard to industry interactions, consultancy and seeking collaborations.
- Consistent efforts are taken by various departments and committees of the Institute, like Industry Institute Interaction Cell, Research Promotion Cell, Intellectual Property Right Cell for promoting research, consultancy and extension activities.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

- The Institute has established policies and procedures to create the infrastructure at par with the standards and norms of AICTE and SGBAU with respect to the human resources, laboratory equipment, built-up area, learning resources and other teaching learning aids. The required demands are satisfied whenever the variation in existing intake or new courses were introduced. The infrastructure required is planned by various departments and annual budget is prepared. After getting the approval from the Chairman, the necessary actions are initiated. The policy comprehensively includes but not limited to:
 - To plan for class rooms as per the requirements.
 - To establish laboratory as per the syllabus.
 - To have seminar halls & board rooms.
 - To provide amenities like canteen, transport, playgrounds etc.
 - To establish class rooms and laboratories for newly sanctioned departments
 - To include infrastructure to accommodate the increase in student strength in the existing departments.
 - To purchase books in central library and departmental library to meet the requirements.

The following guidelines are followed to finalize the purchase procedure:

- HODs submit their requirements along with the budget estimation for the academic year by June / July to the Principal.
- HODs through lab in-charges call the quotations for the equipment and prepare the comparative statement.
- A purchase Committee consisting of concerned HOD and the faculty coordinator after relevant discussions forwards the purchase request with the approval of Principal to the Management.
- The purchase order is placed by the Principal to the respective company.
- After receiving the equipment along with the bill, the department will test and verify as per specifications mentioned in the purchase order.
- If the department is satisfied with the equipment, the bills will be passed after duly entering into stock registers and the bills will be sent to the office for payment.
- The office after receiving the bills enters in to the central stock register and clears the bills. The department shall maintain copy of all the correspondences and to make entry in separate stock registers for recurring and non-recurring items for each laboratory.

4.1.2 Detail the facilities available for -

- a) **Curricular and co-curricular activities - classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.**

The following table shows the details of facilities available in the Institute :

Table 4.1.2 (a) : Facilities available for Curricular & co-curricular activities :

Technology Enabled Learning Spaces	No. /Qty.	Total Area (m ²)	Availability of the Specialized Facilities/ Equipment for Teaching - Learning & Research
Class Rooms	38	3490.57	LCD Projectors, OHP, TVs, PA Sysmtes, Wi-fi and Internet
Tutorial Rooms	24	779.52	
Laboratories	52	4478	
Computer Cente	01	150	
Seminar Hall(s)	6	934.38	
Language Laboratory	1	33	
Workshop	1	279.19	
Main Library	1	771	
Sports	1	60	
Auditorium	1	1170	
Administrative	1	1804.84	
Canteen	1	606	
Circulation Area	1	9677.69	
Total Built-up Area		24,605	

- b) **Extra-curricular activities - sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.**

The following table shows the facilities available for Extra-curricular activities :

Table 4.1.2 (b) : Detail the facilities available for Extra-curricular activities :

Extra-curricular Activities	Details of Facilities Available	Specialized Equipment(s)
Sports	Sport Department and playground	Kits for various games and sports
Indoor Games	Facilities for the sports like Badminton, Table Tennis, Chess etc, are provided to students in the institute campus only.	Kits for indoor games
Outdoor Games	A spacious play ground is available for outdoor games i.e. cricket, football, Volleyball, Kabaddi, etc. in college campus.	Kits and safety devices for outdoor games

NSS	Institute has NSS center of University. It organizes activities like blood donation camp, visits to NGOs, ladies awareness programs, camps.	
Auditorium	Open Auditorium is Available	--
Cultural Activities	Seminar Halls and Auditorium	Public Address System Unit, LCD Projector
Public speaking	Department organizes guest lectures for awareness.	Public Address System Unit, LCD Projector
Communication Skills Development	Language Lab	30 Systems. 1 Sever – Pentium Dual Core ,2.6GHz, 1 GB RAM, 320 GB HDD, 15.6” LCD Monitor, 30 Clients – Celeron 1.7 GHz. 256 MB RAM, 4 HDD, 15” Monitor 16 Line CISCO Switches - 02
Health and Hygiene	Institute provides dispensary with First Aid facility & Doctor within premises.	Ambulance, Beds, Oxygen Cylinder, Primary Medicines, First Aid facility.

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/ augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).

- Institution has the infrastructure as per AICTE and SGBAU norms.
- As the new programs were introduced and intake of various programs have been increased in 2008 and subsequent years, a new four storied building block has been constructed to meet the academic requirement as per the increased intake.

Following table shows year-wise growth in intake and infrastructure requirement :

Table 4.1.3 : Year-wise Growth in Intake and Infrastructure

Course	Total Students 2012-13	Total Students 2013-14	Total Students 2014-15	Total Students 2015-16	Total Students 2016-17	CR	TR	SH	LAB	WS	DH 132	Comp Center 150
UG PROGRAMS												
Civil Engg	420	480	480	480	480	3	1	1	10		1	1
Comp Sci & Engg	630	720	720	720	720	6	2	1	10			
Elect & Telecom	540	600	480	720	720	6	2	1	10			
Info Techno	390	420	480	480	480	6	2	1	10			
Mech Engg	480	540	600	660	720	6	2	1	10			
Civil Engg (Dir 2nd)	60	120	180	180	180	3	1					
PG PROGRAMS												
Info Tech	36	36	36	36	36		2					
Structural Engg	36	36	36	36	36		2					
CAD/CAM	36	36	36	36	36		2					
Comp Sci & Engg	24	48	48	48	48		2					
Thermal Engg	-	24	48	48	48		2					
Extc	-	24	48	48	48		2					
MBA	120	180	240	240	240	4	1					
MCA	180	180	180	180	180	3	1		3			
	3177	3717	4047	4107	4233							
						Required as per norms	37	24	6	52	1	1
						Available	38	24	6	52	1	1

- The other infrastructural developments in last few years are as follows :
- Extension of Electronics & Tele. Engg Department block
- Auditorium and Canteen
- Construction of Parking zone for faculty and students
- Construction planned during 2016-17 : Extension of Mech Dept
Extension of Civil Engg Dept

(Please refer **ANNEXURE – III** for Master Plan of the Institution)

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

- The number of physically disabled students in Institute is almost negligible. Whereas, the Institute has provided following infrastructural facilities for students with physical disabilities:
 - Lift in the main building
 - Ramps at various departments
 - Railings to staircases
 - Wheel chair in the dispensary
 - Bus facility

4.1.5 Give details on the residential facility and various provisions available within them:

- Hostel Facility – Accommodation available
- Recreational facilities, gymnasium, yoga center, etc.
- Computer facility including access to internet in hostel
- Facilities for medical emergencies
- Library facility in the hostels
- Internet and Wi-Fi facility
- Recreational facility-common room with audio-visual equipment
- Available residential facility for the staff and occupancy Constant supply of safe
- drinking water
- Security

Residential facility :

- As the Institute is within corporation limits of the city of Amravati and most of the students are from nearby areas, everybody prefers to stay at Amravati or Badnera. Most of the people have their ancestral residences at these places. Therefore, the Institute does not have residential facility in the campus for faculty, staff and students.

Hostel Facility :

- Institute has a rented hostel with all amenities available for girl students in heart of the city. The accommodation is provided for outstation girl students. The hostel has all facilities like, recreation, internet and wi-fi, first-aid medical facility, doctor on call, library, TV, safe drinking water, 24 hour security guard, CC TV surveillance system and two lady wardens. The girl students are provided a bus facility from the ladies hostel.

1.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

On-campus provisions of Health Care :

- The Institute has a dispensary with qualified doctor in the campus with adequate first-aid healthcare facility.
- First aid boxes with all necessary medicine kits are available at every department.
- Ambulance facility is freely available to the students, faculty and staff as & when required.
- Doctor's checkup and consulting chamber with all necessary facilities

Off-campus provision of Health Care :

- Availability of Medical Counseling facility at super specialty hospital at Amravati.
- Well Equipped Medicine and Surgical ICU
- Computerized Pathology Lab
- X-ray/sonography centre
- ECG, Holter monitor, etc.
- The medical insurance of all faculty, staff and students is done and renewed every year.

4.1.7 Give details of the Common Facilities available on the campus-spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

IQAC Unit:

- IQAC has been constituted on 16th June 2016 for a period of Two years.

Grievance Redressal Unit:

- The Institute has a well-defined mechanism at various levels for the redressal of grievances of staff and students. Following is the grievance redressal system functioning in the Institute.

Grievance Redressal System:

- Institute level : HOD, Principal
- Management Level : Local Management Committee
- University Level : Grievance Cell & Tribunal
-

Table 4.1.7 (a) : Grievance Redressal Committee

Sr. No.	Name of Member	Designation
1	Dr. N. W. Kale	Chairman
2	Dr. M. A. Pund	Member
3	Dr. R. A. Kubde	Member
4	Shri A. V. Khandar	Member

Table 4.1.7 (b) : Women's Grivance Committee

Sr. No.	Name of Member	Representation
1	Prof. Madhuri S. Bhende	Chairperson
2	Dr. Varsha A. Naphade	Lady Teacher
3	Prof. P. M. Ingole	Male Teacher
4	Shri Y. G. Deshmukh	Male Non-teaching
5	Ms. S. S. Hiwase	Lady non-teaching
6	Ms. Jayashri K. More	NGO
7	Prof. Ms. Ragini H. Deshmukh	Management Member
8	Ms. Varsha N. Deshmukh	Lady Lawyer
9	Mr. Uddhav Thakare (2 nd Year Extc)	Male Student
10	Mr. Vishal Badukale (2 nd Year Mech)	Male Student
11	Miss Shubhangi Upalkar (2 nd Year Civil)	Female Student
12	Miss Janhavi Dahapute (2 nd Year CSE)	Female Student
13	Miss Nidhi Vighe (2 nd Year IT)	Female Student

Counseling and Career Guidance:

- The Institute very effectively renders the information regarding career planning to the students through its career guidance cell. The career guidance cell which is a part of Training and Placement department conducts self-assessment seminar every year for second year students. This helps the students in deciding the gray areas those need improvement. The aptitude of the students is also reflected in this process. With these inputs, the cell continuously helps the students in proper planning of their career.

Following activities are conducted every year by this cell :

- Conducting a self-assessment seminar for students.
- Guidance for choosing proper career.
- Personal counseling for opportunities of higher studies in India and abroad.
- Seminar and coaching assistance for GATE/GRE/TOEFL.
- Informative seminar about MBA entrance exams and coaching facilities.
- Seminar on Higher education abroad by various expert agencies.
- Availability of ample career guidance opportunities systematically managed by career guidance cell of the training and placement department has made a significant impact. Students could properly plan and build their career well in advance every year around 250 students secure job in industry and around 120 students prefer go for higher studies. The brake-up of students going for higher studies is as shown in figure.

Placement Unit:

- The Institute has a separate Training and Placement department headed by Dean (Training & Placement) Dr. T. R. Deshmukh. T&P department has its office and personnel and full time involved in the training, placement and counseling activities.
- The Institute is accredited by TCS and KPIT. Various renowned national & multinational companies like Capgemini, TechMahindra, Triveni Turbines, MICO-Bosch, TCS, Zensar Technologies, Just dial, Mphasis, L&T Infotech, and Persistent Sys. Pvt. Ltd. and many more.

- Over the period of past 33 Years, we have established excellent rapport with the industries. Many of our alumni are working at senior level at various industries. The Institute has signed up MOU's with several industries to seek industry interaction. Dahanu Thermal Power Plant, KPIT, Wipro Mission 10X, are the few names.

Table 4.1.7 (c) : Training & Placement Committee

Sr. No.	Name of Committed Member	Post	Department
1	Dr. N.W. Kale	Principal & Chairman	Mech Engg
2	Dr. T.R. Deshmukh	Dean T&P	MECH
3	Prof. Shrikant Deshmukh	Asst. T&P	MBA
4	Prof. Sangram Dandge	Coordinator	CSE
5	Prof. Anup Burange	Coordinator	IT
6	Prof. Milind Mohod	Coordinator	Civil
7	Dr. A.D. Shirbhate	Coordinator	MECH
8	Prof. Ravi Hirulkar	Coordinator	EXTC
9	Prof. Ninad Gawande	Coordinator	MBA
10	Prof. Devendra Bandabuche	Coordinator	MCA

Health Centre:

The Institute has a dispensary in the campus with adequate healthcare facility and an ambulance. Following is the arrangement for emergency medical care :

Medical staff to provide first-aid and medical help in emergency:

Doctor : 01

Nursing staff :

Compounder : 01

Ambulance Driver : 01

Ambulance Service:

The Institute has ambulance, model - Maruti van, Reg. no. **MH27 X – 9070**. This facility is freely available to the students, faculty and staff as and when required.

Availability of first-aid unit:

- First aid boxes with all necessary medicine kit consists of following items are available at every department:
Glucose D, Savlon, Wokadine solution, absorbent cotton wool, Eye Wash Cup, Dressing Strips, Paracetamol, Disprin, bandages, scissor, etc.
- Doctor's Examination and consulting chamber with all necessary facilities
- Dispensary
 - Air-conditioned 2 bed room
 - Oxygen cylinder
 - BP apparatus

- I.V. stand
- Bed side screen
- Dressing kit
- X-ray View box
- Wheel chair
- Stretcher

Canteen:

- The Institute has a well-furnished and hygienic canteen in the campus with approximately seating capacity of 100 persons.
 - Sitting space : 200 Sqm
 - Daily Usage : 600 -700 (Students, Faculty & Staff)
 - Daily Timing : 8.00 am to 6.00 pm

Table 4.1.7 (d) : Canteen Committee

S. N.	Name of Member	Designation
1	Dr. N. W. Kale	President
2	Dr. M.A. Pund, (CSE)	Member
3	Prof. P.M. Ingole, (W/S)	Member
4	Dr. S.S. Sonare, (FY)	Member
5	Prof. S. V. Dhopte, (IT)	Member
6	Prof. S.D. Bonkile, (Civil)	Member
7	Prof. Ms. J. N. Ingole, (Extc)	Member
8	Prof. S.S. Dandge, (CSE)	Member
9	Mr. Vaibhav Rajurkar, (II yr. CSE)	Student Representative
10	Miss Madhura S. Kalmegh, (III yr. Extc)	Student Representative

Recreational spaces for staff and students:

- Some of the departments have their own tea clubs and recreation amenities.
- Canteen facility is available for students, staff and faculty.
- Indoor and outdoor games and sports facility.

Safe drinking water facility:

- Institute provides clean and hygienic drinking water with RO water purifiers/UV filters installed in every department.
- There is a separate provision for water man backed up with four bore wells in the campus.
- Water supply is monitoring with disinfection and chlorine dose. Water is frequently tested with available chorine in bleaching powder, Ph, total solid, chloride, turbidity, color, total hardness, fluoride, sulphate, coli form, etc.

Auditorium:

- The Institute has an open type of auditorium with a seating capacity of 1200 people. It has the wide stage, huge lounge and airy passages. The staircase style seating arrangement offers the better visible span of the events.
- Seminar halls are available at every department equipped with LCD projectors and internet facility.

4.2 Library as a Learning Resource**4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?**

- Library have the following advisory committee:

Table 4.2.1 : Library Advisory Committee

Sr. No.	Library Committee Members /Departmental Library In-charge	Department
01	D. P. Gorde , Librarian	Library
02	Dr. A.S. Alvi , Prof. In-charge, Library	Computer Deptt.
03	Prof. A.V. Dhote, Co-ordinator	Mechanical Deptt.
04	Prof. V.U. Kale, Co-ordinator	Electronics Deptt.
05	Prof. S.S. Kulkarni, Co-ordinator	I.T. Deptt.
06	Prof. S.V. Deshmukh, Co-ordinator	Computer Deptt.
07	Prof . S.R. Band, Co-ordinator	Civil Deptt.
08	Prof. A.P. Kinhikar, Co-ordinator, Co-ordinator	MCA Deptt.
09	Prof. A.V. Deshmukh, Co-ordinator	MBA Deptt.
10	Dr. P.R. Deshmukh, Co-ordinator	First Year Deptt.

Following significant initiatives have been implemented by the committee to render the library services to the students more user friendly :

- Regular meetings are held between the members & librarian.
- Problems of students & faculty are discussed in the meeting and corrective measures are taken and implemented.
- Decisions regarding procurement, utilization and maintenance of the library Resources effectively are taken in the meetings
- Minutes of meetings are recorded and maintained
- As per students convenient point of view, the improvement is made in library policy.
- Library advisory committee acts as a mediator between departmental users & library.

4.2.2 Provide details of the following:

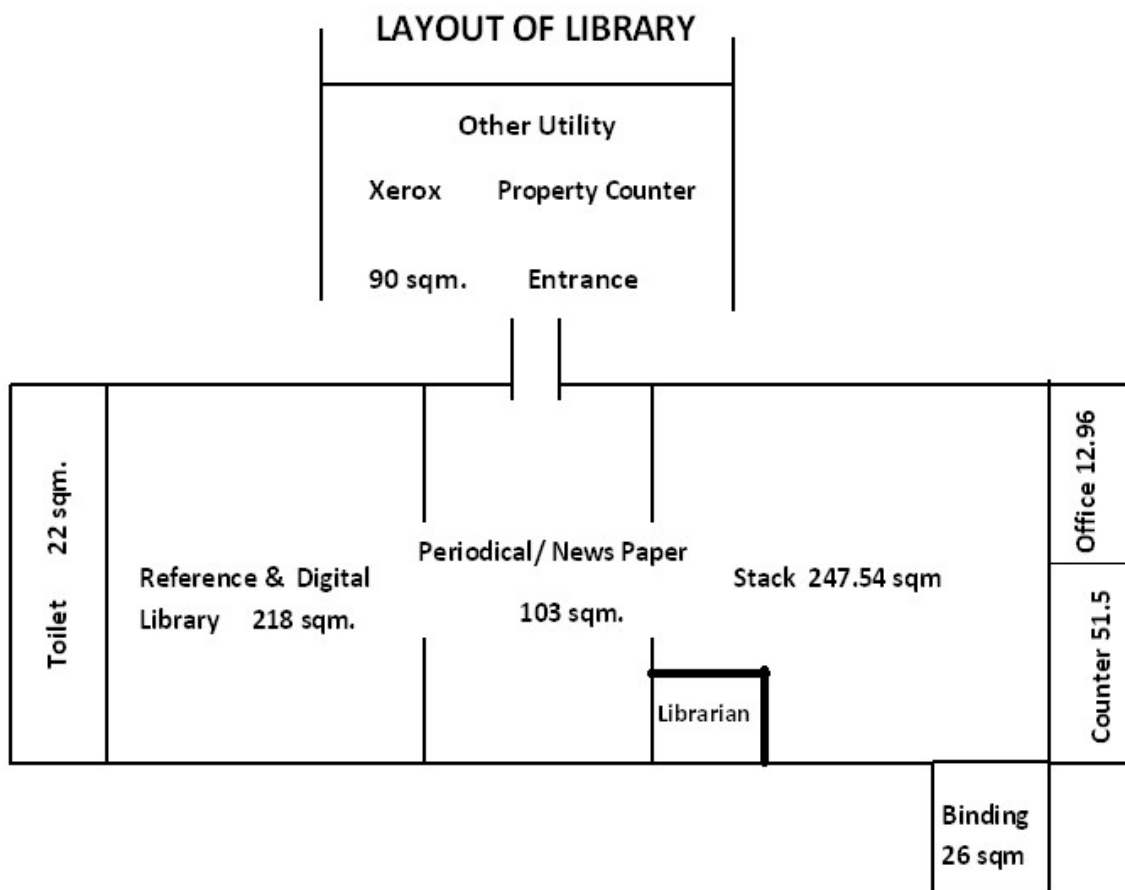
- * **Total area of the library (in Sq. Mts.)**
 - * **Total seating capacity**
 - * **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**
 - * **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
- Total area of the library(in Sq. Mts.) : 771
 - Total seating capacity : 200 students
 - Working hours (on working days, on holidays, before examination days, during examination days, during vacation)

Table 4.2.2 : Library Working Days

Days	From	To
On working days	7:30 am	5:30 pm
Before Examination days	7:30am	5:30 pm
During Examination days	7:30 am	5:30 pm
During Vacation	7:30 am	1:30 pm
On Holidays (Sunday)	Closed	Closed

- Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)

Individual reading carrels	85 Carrels
Browsing area (Stack)	247.54 sq.m.
Relaxed reading (Periodical & news paper section)	103 sq.m.
IT zone for accessing e-resources) & Lounge area (Reference Section)	240 sq.m.
Processing Section/Office/Counters/Binding	90.46 sq.m
Xerox/Property counter & Utility	90 sq.m
Total	771 Sq.m.

Figure 4.2.2 : Layout of the Library

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

- The requirement for new books is gathered from faculty members by departmental library incharge. With the recommendations from the HOD, the list of books to be procured is send to the library.
- The existing titles are varified and if required, the new titles are recommended.
- Librarian consolidates the total requirement and with the approval from Prof. Incharge and Principal, the order is placed for purchase of new titles.
- Library also organize books exhibition from time to time with the help of publishers.
- Further library has its own annual budget which is approved by management before commencement of new academic session.
- The number of new books and journals procured yearly during the last 04 years along with the total cost incurred is placed below.
- Purchase of new books and journals is made as per AICTE norms every year.

Table 4.2.3 (a) : Number of new books & journals procured during the last 4 years

Library holdings	2015-16		2014-15		2013-14		2012-13	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books	3186	1284488	701	300907	2431	688179	7718	2269916
Reference Books	94	96833	--	--	116	44032	01	9866
Journals/ Periodicals	138	162017	143	175591	154	198266	161	186521
e-resources :-								
e-books	--	--	2110	227700	1763	157500	1541	177035
e-journal	4618	1076614	8808	1041268	3540	1271939	5786	1458300
DELNET	Membership	11500	Membership	11500	Membership	11500	Membership	11500

Table 4.2.3 (b) : Department Wise Information (UG And PG Programs)

Library holdings	2015-16		2014-15		2013-14		2012-13	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books								
Civil	255	89430	158	67926	242	71602	1659	333733
Computer	338	161552	115	53363	247	89921	1008	406498
EXTC	527	249595	174	75805	455	172223	1380	392770
I.T.	591	245117	49	21368	150	68053	799	297307
MECHANICAL	609	240366	200	80085	1131	217474	1273	296349
MBA	588	198170	04	2360	67	21830	1072	344039
MCA	35	13004	--	--	--	--	475	180484
FIRST YEAR	154	52461	01	--	17	3044	52	18736
HUMANITIES & SOC. SCIENCE	89	34793	--	--	122	44032	--	--
TOTAL	3186	1284488	701	300907	2431	688179	7718	2269916

Table 4.2.3 (c) : Number of Reference Books & journals procured during the last 4 years

Library holdings	2015-16		2014-15		2013-14		2012-13	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Reference Books								
All Branches	94	96833	--	--	116	44032	01	9866
Journals/Periodicals								
Civil	15	7840	16	6300	20	21250	19	12770
Computer	16	33936	14	30380	14	25000	16	20350
MCA	15		14		14			

EXTC	14	9159	17	18750	20	16700	20	17900
I.T.	09	8752	12	9300	15	15300	14	22000
MECHANICAL	12	13050	16	17400	15	19000	16	16450
MBA	25	54900	24	49104	24	49370	25	49840
FIRST YEAR	09	17220	09	17920	12	23970	12	22970
HUMANITIES & SOC. SCIENCES	23	17160	21	13715	22	12390	25	24540
TOTAL	138	162017	143	162869	156	182980	161	186820
E-resources								
Computer	1-74	445607	161	395010	145	370500	175	303537
EXTC								
I.T.								
MCA	275	562307	149	207460	275	225737	275	381988
MECHANICAL			27	168696	26	158210	33	129576
CIVIL			35	202686	34	184860	1078	212923
FIRST YEAR			--	--	3649	265216	171	167210
HUMANITIES & SOC. SCIENCES	4169	68700	4345	67416	3335	67416	4054	263066
MBA								
e-Books for All Branches	--	--	* 2110	227700	* 1763	157500	* 1541	177035
TOTAL	4618	1076614	8808	1268968	7464	1429439	5786	1635335
Any other (specify) Note:- * are not included in total								
DELNET	Membership	11500	Membership	11500	Membership	11500	Membership	11500

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- * OPAC
- * Electronic Resource Management package for e-journals
- * Federated searching tools to search articles in multiple databases
- * Library Website
- * In-house/remote access to e-publications
- * Library automation
- * Total number of computers for public access
- * Total numbers of printers for public access
- * Internet band width/ speed □ 2mbps 10mbps 1 gb
- * Institutional Repository
- * Content management system for e-learning
- * Participation in Resource sharing networks/consortia (like Inflibnet)

- **OPAC**

With the help of Libsys Software, the OPAC service has been provided for searching the books. For queries regarding finding a particular book, OPAC gives the Accession number, call number of the books and a location.

- **Electronic Resource Management package for e-journals**

The Electronic resource management package has been subscribed for e-journals.

Following e-resources has been subscribed for the year 2016 :

1) IEEE

2) Science –Direct

3) J-Gate (Management)

For these services 19 Computers are available in Digital Library Section. The access of e-resources is also available in Departmental Library through Intranet LAN in campus.

- **Federated searching tools to search articles in multiple databases :-**

Through Libsys OPAC

- **Library Website :**

Included in Institute website - www.mitra.ac.in

- **In-house/remote access to e-publications**

The in-house access to e-publication is available. For the in-house access, 19 dedicated terminals with internet connectivity of 10+20+50 mbps speed is available.

- **Library automation**

Libsys-4 software along with web OPAC is in operation.

- **Total numbers of printers for public access**

There are 02 Printers are available for public access.

- **Internet band width/ speed**

□ 2mbps □ 10 mbps □ 1 gb

BSNL Broadband Leased Lines : 03 separate

Total = 10 + 20 + 50 mbps

- **Institutional Repository**

- Main server for NPTEL facility.
- Main server for Libsys Software.
- Document scanner for scan any document.
- Multimedia computers for the access of e-resources with Internet connection.
- TV for display Instructions, Notices, Library information to the users.

- **Content management system for e-learning**

For this facility, the main server for NPTEL in library has been maintained. Users can access in library also can be access through Intra-net in the college campus.

▪ **Participation in Resource sharing networks/consortia (like Inflibnet)**

The library is one of the members of DELNET from last ten years. DELNET is a resource sharing network.

4.2.5 Provide details on the following items:

- * Average number of walk-ins
- * Average number of books issued/returned
- * Ratio of library books to students enrolled
- * Average number of books added during last three years
- * Average number of login to opac (OPAC)
- * Average number of login to e-resources
- * Average number of e-resources downloaded/printed
- * Number of information literacy trainings organized
- * Details of “weeding out” of books and other materials

* **Average number of walk-ins**

Yearly	1,33,287
Monthly	11,107
Weekly	2,592
Daily	370

* **Average number of books issued/returned**

Period	Issued	Returned
Yearly	45814	42080
Monthly	3817	3507
Weekly	890	818
Daily	127	117

* **Ratio of library books to students enrolled :**

Books to student ratio - 18:1

* **Average number of books added during last three years**

1295 Books per year

* **Average number of login to opac (OPAC)**

25 users per day

*** Average number of login to e-resources**

IEE	43298
Springer	590
Access Engineering	2509

*** Average number of e-resources downloaded/printed**

IEE	5447
Springer	295
Access Engineering	61

*** Number of information literacy trainings organized**

- One day workshop on National Program on Technology Enhanced Learning (NPTEL) awareness

*** Details of "weeding out" of books and other materials**

"Weeding out" Date	No. of Weeding out Books	Amount
2008	4731	4,58,604/-
2012	5000	13,95,411/-

4.2.6 Give details of the specialized services provided by the library

- * Manuscripts
- * Reference
- * Reprography
- * ILL (Inter Library Loan Service)
- * Information deployment and notification (Information Deployment and Notification)
- * Download
- * Printing
- * Reading list/ Bibliography compilation
- * In-house/remote access to e-resources
- * User Orientation and awareness
- * Assistance in searching Databases
- * INFLIBNET/IUC facilities

*** Manuscripts**

Nil

*** Reference :**

Following category of reference books is available in reference section :

Table 4.2.6 : Category of Reference Books Available

Sr. No.	Category Ref. Books	No. of Books
01	DATA BOOK	08
02	DICTIONARY	46
03	DIRECTORY	27
04	ENCLYCLOPEDIA	208
05	REFERENCE BOOK	09
06	HAND BOOK	267
07	PROCEEDINGS & CONFERENCE REPORT	106
08	CIVIL REF. BOOKS	210
09	ELECTRONICS REF BOOKS	114
10	COMPUTER REF BOOKS	68
11	MECHANICAL REF BOOKS	199
12	I.T. REF BOOKS	45
13	MANAGEMENT REF. BOOKS	85
14	COMPETITIVE EXAM BOOKS	456
TOTAL BOOKS		1848

*** Reprography :**

Reprography facility is available in library.

*** ILL (Inter Library Loan Service) :**

Yes, we have provided the Inter Library Loan service.

*** Information deployment and notification (Information Deployment and Notification)**

Through inter library loan & DELNET New Arrivals, Journals Content Pages, e-resources are received through Internet & distributed access through Intra-net in the campus.

*** Download :**

As per yearly subscription of e-resources, the content pages of e-resources for ready reference are downloaded and users also download the required information.

*** Printing :**

Some content pages of e-resources are also maintained in hard copy. This facility is also available for users. They can take a print out of any required document.

*** Reading list/ Bibliography compilation :**

With the help of OPAC, we provide the reading list.

*** In-house/remote access to e-resources :**

Two library servers are available in library, which are connected through LAN to all departments, so that user can get access to e-resources, OPAC, DELNET, NPTEL, etc.

*** User Orientation and Awareness :**

1. Library had arranged one day workshop on National Programme on Technology Enhanced Learning (NPTEL) Awareness.
2. Every year we provide awareness about library services rules & regulations and library collections.

*** Assistance in Searching Databases :**

With the help of Libsys Software, we provide OPAC service for searching library database.

*** INFLIBNET/IUC Facilities :**

We are providing the DELNET facility since last ten years.

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

In the following way, library staff supports the students & teachers of the Institute :

- First of all, whenever library user enters into the library, the staff supports user by explaining him detail about, how to search library collection. Staff provides all information about the locations of various services to the user.
- When user does not find required material/book of his choice, library staff suggests him similar titles by different authors/publishers. In this way library staff support library user. We never send library user an empty hand and always give him something to read. In this way library staff spread the importance reading books.
- If library user do not find any material/book in the library & which is not available in our library, we suggest user to get inter library loan or tell him where he will get the required material/book. In this way we help the user to get require material

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

- For visually/physically challenged person, the audio /video facility is available.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

- We get suggestions in suggestion box and an oral feedback from the users. The library committee takes care of each and every suggestion/complaint and incorporate the necessary changes in library system.

4.3 IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution.

- Number of computers with Configuration (provide actual number with exact configuration of each available system)

- Total Computers : 1027 with 12 Servers

Table 4.3.1 : Details of Computer Systems Available in PRMITR Campus

Sr. No.	System Configuration	Number of Computers
1	Dell Inspiron 3: INTEL Core i5, 2.9 GHz, 4 GB RAM, 500 GB HDD, 2 GB Graphics Card, LED Monitor 22", Keyboard, Mouse.	100
2	DELL Optiplex: INTEL Core i3, 03 GHz, 4 GB RAM, 250 GB HDD, HD Graphics, 18.5" LED TFT Monitor 18.5", Keyboard, Mouse.	244
3	DELL Optiplex: INTEL Core i3, 03 GHz, 4 GB RAM, 500 GB HDD, 18.5" LED TFT Monitor 18.5", Keyboard, Mouse, etc.	60
4	HP Desktop: Dual Core, Intel Motherboard, 4GB RAM, 500GB HDD, 18.5 LED Screen, Keyborad, Mouse	50
5	Dell Desktop Top: INTEL Dual Core, 4 GB RAM, 500 GB HDD, 15.6" Monitor, Keyboard, Mouse.	40
6	HP Dream Screen (All-in-One) Intel Atom 1.8 GHz, 2 GB RAM, 250 GB HDD, Wi-Fi Adapter, Keyboard, Mouse, DVD R/W.	52
7	Lenovo (All-in-One): Intel Atom 1.08 GHz, 1 GB RAM, 320 GB HDD, Wi-Fi Adapter, USB Keyboard, Mouse, CD R/W.	110
8	COMPAQ (All-in-One) PC MODEL NO: CQ1-10201X Intel Atom Processor 1.66 GHz, 1 GB RAM, 320 GB HDD, 18.5" TFT Display, INTEL 3150 Graphics, Dual Writer.	121
9	eSys: Intel Dual Core 2.6 GHz, 1GB RAM, 160 GB HDD, 15.6" Monitor, Wi-Fi, USB Keyboard Mouse, DVD R/W.	100
10	WIPRO New: Pentium Dual Core CPU, 2.6 GHz, 2 GB RAM, 320 GB HDD, Keyboard, Mouse.	30
11	WIPRO: Pentium D CPU, 2.8 GHz, 512 MB RAM, 80 GB HDD, NIC Card, PS-2 Keyboard, Mouse.	50
12	Intel Celeron: 1.7 GHz, 256 MB DDR RAM, 40 GB HDD, Moitor, Keyboard, Mouse. (White Box)	30
13	LAPTOP HP (3rd Generation) Intel i5 Processor, 4GB RAM, 500 GB HDD, 14" Screen.	1
14	LAPTOP (DELL Inspiron) Intel i5, 4GB RAM, 500 GB HDD, 15.6 Screen, Wi-Fi Enable, DVD R/W.	1

15	LAPTOP (HP-540) Intel ® Core 2 Duo CPU T5270 1.40GHz, 1 GB RAM, 320 GB HDD, Wi-Fi, 15.6" Screen.	30
16	LAPTOP Compaq Intel Celeron 1.86 GHz, 1GB RAM, 120 GB HDD, 15" Screen, DVD R/W.	1
17	LAPTOP Lenovo 512 Intel Celeron 1.6 GHz, 512 MB RAM, 60 GB HDD, 15" Screen, DVD R/W.	5
18	LAPTOP Lenovo Intel Celeron 1.6 GHz, 1 GB RAM, 250 GB HDD, 10.2" Screen, DVD R/W.	1
19	LAPTOP (HP-520) Intel Celeron 1.86 GHz, 1GB RAM, 120 GB HDD, 15" Screen, DVD R/W	1
Total		1027

- **Computer-student ratio:**

For UG - 1 : 4

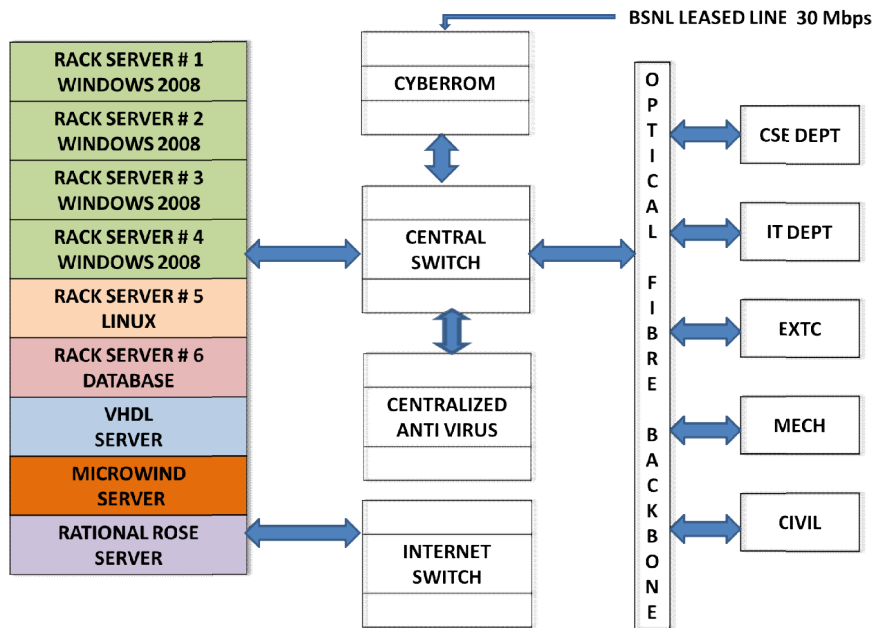
For PG - 1 : 2

- **Stand-alone facility :**

Yes, Available - PCs : 127

- **LAN facility :**

All computer systems in campus are in LAN with Fiber Optic Back Bone.

Figure 4.3.1 : Campus Computer Network

- **Wifi facility:**

The entire campus is WiFi. Mictek Wireless boards are installed at 3 places in the college premises. Each Switch Range is 1 km (in front direction).

- **Licensed software :**

Ample number of licenced software are available centrally as well as department wise.

- **Number of nodes/ computers with Internet facility : 900**

- **Internet :**

There is 80 Mbps (03 separate leased lines of 10 + 20 + 50 Mbps) broadband internet connectivity from BSNL.

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

- All teachers are provided with computing facilities such as personal computers, laptop, printers, scanner etc., and have got unlimited access to the High Speed Internet facility. Students can freely access to all computing facility as well as peripherals available in the institute.

Tablets : 250 Nos. AAKASH Tablets are available, provided by IITB, CDEEP under NMEICT project. These tablets are also made available to the students for learning and designing projects.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- The plans for infrastructural development are given top priority as the Institute realizes the correlation between adequate infrastructure and effective teaching – learning. The strategies adopted for ensuring adequate infrastructure are as follows:
- Institute frequently reviews the IT infrastructure as per requirement of the Institute. The IT infrastructure strategies are developed as per the guidelines of AICTE. Software and hardware are upgraded regularly and as and when a demand for the same arrives.
- At the beginning of every academic year, the need-assessment for replacement /up gradation/ addition of the existing infrastructure is carried out based upon the suggestions from Heads of departments, Lab in-charges of respective laboratories and System administrator. The authorities review course requirements, computer-student ratio, budget constraints, working condition of the existing equipment and also teacher-students grievances.

4.3.4 Provide details on the provision made in the annual budget for procurement, upgrading, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

- The procurement, upgrading, deployment and maintenance of computers and their accessories in the institution and the detail of budgetary provision is given below:

Table 4.3.4 : Budget Provision, Procurement, Upgrading, Deployment & Maintenance of Computer and Accessories

Year	Consumables	Repairs	Computer/ Equipment Purchase	Total
2012-2013	Rs. 10,00,000/-	--	Rs. 62,00,000/-	Rs. 72,00,000/-
2013-2014	Rs. 31,75,000/-	Rs. 3,00,000/-	Rs. 1,50,00,000/-	Rs. 1,84,75,000/-
2014-2015	Rs. 21,67,900/-	Rs. 7,41,805/-	Rs. 1,99,26,980/-	Rs. 2,28,36,685/-
2015-2016	Rs. 44,80,000/-	Rs. 1,00,000/-	Rs. 1,25,17,300/-	Rs. 1,70,97,300/-
2016-2017	Rs. 47,80,000/-	Rs.5,00,000/-	Rs. 59,40,000/-	Rs. 1,12,20,000/-

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

- The Institute has adequate computer facility for staff and students. The faculty members are provided with computers and open internet facility for the preparation of teaching material.
- The faculty members are encouraged to use audio-visual presentations for content delivery.
- The classes are equipped with LCD projectors and internet connectivity.
- NPTEL services and other e-learning resources are available for self-paced learning that supplements regular lectures.
- DELNET service is available.
- Library system is fully computerized with LIBSYS software.
- OPAC facility (On Line Public Access Catalogue) is available.
- Availability of online Journals (e-Journals: IEEE, Elsevier-Science Direct, J-GATE)

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

- IIT Bombay, Remote Centre of CDEEP: The Centre for Distance Engineering Education Programme (CDEEP) facility of e-learning has been introduced on 1st December 2008 to enable the students and teachers to keep pace with the technological advancements through expert lectures and workshops from IIT experts. This system enables interaction between the IIT experts and students and teachers through video conferencing, making teaching learning more effective.
- SPOKEN Tutorial Project by IIT Bombay for MHRD under activity of NMEICT: (Started in April 2014) The Spoken Tutorial Project is about teaching and learning a particular FOSS (Free and Open Source Software) like Linux, Scilab, LaTeX, PHP & MySQL, Java, C/C++, and LibreOffice etc. via an easy Video tool - Spoken Tutorials. Students can learn independently through watching Videos and latter appear for test for learned skill test.
- VIRTUAL Lab Project by MHRD under NMEICT: To provide remote-access to Labs in various disciplines of Engineering and Science. Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars. Help students in learning basic and advanced concepts through remote experimentation. Students are avail with the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self evaluation.
- DELNET Services

- NPTEL Services
 - Fully Computerised Library System with LIBSYS Software
 - OPAC (On Line Public Access Catalogue)
 - Educational CDs
 - Online Journals (e-Journals: IEEE, Elsevier-Science Direct, J-GATE)
 - AAKASH Tablet (250 Nos. provided by IITB, CDEEP under NMEICT project).
- All teachers are provided with computing facilities such as personal computers, laptop, printers, scanner etc and have got unlimited access to the High Speed Internet facility. IITB, CDEEP under NMEICT provided tablet which are also made available to the students for learning.
 - As mentioned above, library has rich amount of books, e-resources, the process for on-line membership of standard journals such as IEEE, Springer, Elsevier etc. has been initiated to facilitate research.
 - Every department has got LCD projectors and all class rooms, Laboratories have the facilities for use of LCD projectors. Teachers are able access and refer to on-line resources from classrooms through Wi-Fi LAN.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

- Institute is part of MHRD, NMEICT project and having MoU with IIT Bombay CDEEP Remote Centre.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

- Utmost care is taken for budget allocation considering financial resources for providing maintenance support for the entire Institute facilities. Keeping in view the priorities department-wise, equipment-wise and also to fulfil the academic needs of the students, budgeted amounts is utilized.
- There is a separate Maintenance Department headed by civil engineer and regular supporting staff for the maintenance of premises, plumbing and sanitation system.

The details of maintenance of academic infrastructure and facilities are given below:

Table 4.4.1 (a) : Maintenance of Academic Infrastructure & Facilities

Sr. No.	Academic Infrastructure	Maintenance	Staff In-Charge & Dept.
1	Computers and Printers	Systems Manager	Dr. C.A. Dhote
2	EPABX system	EXTC Department	Shri S.S. Gole
3	RO/UV water purifiers	Liquipure Water Technologies, Amravati	S.S. Deshpande
4	Reprography	Vision System, Nagpur	Mr. S.B. Hiwse
5	Central library and reading hall	Library Staff	Shri. D.P.Gorde
6	Central computing facility	Computer Department	Prof. S.P.Akarte
7	Webmaster, Maintenance of Institutional website	Computer Department	Dr. S.R. Gupta
8	Power backup Powerika Gen set, 125 KVA	Midland Diesels Services Pvt. Ltd., Nagpur	Mr. Dilip Wagh
9	Seminar hall	Contract maintenance	S. S. Deshpande
10	Assembly hall	Contract maintenance	S. S. Deshpande
11	Dispensary	Contract maintenance	S. S. Deshpande
12	Cafeteria	Contract maintenance	S. S. Deshpande
13	Play ground	In-house maintenance	S. S. Deshpande
14	ATM Bank	SBI Bank	Branch Manager
15	Internet Security	Antivirus Software	Dr. S.R. Gupta
16	Covered parking	In-house maintenance	S. S. Deshpande
17	Cleaning	Maintenance Dept	Mr. Ashok Dukre
18	Fire Extinguisher	AMC, Muzumdar Enterprises	S. S. Deshpande
19	Electrical	In-house maintenance	Mr. Dilip Wagh
20	Furniture	In-house maintenance	S. S. Deshpande
21	Civil work	In-house maintenance	S. S. Deshpande
22	Plumber	In-house maintenance	Mr. Dilip Wagh
23	Campus Security	N.I.S. Securities, Nagpur	S. S. Deshpande
24	Garden	Maintenance Department	S. S. Deshpande
25	Lift	Johnson's Lift Pvt. Ltd. Amravati Branch Office.	S. S. Deshpande
26	Servilience System, CC TV Cameras	Constek IT Solution, Rathi Nagar, Amravati	Prof. V.U. Kale
27	Attendance Reporting System	Aspen Systems & Software, Pune	Dr. S.S.Deshmukh

The details of budget allocation and amount spent on maintenance of facilities during last four years are mentioned down below :

Table 4.4.1(b) : Budget & Amount spent for maintenance of facilities in last 4 years

S.No.	Academic Infrastructure	2012-13		2013-14		2014-15		2015-16	
		Budget Alocated	Amount Utilized	Budget Alocated	Amount Utilized	Budget Alocated	Amount Utilized	Budget Alocated	Amount Utilized
1	Computers and Printers	600,000	569,241	600,000	529,368	500,000	449,619	300,000	238,739
2	RO/UV Water purifier	-	-	-	-	1,000	700	50,000	44,860
3	Reprography	50,000	48,000	60,000	52,000	75,000	55,000	70,000	62,000
4	Webmaster, Maintenance of Institutional Website	30,000	22,000	10,000	9,057	10,000	3,371	35,000	28,152
5	Power backup, Powerika Gen. Set	125,000	118,270	225,000	213,224	400,000	394,786	325,000	306,916
6	Dispensary	150,000	115,643	50,000	14,006	50,000	49,193	50,000	33,092
7	Play Ground	450,000	405,000	25,000	12,800	-	-	-	-
8	Internet Security	100,000	97,397	250,000	238,140	150,000	134,165	100,000	96,358
9	Cleaning	700,000	619,677	1,350,000	1,300,940	2,500,000	2,340,000	2,000,000	1,760,000
10	Fire Extinguisher	Nil	Nil	15,000	13,794	20,000	17,388	Nil	Nil
11	Electrical	900,000	827,232	1,000,000	901,489	900,000	847,235	200,000	171,749
12	Furniture	750,000	703,250	400,000	375,072	200,000	283,554	-	-
13	Civil Work	1,500,000	1,319,758	6,000,000	5,660,661	1,500,000	1,269,307	700,000	676,365
14	Plumber	250,000	215,391	225,000	221,000	250,000	244,000	-	-
15	Campus Security	3,500,000	3,325,833	4,500,000	404,228	5,000,000	4,629,502	3,000,000	2,858,650
16	Garden	600,000	565,000	900,000	851,000	1,300,000	1,259,000	1,000,000	906,000
17	Lift (Ann.M.Cost)	NA				Installation, Hence Warranty Period 05/02/2015 To 04/02/2016			
	Total	9,705,000	8,951,692	15,610,000	10,796,779	12,856,000	11,976,820	7,830,000	7,182,881

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- Separate departments and personnel are available for maintenance and repairing of electrical lines, equipments, buildings & civil work, computing services and garden.
- Lab equipments are serviced by the concerned manufacturers, service personnel and lab technicians of the departments.
- Wherever necessary, the annual maintenance contract is done with the supplier.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

- Electrical and Mechanical equipment are taken up for calibration whenever equipment requires the calibration.
- The respective lab in-charge decides about the calibration based upon retarded performance of the equipment/machine.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)? Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

- Generator and power backup units are kept under separate area to prevent any damages due to unintended interference by anybody irresponsible.
- Proper information is displayed for each machine and other equipment in the laboratories for the sake of safety operation.
- During the power cuts, electrical supply is ensured in the campus by 125 KVA generator. The voltage stabilizers are provided to systems and electrical equipment to stabilize the voltage fluctuation. In addition to the above, a separate 10 KVA capacity uninterrupted power supply is provided to ensure smooth operation of the servers.
- There is a separate provision for water man backed up with four bore wells to ensure the continuous supply of water in the campus.
- Water supply is monitored with disinfectant and chlorine dose. Water is frequently tested with available chlorine in bleaching powder, Ph, total solid, chloride, turbidity, color, total hardness, fluoride, sulphate, coli form (MPN/100 ml).
- Aqua guard with UV technology. The same are regularly tested & inspected by servicing agencies.

Table 4.4.4 : Water (Installed Capacity)

Department	Type of Storage Tank	Capacity (Lit)
EXTC	Overhead	10000
MECHANICAL	Overhead	12000
FIRST YEAR	Overhead	14650
CIVIL	Overhead	14650
ADMINISTRATION	Overhead	18000
WORKSHOP	Overhead	2000
FP LAB	Overhead	1000
EXTC	Open Tank	20000
MECHANICAL	Open Tank	20000

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

- Institute publishes its updated prospectus every year. It gives information about the vision and mission of the Institute and major details about the institutional infrastructural and courses available. Additionally, all the relevant information is notified through notice board and Institute's website from time to time. The institute also provides Academic Calendar of the university and Institute indicating teaching days, vacations, examination period and dates of important activities and events. All the above information is displayed on student's notice boards at respective departments.
- Institute strictly follows the academic calendar published by SGBAU and the calendar prepared by Dean (Academics) at Institute level.
- Institute implements the academic calendar by circulating it to all departments and ensures its implementation time to time by taking feedback through meetings with HODs during the semester.

5.1.2 Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

- Institute awards Freeships to the meritorious students who show excellent performance in SGBAU summer examination.
- Institute also offers scholarships/fee waiver to economically backward, needy students.
- Institute offers partial financial assistance to the wards of non-teaching employees of the Institute.
- Following tables show the provision of amount disbursed every year as freeship :

Table 5.1.2 (a) : Details of Institutional Scholarships Given to Students (2014-15)

Topper Category	No. of freeships given	Freeship (%)	Amount Refunded Rs.
University Topper from All Branches of B.E.	2	100%	81046
College Topper	3	50%	68350
Class Topper – from all branches for B.E.	12	25%	115561
Class Topper – From First Year Engg.	4	25%	65227
University Topper From MBA	1	100%	75700
University Topper – From M.E.	1	100%	5000
University Topper – From MCA	Nil	100%	Nil
Total	23		410884

Table 5.1.2 (b): Details of Institutional Scholarships Given to Students (2013-14)

Topper Category	No. of freeships given	Freeship (%)	Amount Refunded Rs.
University Topper from All Branches of B.E.	1	100%	70500
College Topper from All Branches of B.E. (Including First Year)	3	50%	85415
Class Topper – from all branches for B.E.	12	25%	183268
University Topper From MBA	1	100%	75700
University Topper – From M.E.	1	100%	72145
University Topper – From MCA	1	100%	61119
Total	19		548147

Table 5.1.2 (c) : Details of Institutional Scholarships Given to Students (2012-13)

Topper Category	No. of freeships given	Freeship (%)	Tuition Fee Rs.	Amount Refunded Rs.
University Topper from All Branches of B.E.	1	100%	59960	59960
College Topper from All Branches of B.E. (Including First Year)	3	50%	225052	112526
Class Topper – from all branches	12	25%	837740	209438
University Topper From MBA	Nil	100%	Nil	Nil
University Topper – From M.E.	Nil	100%	Nil	Nil
University Topper – From MCA	Nil	100%	Nil	Nil
Total	16		1122752	381924

Table 5.1.2 (d) : Details of Institutional Scholarships Given to Students (2011-12)

Topper Category	No. of freeships given	Freeship (%)	Tuition Fee Rs.	Amount Refundable Rs.
University Topper from All Branches of B.E.	1	50%	50000	25000
College Topper from All Branches of B.E. (Including First Year)	3	25%	203571	50892
Class Topper – from all branches	12	10%	691426	69143
University Topper From MBA	Nil	100%	Nil	Nil
University Topper – From M.E.	Nil	100%	Nil	Nil
University Topper – From MCA	Nil	100%	Nil	Nil
Total	16		944997	145035

Table 5.1.2 (e) : Details of Institutional Fee Waiver in Tuition Fees to Students

Sr.No.	Course/ Course Year	No. of Students Benefitted	Amount Rs.	Academic Year
1	MBA – I YEAR	6	270000	2013-14
2	MBA – I YEAR	50	699134	2014-15
3	MBA – II YEAR	3	153000	2014-15
4	MBA – I YEAR	52	569310	2015-16
5	MBA – II YEAR	29	540425	2015-16
6	MCA – I YEAR	21	208400	2015-16
7	B.E. (DSY) CSE	1	58809	2015-16

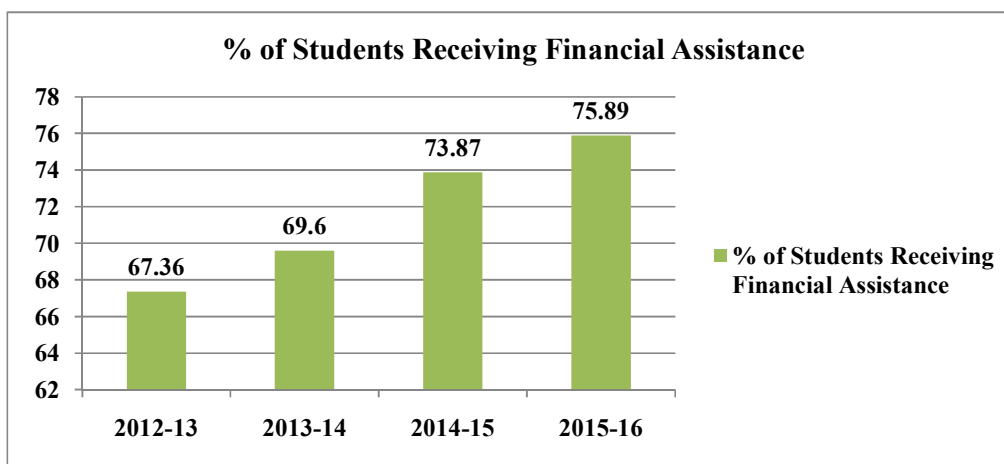
Table 5.1.2 (f) : Details of Institutional Fee Waiver in Tuition Fees to Students

Sr.No.	Course/ Course Year	No. of Students Benefitted	Amount Rs.	Academic Year
1	M.E. (All Branches)	26	7,24,854	2014-15
2	M.E. (All Branches)	31	9,87,840	2015-16

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

Table 5.1.3 : % of Students Received Financial Assistance from State Govt., Central Govt. & Other National Agencies

Year	No. of Students admitted in the Institute	No. of Studnets who Received Financial Assistance from State/ Central Govt. / Othre Agencies	% of Students Receiving Financial Assistance
2015-16	3966	3010	75.89
2014-15	3912	2890	73.87
2013-14	3731	2597	69.60
2012-13	3579	2411	67.36

Figure 5.1.3 : Bar Chart Showing % of Students Receiving Financial Assistance

5.1.4 What are the specific support services/facilities available for

- ✓ **Students from SC/ST, OBC and economically weaker sections**
- ✓ **Students with physical disabilities**
- ✓ **Overseas students**
- ✓ **Students to participate in various competitions/National and International**
- ✓ **Medical assistance to students: health centre, health insurance etc.**
- ✓ **Organizing coaching classes for competitive exams**
- ✓ **Skill development (spoken English, computer literacy, etc.,)**
- ✓ **Support for "slow learners"**
- ✓ **Exposures of students to other institution of higher learning/ corporate/ business house etc.**
- ✓ **Publication of student magazines**

Students from SC/ST, OBC and economically weaker sections :

- The students belonging to SC/ST, OBC and the economic weaker sections are given admissions as per the State Government reservation policy. All the benefits prescribed by State Government for above categories are availed by the students. These students are financially supported by State Government through reimbursement of fees, special scholarships, etc.
- These students are provided every possible help during their stay in the college at large.

Students with physical disabilities

- Entry in Academic Blocks through ramp, and lift facility is available in main buildings.
- Medical and emergency Ambulance facility.
- Information on various scholarships and funding agencies.
- Understanding and helpful faculty & staff.
- One to one help in library and canteen

Overseas students

- The institute does not have any NRI student on its strength.

Students to participate in various competitions / National and International

- Permission is given to students for participation in various competitions.
- Reimbursement for Registration fee, TA/DA for winners and gainers.
- Partial/ Full sponsorship of project hardware/ software cost.

Medical assistance to students: health centre, health insurance etc.

- Dispensary with Ambulance is available in the campus with doctor and first aid facilities.
- The Institute is having linkage with Parashree Superspeciality Hospital at Amravati.

Organizing Coaching Classes for Competitive Exams

- Institute regularly conducts Personality Development Programmes/ soft skill classes/ aptitude classes for the preparation of campus placement.
- Special coaching classes are conducted like GATE for certain subjects.

Skill Development (Spoken English, Computer Literacy, etc.,)

- To enhance the communication skills of the students, use of special software equipped with audio facility is provided in the Language Laboratory.
- CAD and Computer training classes are conducted at department levels by professional agencies, like Indo German Tool Room, and others.
- The content beyond syllabus are taught in almost all subjects.

Support for “slow learners”

- Every faculty acts as a mentor for a group of slow learners.
- Regular counseling of students is done over academic issues for slow learners.
- Remedial courses are conducted.
- Supplementary materials are provided.

Exposures of students to other institution of higher learning/corporate/business house:

- Participation of students in Technical/ Cultural Fest, paper poster presentations in conferences and seminars of other institution.
- In-plant training/ Industrial visits and projects in other institutions.
- Participation in extracurricular activities like debates, Quiz and hands on training like workshops organized by other institutions.
- Student participation in cultural, TV and radio shows.
- Final semester projects in reputed research institutes and industries.
- Publication of student magazines: “Vibrations” is college annual magazine published by students, faculty editorial Board.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

- Institute has a separate Entrepreneurship Development Cell
- A grant-in-aid has been fetched from AICTE of Rs. 7,00,000/- in 2013 under the Programme “ENTREPRENEURSHIP DEVELOPMENT CELL”.
- EDC supports & nurtures incubatees through dissemination of knowledge & technology through meets, conferences and training programs.
- Following Tables represent the ED cell office bearers and details of ED cell activities respectively.

Table 5.1.5 (a) : Entrepreneurship Development Cell (EDC) Members

S. No.	Name	Designation
1	Prof. Dr. A.U. Awate	In-charge, EDC
2	Prof. A.S. Deshmukh	Coordinator, Civil Department
3	Prof. A.S. Deshmukh	Coordinator, Mechanical Department
4	Prof. S.V. Deshmukh	Coordinator, Computer Department
5	Prof. N.S. Thakare	Coordinator, Electronics Department
6	Prof. N. V. Kadam	Coordinator, IT Department
6	Prof. Yuvaraj Vaidya	Coordinator, M.B.A. Department
7	Prof. D.R. Bandabuche	Coordinator, M.C.A. Department

Table 5.1.5 (b) : Details of ED Cell Activities (Last 4 years)

S. No.	Event	Organizer	Duration	Date	No. of Participants
1	Guest Lecture on “Role of Business Management Studies in Civil Engineering Practices.”	ED Cell PRMIT & R Badnera	1 hour	12/07/13	90 students
2	Entrepreneurship Awareness Camp	ED Cell PRMIT & R Badnera & MITCON Amravati	3 days	30/08/13 To 01/09/13	100 students
3	Workshop on “Android related mobile apps development- Mobipreneur”	ED Cell PRMIT & R Badnera & ED Cell IIT Delhi & NTA Delhi	2 days	20/09/13 To 21/09/13	146 students
4	Participation in FDP on Entrepreneurship	EDI (India) Ahmedabad	9 days	16/12/13 To 27/12/13	01 Faculty
5	Participation in FDP in Entrepreneurship	ED Cell SSGMCOE Shegaon	10 days	12/12/13 To 24/12/13	02 Faculties
6	Purchase of Equipment for EDC worth 3 lacs. 1.Intreacive Board 2.Digi Canvas 17” 3.Visulizer Lumens PS-750 4.LED TV Lloyd 50”	EDC PRMIT&R	NA	12/02/2014	NA
7	“IPL Auction” a competition to enhance entrepreneurial skills	EDC PRMIT&R	2 days	23/02/2015 To 24/02/2015	40 students
8	Guest Lecture on “Entrepreneurship Opportunities in Vidarbha” by C.A. Mr. Vijay Jadhao	EDC PRMIT&R	2 hours	12/03/2015	100 students
9	Interaction with Successful Entrepreneur Mr. S.S. Supe Gukss Industries MIDC Amravati	EDC Coordinator Mechanical Dept.	2 hours	09/01/2016	225 students
10	Interaction with Successful Entrepreneur Mr. Sanjay Gupta	EDC Coordinator Mechanical Dept.	2 hours	30/09/2015	110 students

	Tyrozon Amt. & Mr. Manoj Darokar Tirupati Industries Kurha.				
11	Interaction with Successful Entrepreneur Mr.Nitin Mandawale Enterprise Software Development Pune	EDC Coordinator IT Dept.	2 hours	28/08/2015	92 students
12	Interaction with Successful Entrepreneur Mr.Nitin Bhojwani Just Hands- on Software Training & Consultancy Pune	EDC Coordinator IT Dept.	2 hours	20/08/2015	83 students
13	Interaction with Successful Entrepreneur Mr.Nilesh Partani Pushparaj Creations MIDC Amravati	EDC Coordinator Civil Dept.	2 hours	16/09/2015	255 students
14	Interaction with Mr. Abhiram Dabir, Regional Manager MCED Amravati	EDC Coordinator MCA Dept.	2 hours	16/10/2015	95 students
15	Interaction with Successful Entrepreneur Mr.Ashish Tarar, Director Carrier Point Amt	EDC Coordinator MBA Dept.	2 hours	01/09/2015	95 students
16	MoU with MCED Amravati	ED Cell PRMIT & R Badnera & MCED Amravati	-	29/12/2015	-
17	Entrepreneurship Awareness Camp	ED Cell PRMIT & R Badnera & NYEDC Pune	2 days	09/10/2015 To 10/10/2015	100 students
18	Guest Lecture on “Women Entrepreneurship” by Smt. Ujjawala Haware, MD Haware Builders Navi Mumbai	ED Cell PRMIT&R Badnera	2 hours	03/03/2016	100 students
19	A competition on Entrepreneurship Skill - IPL Auction	ED Cell PRMIT & R Badnera	1 days	15/02/2016	200 students
20	Online “Business Incubation Platform” in collaboration with Masterminds Pvt. Ltd.	ED Cell PRMIT & R Badnera	12 Months	March 16 To March 17	Open for all students & faculty
21	Participation in FDP on Entrepreneurship	IISc Banglore	5 days	18/04/16 To 22/04/16	02 Faculties
22	Submission of proposal for “Atal Incubation Center” to NITI Ayog Govt. Of India.	ED Cell PRMIT & R Badnera	1 Month	Submitted on 20/07/2016	-
23	Submission of proposal for “Business Incubation Scheme” to Ministry of MSME.	ED Cell PRMIT & R Badnera	2 Months	To be submitted by 20/08/16	-
24	Visit to start up ‘Pinnaculum Infotech Pvt. Ltd.’	EDC Coordinator CSE Dept.	1 day	22/06/16	10 Student

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

- * **Additional academic support, flexibility in examinations**
- * **Special dietary requirements, sports uniform and materials**
- * **Any other**

- The Institute always encourages students for their participation in extracurricular and co-curricular activities by giving them full support.
- The necessary facilities are provided and adequate funds are allotted by the Institute.
- A slight flexibility is given in submitting the assignments to the students working in various committees. The students are not allowed to skip the test examination, but in some unavoidable circumstances, extra tests are conducted for the students who do not appear for regular tests.
- Institute supports to organize / conduct several events every year in the Institute campus.
- Institute gives infrastructural support by way of providing instruments and other required facilities.
- Institute reimburses the expenditure amount to the students for attending games, sports, quiz, conference, debates, etc.
- The uniforms and kits required for the games and sports are also provided by the Institute.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

Table 5.1.7 : Support and guidance provided to the students in preparing for the competitive exams in 2015-16 :

Sr. No.	Name of Exam	No. of Students Appeared	No. of Students Qualified	Type of Support & Guidance Provided
1	CAT	7	1	Aptitude & personality development program
2	GRE	113	102	Group discussion & seminars
3	TOFEL	4	2	Group discussion & seminars
4	GMAT	23	10	Aptitude & personality development program
5	GATE	503	32	CBRT, technical & aptitude classes, guest lectures
6	Central/State Services	170	Awaiting	Competitive exam guidance
7	Defense	35	2	Aptitude & personality development program

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

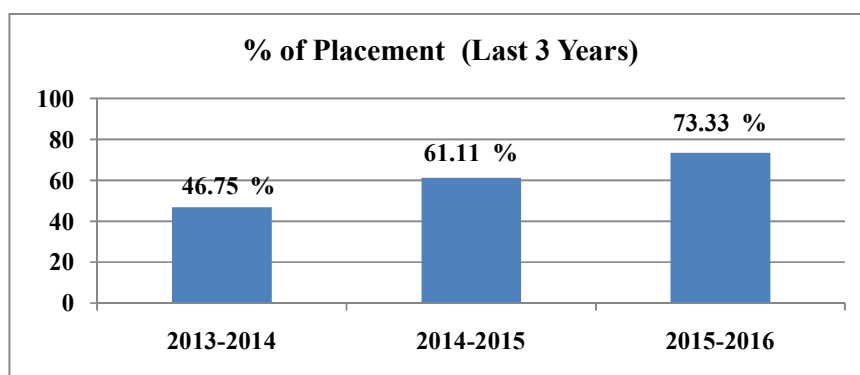
- Teacher guardian scheme has been implemented for the counseling of the students. Approximately 20 students are allotted to the every senior faculty members. These faculty members acts as mentors for students and provides them academic, career and personal guidance.
- The career related counseling and guidance is provided by the training and placement coordinators from every department and the T&P department.
- The psycho social guidance is provided to the students by two counselor clinical doctors outside the campus.
- There is a separate lady counselor for the girl students.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

- The Institute has a structured mechanism for career guidance and very effectively renders the information regarding career planning to the students, through its career guidance cell.
- The career guidance cell which is a part of Training and placement department conducts self assessment seminar every year for second year students. This helps the students in deciding the gray areas that need improvement. The aptitude of the students is also reflected upon in this process. With these inputs, the cell continuously helps the students in proper planning of their career.
- Availability of ample career guidance opportunities systematically managed by career guidance cell of the T&P department has made a significant impact. The students can properly plan and build their career well in advance every year. Around 350 students secured job in industry recently and some preferred to go for higher studies.

Following activities are conducted every year by this cell :

1. Conducting a self assessment seminar for students.
2. Guidance for choosing proper career.
3. Personal counseling for opportunities of higher studies in India and abroad.
4. Seminar and Coaching for GATE
5. Informative seminar about MBA entrance exams and coaching facilities.
6. Seminar on Higher education abroad, by various expert agencies.

Figure 5.1.9 : % of students selected in campus interviews by different employers**Table 5.1.9 : List of Employers, Programmes & No. of Students Selected (2015-16)**

Placement Statistics of 2015-16 batch Till Oct. 2016										
Sr. No	COMPANY NAME	Sector	COMP	EXTC	IT	MECH	MBA	MCA	CIVIL	TOTAL SELECTED
1	TCS	IT	30	31	11	26	NA	NA	NA	98
2	Svatantra Finance	Banking	NA	NA	NA	NA	3	NA	NA	3
3	Persistent	IT	1	NA	0	NA	NA	0	NA	1
4	Polaris	IT	1	2	1	NA	NA	NA	NA	4
5	KPIT	IT	11*	20	7*	NA	NA	1	NA	39
6	L&T Infotech	IT	6	3	2	NA	NA	0	NA	11
7	Cognizant	IT	NA	NA	NA	NA	NA	3	NA	3
8	BNY Mellon	Management	NA	NA	NA	NA	1	NA	NA	1
9	Interactive Designs Pvt. Ltd.	Automobile	NA	NA	NA	1	NA	NA	NA	1
10	Diffusion Engineers Pvt Ltd	Management	NA	NA	NA	NA	1	NA	NA	1
11	E-Clerx	Management	NA	NA	NA	NA	1	NA	NA	1
12	Alembic Pharmaceuticals	Management	NA	NA	NA	NA	1	NA	NA	1
13	IndusInd Bank	Banking	NA	NA	NA	NA	7	NA	NA	7
15	Triveni Turbines	Automobile	NA	NA	NA	1	NA	NA	NA	1
16	Capgemini	IT	1	0	0	3	NA	NA	0	4
18	Syntego Global IT Solutions Pvt Ltd	IT	0	1	0	NA	NA	NA	NA	1
22	Eternus Soln Pvt Ltd	IT	1	NA	0	NA	NA	0	NA	1
23	Just Dial	Management	NA	NA	NA	NA	5	NA	NA	5
26	CMS IT Solutions Pvt Ltd.,	IT	9	5	9	NA	NA	NA	NA	23
27	RDP Telecom Services Pvt. Ltd.	Telecom	NA	3	NA	NA	NA	NA	NA	3
28	Bynry Technologies (Tungsten Info Systems Pvt. Ltd.)	IT	3	2	1	NA	NA	NA	NA	6
31	Nitor Infotech	IT	0	NA	1	NA	NA	0	NA	1
32	Financial Software and Systems	IT	2	0	1	NA	NA	NA	NA	3
34	Shriram Transport Finance Ltd.	Management	0	2	0	4	0	NA	0	6
35	TCS (Off Campus)	IT	2	0	0	7	NA	NA	NA	9
39	Scope Telecom Pvt. Ltd.	Telecom	NA	3	NA	NA	NA	NA	NA	3
40	Saransh Group	Management	NA	3	NA	NA	2	NA	NA	5
45	Pompeii Technologies	IT	16	17	6	1	NA	NA	NA	40
46	NiTi Marg	Management	NA	NA	NA	NA	0	NA	NA	0
47	HCL Corporation	IT	6	1	3	NA	NA	NA	NA	10
48	FACE	Education	3	0	1	1	0	NA	0	5
51	Volkswagen	Manufacturing	NA	NA	NA	3	NA	NA	NA	3
52	Etkin InfoTech Pvt. Ltd.	IT	4	NA	3	NA	NA	NA	NA	7
53	EPIC Research Pvt. Ltd.	Management	2	0	0	0	0	0	0	2
55	Triangle Tele Incorporations Pvt Ltd.	Telecom	1	0	0	NA	NA	NA	NA	1
61	TAL Mfg. Ltd, A TATA Enterprise	Manufacturing	NA	NA	NA	7	NA	NA	NA	7
65	Just Dial	Management	2	2	4	2	3	NA	0	13
66	BOSCH Ltd.	Manufacturing	NA	NA	NA	1	NA	NA	NA	1
67	Amdocs	IT	2*	NA	0	NA	NA	NA	NA	2
68	Sohan Global	IT						3		
69	PSPL	IT						2		
		Total	103	95	50	57	24	10	0	333

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

- A transparent system of student grievance redressal exists in the institute under the leadership of Principal.
- A number of suggestion boxes have been placed in various departments, so that the students can drop their suggestions and complaints in the suggestion boxes.
- These suggestions and complaints are handled at appropriate level for their speedy resolution.
- Similarly, for girl students, a separate women grievance committee functions under the professor rank lady faculty member and other senior members.
- Following Table represents the Grievance Redressal Committee for students.

Table 5.1.10 : Grievance Redressal Committee

Sr. No.	Name of Member	Designation
1	Dr. N. W. Kale	Chairman
2	Dr. M. A. Pund	Member
3	Dr. R. A. Kubde	Member
4	Shri A. V. Khandar	Member

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

- In this history of past 33 years, not a single issue pertaining to sexual harassment has been noticed till date. A committee headed by a senior lady faculty as its chairperson and with number of other members has been constituted for the purpose.
- The Women's Grievance Committee has the representation from Management, Faculty, Staff, Students, NGO and a Lawyer.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

- There is the formal anti-ragging committee.
- PRMIT&R campus can be safely labeled as "Ragging Free Campus" over last 4-5 years.
There is nil case worth mentioning reported so far.

Table 5.1.12 : Anti Ragging Committee

Sr. No.	Name of Member	Designation
1	Prof. P. D. Deshmukh	Coordinator
2	Prof. P. M. Ingole	Member
3	Prof. V.V. Kale	Member
4	Prof. S. G. Bahale	Member
5	Prof. M. Iqbal	Member
6	Dr. P. A. Kadu	Member
7	Prof. Ms. J. N. Ingole	Member
8	Dr. N. N. Khalsa	Member
9	Prof. Ms. M. S. Joshi	Member
10	Dr. M. A. Pund	Member
11	Prof. Ms. R. R. Tuteja	Member
12	Prof. Miss M. S. Deshmukh	Member
13	Dr. S. P. Kulkarni	Member
14	Dr. N. B. Ingle	Member
15	Prof. Ms. M. S. Bhende	Member

5.1.13 Enumerate the welfare schemes made available to students by the institution.

The following welfare schemes are made available to students by the Institute:

- Insurance of every student
- Institute level scholarship for meritorious students
- Institute level scholarship for economically weaker students
- All schemes of Central and State Government are applicable in Toto
- Medical facility with Ambulance
- Bus service for girl students
- Canteen facility
- Parking facility
- Co-operative and reprographic facility
- In-campus ATM facility
- Counseling by counselors
- Games and sports facility
- Hostel Facility

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

- Institute has the Alumni Association performing student centric activities. The association has the office bearers, framed bi-laws, informal governing body with Principal as the ex-officio member.

- Institute organizes one major Alumni Meet every year in the month of December and minor meets as and when requested by the past students.
- The motto of our Alumni Association is “COMMITTED TO SERVE ALMA MATER”.
- The association does not charge any membership fees. Whenever any fund for specific purpose is received, the association acts as coordinator to serve the purpose.
- One of our first batch US based alumni donated a fund of Rs. 1 Lakh to help for economically weaker students. The amount was distributed among the identified needy students.
- There is the consistent support from alumni members to the Institute for arranging in-plant training, career guidance, recruitment, guest lectures, technical support and much more in the form of direct or indirect support.
- The alumni surveys are conducted during the visit of alumni in the campus to seek their feedback and guidance about the quality improvement, infrastructural development and design of curriculum as per the changing industrial scenario.

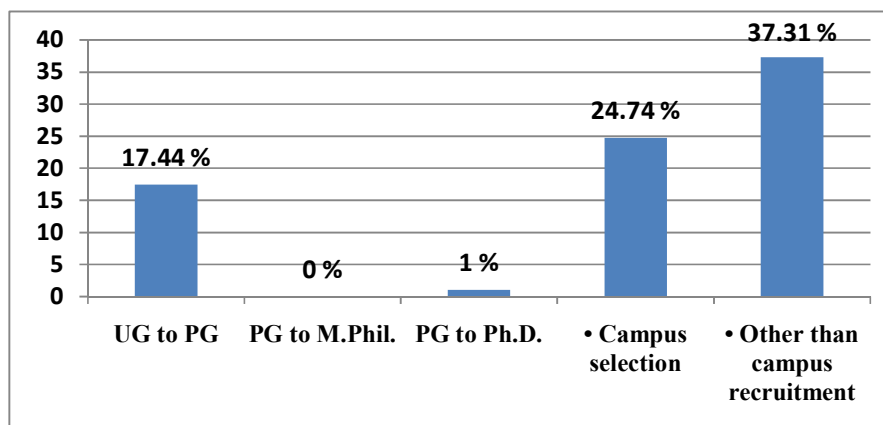
5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Table 5.2.1 : Percentage of students progressing to higher education or employment:

Student progression	%
UG to PG	17.44
PG to M.Phil.	0
PG to Ph.D.	1
Employed	
- Campus selection	25.29
- Other than campus recruitment	43.09

Figure 5.2.1 : % of students progressing to higher education or employment:



5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Figure 5.2.2 : Programme wise pass percentage (Last four years)

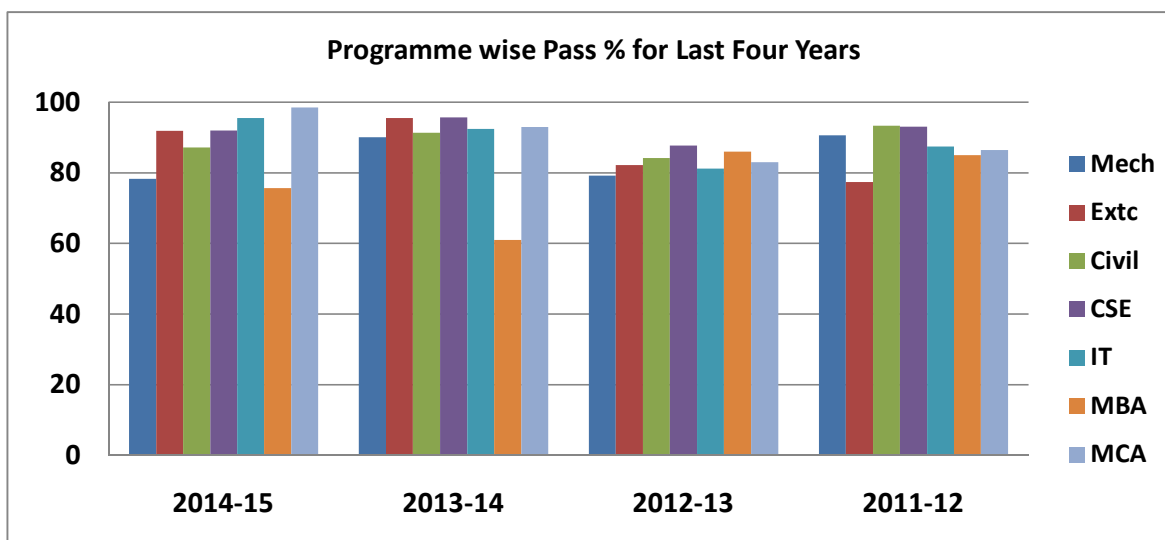


Table 5.2.2(a) : Programme wise Pass Percentage & Completion Rate for Last Four Years

Name of Department	Academic Year							
	2014-15		2013-14		2012-13		2011-12	
	Pass %	Completion Rate	Pass %	Completion Rate	Pass %	Completion Rate	Pass %	Completion Rate
Mechanical Engg	78.23	70	90	83	79.21	63	90.59	76.62
Elect & Telecom Engg	94.44	80.40	95.45	85.13	82.18	90.10	77.44	79.71
Civil Engg	87.22	80.55	91.38	75	84.14	67.07	93.33	76
Comp Science & Engg	91.98	76.81	95.69	84.01	87.75	79.62	93.06	69.01
Information Techology	95.50	87.05	92.40	91.13	81.13	79.04	87.50	85.71
Management Studies	82.50	77	79	75	90	73	81	77
MCA	95.58	86	96.61	93	94.82	90	86.44	--

Table 5.2.2(b) : Comparison of result with colleges of the affiliating university within the city/district - Summer-2015 (First Year Engg.)

S.No.	Name of Institution	Rank
1	SSGMCOE, SHEGAON	1
2	PRMIT&R, BADNERA	2
3	PRMCEAM, BADNERA	3
4	P.R. PATIL (POTE), COE, AMRAVATI	4
5	SIPNA	5
6	POTE-2	6
7	JAGDAMBA, YAVATMAL	7
8	COE, DHAMANGAON	8
9	JDIET, YAVATMAL	9
10	MAULI COLLEGE, SHEGAON	10
11	NANDURKAR COLLEGE, YAVATMAL	11
12	COE,PUSAD	12
13	PANKAJ LADDHAD COE, BULDHANA	13
14	AKOLA	14
15	RAISONI, AMRAVATI	15
16	HVPM'S COET, AMRAVATI	16
17	ANURADHA COE, CHIKHALI	17
18	SIDDHIVINAYAK COE, SHEGAON	18
19	IBSS COET, GHATKHEDA,AMRAVATI	19
20	KOLTE, MALKAPUR	20
21	PRATAP, WASHIM	21
22	SHAHU, BULDHANA	22
23	GAWAI, DARAPUR	23

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

- The institution facilitates the students to higher level of education and employment by providing group career sessions by professionals and training and placement department.
- These sessions provide a platform for the students to know about the high potential courses that need to be pursued in order to excel in higher education in India and Abroad. The information on university programmes, cost of studies etc., are also shared as far as possible.
- GATE & CAT examinations are quite popular among students and are quite aware about coaching institutes in the region.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

- Every student's progress is evaluated and the students who are at risk of failure are provided with academic counseling, supplementary materials, intensive remedial classes, etc.
- Faculty mentor and parents interact with students who are at risk of drop out to find out the solutions to enable them to continue studies

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

- The following table represents details of the sports, games, cultural and other extracurricular activities available to students and their participation in the events. The program calendar is decided and made available by the SGBAU.

Table 5.3.1 : Details of sports, games, cultural and other extracurricular activities available to students and their participation (Year 2015-16)

Sr. No.	Name of the Sport/ Game/ Cultural/ Extra-curricular Activity available to students	No. of Students Participated	Level of the Participation (College / Inter College /University / State/ National / International)
Games and Sports			
1	Archery	2	University and National level
2	Athletics	17	University Inter-Collegiate Tournament
3	Badminton	4	University level
4	Basketball	21	University level
5	Boxing	2	University level
6	Chess	6	University Inter-Collegiate Tournament
7	Cricket	16	University level
8	Cross Country Race	3	University level
9	Football	15	University level
10	Judo	1	University level
11	Kabaddi	11	University level
12	Kho Kho	6	University level
13	Power lifting	6	University and National
14	Soft ball	9	University level
15	Sports & Games	2	National
16	Sports & Games	59	University Level
17	Sports & Games	80	Inter College
18	Swimming	6	University level
19	Table-tennis	11	University level
20	Volley ball	16	University level
Cultural and Extra Curricular Activities			
1	"TechKnow Experts": A National Level Technical Event organized every year in the month of Jan/Feb	All Students	National
2	"Ashayein" : A Cultural Program organized every year followed by "TechKnow Experts" for the College Students	All Students	College
3	Best physique	2	University and National level
4	Dance	8	University level
5	Dance Competition (Solo & Group)	50	College Level
6	Fine Arts Competition	1	University level
7	Hot Wheels (Robot Competition)	-	National
8	Music	3	University level
9	Techknow 2015 Web Designing	2	State
10	Techknow Docx Paper Presentation	13	State
11	Theatre	3	University level
12	Youth Festival-Western-Solo & Group Songs	1	University
13	N.S.S.	200	College

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University/ State / Zonal / National / International, etc. for the previous four years.

- Following table represents the details of major students achievements in co-curricular, extra-curricular and cultural activities at different level for the previous four years :

Table 5.3.2 : Major student achievements in co-curricular, extracurricular and cultural activities at different levels

Year	Name of the Co-curricular, Extracurricular and Cultural Activities	Number of Students	Level of the Competition University /State/ Zonal/ National / International)	Awards/ Achievements
2015-16	National Android Developer challenges	1	National	1 st Rank
2015-16	National Level Research Paper Competition	1	National	1 st Rank
2015-16	Movie making & presentation	2 (Teams)	National	1 st Rank
2015-16	Code Chef(Technical Event)	2 (Teams)	National	1 st Rank
2015-16	Web Designing(Technical Event)	1	National	1 st Rank
2015-16	Wall Magazine(Cultural Event)	1	National	Runner
2015-16	National Level Technical Event	5	National	Runner
2015-16	Sports	3	University	Color Code Holder
2015-16	National Technical events	8	National	2 students with 3 rd position 1 student with 1 st position and 5 students with 2 nd position
2015-16	Cultural Activity	4	Inter College	
2015-16	Paper Presentation	1	National Level at SSGMCOE , Shegaon	1 st prize
2015-16	Paper Presentation	2	National Level at PCO Engg	2 nd Prize
2015-16	Paper Presentation	1	Technical Paper Presentation	3 rd Prize
2015-16	Paper Presentation	1	National Level DBNCOET, Yavatmal	2 nd prize
2015-16	Robotics	1	National Level Robo-Task	Ist Priz
2015-16	Project Competition	2	National Level	2 nd Prize
2015-16	Contraption	1	National Level	3 rd Prize
2015-16	Table Tennis	2	University	Color Coat Holder
2015-16	International Conference at PRMIT&R, Badnera (ICSTSD-2016)	2	International Level	Best Paper Award
2015-16	Elocution	1	National Level	2 nd rank
2015-16	Singing competition in Amba Festival	1	City Level	2 nd rank

2014-15	Chess	1	University	Runner
2014-15	Table Tennis	1	University Inter-Collegiate Tournament	Color Code
2014-15	Cultural activity- Dance youth Festival	2	Zonal	First award
2014-15	University toppers	4	University	Rank holders
2014-15	Sports	3	University	Color Code Holder
2014-15	National Technical events	10	National	5 awards with First position 2 awards with second position 4 awards with third position
2014-15	Cultural Activity	5	Inter College	
2014-15	Paper Presentation	1	National Level	2 nd Prize
2014-15	Robotics	1	National Level	3 rd Prize
2014-15	Project Competition	2	National Level	2 nd prize
2014-15	Contraption	1	National Level	Ist Prize
2014-15	Table Tennis	1	University	Color Coat Holder
2014-15	Sociopreneurship "Inculcating the spirit of Entrepreneurship" at Government College of Engineering, Amravati	1	National Level	2 nd Rank
2014-15	Project Presentation "Techno-vision" at Government Polytechnic, Amravati	1	National Level	2 nd Rank
2014-15	Python Workshop "Park Lab Technosia-2014" PRMIT&R Badnera	1	National Level	2 nd Rank
2014-15	B-boing Group	1	National Level	2 nd Rank
2014-15	Flower Show	1	National Level	2 nd Rank
2014-15	Inter University Basketball tounament West Zone	2	National Level	Awarded Colour
2014-15	Robotics	1	National Level	Ist Rank
2014-15	Techno camp workshop	1	National Level	Ist Rank
2014-15	Inter University Cricket tounament central Zone	1	National Level	Awarded Colour
2014-15	c-programming (windows blind)	1	National Level	2nd Rank
2014-15	National Technical Event 'Tecnizzma'-Paper Presentation, HVPM's COET, Amravati-Dated-22/09/14	1	National	3 rd Prize.
2014-15	l-"Business Quiz" Contest, G.H.Raisoni Institute of Management Studies, Amravati-Dated-25/03/2015	2	University	Qualified in Semi Final Round.
2014-15	Inter Collegiate-Event- 'Abhyudaya'-Movie Making Contest, P.R.Pote Patil Group of Educational Institutions. Amravati-Dated-18/03/2015	2	University	3rd Prize.
2014-15	Inter Collegiate-Event- 'Abhyudaya'-Ad-Mad Show Contest, P.R.Pote Patil Group of Educational Institutions. Amravati-Dated-18/03/2015	6	University	3rd Prize.
2013-14	Robotics	1	National	1 st Rank

2013-14	Table Tennis(Men)	1	University Inter-Collegiate Tournament	Runner(Team)/Color Holder
2013-14	Basketball(Men), Basketball(women),	2(Color Holder)	University Inter-Collegiate Tournament	Runner(Team)/Color Holder
2013-14	Chess		University Inter-Collegiate Tournament	Runner
2013-14	University toppers	2	university	4 th and 5 th position
2013-14	Sports	2	University	Color Code Holder
2013-14	National Technical events	3	National	2 awards with 1 st position and 1 award with 2 nd position
2013-14	Cultural Activity	4	Inter College	
2013-14	Cultural Activity	1	Inter University	Univ. Color Holder
2013-14	Paper Presentation	1	National Level	1 st Prize
2013-14	Robotics	1	National Level	2 nd Prize
2013-14	Project Competition	2	National Level	2 nd prize
2013-14	Contraption	1	National Level	Ist Prize
2013-14	Dance(Y.F)	1	University	Color Coat Holder
2013-14	Dance(Y.F)	1	National	Winner
2013-14	Cricket	1	University	Color Coat Holder
2013-14	National Level Technical Event Techknow Expert-2014	2	National Level	2 nd Rank
2013-14	National Level Technical Event Techknow Expert-2014	2	National Level	3 rd Rank
2012-13	Table Tennis (Men)		University Inter-Collegiate	Winner
2012-13	Basket Ball (Men)	1	University Inter-Collegiate	Runner(Team)/ Color Holder
2012-13	Badminton (Men)	1	University Inter-Collegiate	Runner
2012-13	National Technical events	11	National	7 awards with 1 st position, 4 awards with second position
2012-13	University toppers	10	University	Rank holders
2012-13	Sports	4	University	Color Code Holder
2012-13	Cultural Activity	5	Inter College	
2012-13	Cultural Activity	1	Inter University	Univ. Color Holder
2012-13	Table Tennis	1	University	Color Coat Holder
2012-13	Paper Presentation	1	National Level	2 nd Prize
2012-13	Robotics	1	National Level	1 st Prize
2012-13	Project Competition	1	National Level	2 nd prize
2012-13	Contraption	1	National Level	Ist Prize
2012-13	Dance(Y.F)	2	University	Color Coat Holder
2012-13	Dance(Y.F)	1	National	Winner
2012-13	Table Tennis	1	University	Color Coat Holder
2012-13	Music(Y.F)	1	University	Color Coat Holder
2012-13	Music(Y.F)	1	National	Winner
2012-13	National Level Technical Symposium Techolons-2013	2	National Level	1 st Rank
2012-13	National Level Technical Event, PAROKSHA-13	1	National Level	2 nd Rank
2012-13	Folk Dance	1	Youth Festival (Inter-University)	1 st Rank

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- All departments including Training & Placement have the mechanism to take feedbacks from graduates and employers.
- In addition to the feedbacks, the Institute seeks data through personal interaction with alumni in annual meeting as well as interaction with industry personnel during campus drives.
- The data is sought by the individual departments also through the well defined various feedback forms.
- The feedback is compiled & analyzed as required corrective actions are taken with due diligence at high level of administration.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

- Institute always encourage the students to publish material like wall magazines, competition posters and other material. The Institute involves in this activity by extending full support, financial and technical to the students.
- The list of publications brought out by the students during the last four academic sessions are given below :

Table 5.3.4 : List of published materials by students in last four years

Year	Published materials by students, like catalogues, wall magazines, college magazine, and other material	Names of Student Coordinators	Name of Department	Details of participation in Competition, if any
2015-16	Wall Magazine	1. Divya Gorde 2.Hrutuja Sakhare 3.Pratiksha Wazarkar 4.Shubham Shinde 5. Akshay Berad	Information Technology	Poster Presentation on the theme "DIGITAL INDIA"
2015-16	Wall Magazine	1.Dewarshri Varhade 2. Prasad Gayakwad 3. ShridharAmbhure 4. Hrishikesh Barne	Civil Engineering	Details about the Burj Khalifa
2015-16	Techknow-News	1.Dewarshri Varhade	Civil Engineering	MPSC for Jr. Engineer and MAHATRASCO Vacancies
2015-16	Wall Magazine	1.Dewarshri Varhade 2. Prasad Gayakwad 3. ShridharAbmhure 4. HrishikeshBarne	Civil Engineering	Details Information about Kingdom Tower
2015-16	Techknow-News	1.Prasad Gayakwad 2.Shridhar Abmhure	Civil Engineering	Airport authority & Staff Selection Commission 2015 Vacancies, GATE 2015 Notification MPSC 2015

2015-16	Wall Magazine	Divya Shah	CSE	P.R.M.I.T. & R. Badnera
2015-16	Paper Presentation	Ankusha Dongre	CSE	Tech-KnowExperts, P.R.M.I.T. & R. Badnera
2015-16	Paper Presentation	Ankusha Dongre	CSE	Pursuit , P.R.M.I.T. & R. Badnera
2015-16	Paper Presentation	Pragati Thote	CSE	Prayukti, Darapur Engineering College, Amravati
2015-16	Paper Presentation	Swapnil Gaikwad	CSE	Prajwalan, Gov. College of Engg. Amravati
2015-16	Project And Model Expo	Swapnil Gaikwad	CSE	Tech-KnowExperts, P.R.M.I.T. & R. Badnera
2015-16	Paper Presentation	Prachi Barbudhe	CSE	Tech-KnowExperts, P.R.M.I.T. & R. Badnera
2015-16	Departmental Fortnightly Wall magazine-MIRROR was started. Magazine comprise of Editorial Board of students and staff which provide a creative platform for the students to showcase their hidden talent.	Mr.Shubham Tikale & Miss.Khushboo Ganediwal	MBA	
2015-16	Wall Magazine	Mr.Vinay Dupare(MCA-I) Ms.Pranali Gahukar(MCA-I) Ms.Madhuri Phuse(MCA-II) Mr.Amit Nimkar(MCA-III) Mr.Ankush Kandalkar(MCA-III)	MCA (II)	
2015-16	Tech Know DOCx -2016 in Tech Know expert 2016	Vinay Dupare Prajakt Ingale Sarang Kalantri Pranali Gahukar Anjali Dahikar	MCA (III)	
2014-15	Wall Magazine (Info.Tech Dept)	1. Vinay Lokhande 2. Sneha Joshi 3. Payal Pakhale 4. Venuka Sankala 5.Abhishek Pachpor	Information Technology	Poster Presentation on the theme "Engineer Makes The World"
2014-15	Wall Magazine	1.Palash Dongre 2.Shubham Mokalkar 3.Ruchika Barde 4.Pooja Murtizapurkar	Civil Engineering	Detail information about the planet Mars and pictures of construction site.
2014-15	Techknow-News	1.Palash Dongre 2.Shubham Mokalkar	Civil Engineering	Maharashtra State Electricity Distribution Company Limited 2014 Vacancies
2014-15	Wall Magazine	1.Palash Dongre 2.Shubham Mokalkar 3.Ruchika Barde 4.Pooja Murtizapurkar	Civil Engineering	Artistic work done by students.
2014-15	Wall Magazine	Amit Nimkar Ankush Kandalkar Nikhil Bannore	MCA	
2014-15	Paper Presentation	Shubham Khumkar	CSE	"Techno-Jignasa" Dr. Rajesh R. Kombe Polytechnic Turkhed,Murtijapur.
2014-15	Paper Presentation	Shivani Holey	CSE	"Technizzma" Shree HVPM's COET,Amravati.
2014-15	Paper Presentation	Priyanka Sharma	CSE	H.V.P.M.C.O.E.T
2014-15	Poster Presentation	Divya Chandani	CSE	Prajwalan, Gov. College of Engg. Amravati
2014-15	Tech-Knowexperts Paper Presentation	Ojasvi Raichura	CSE	Tech-KnowExperts, P.R.M.I.T. & R. Badnera
2014-15	Tech-Knowexperts 2014	Sneha Wagh	CSE	Tech-KnowExperts,

	Paper Presentation			P.R.M.I.T. & R. Badnera
2014-15	Poster Presentation	Divya Chandani	CSE	Tech-KnowExperts, P.R.M.I.T. & R. Badnera
2014-15	Poster Making Competition	Shikha Gurka	CSE	Prajwalan, Gov. College of Engg. Amravati
2014-15	Poster Presentation	Divya Chandani	CSE	Tech-KnowExperts, P.R.M.I.T. & R. Badnera
2014-15	Best From Waste	Komal Laddha	CSE	P.R.M.I.T. & R. Badnera
2013-14	Vibration College Magazine	Marathi Section	All Departments	P.R.M.I.T. & R. Badnera
		1. Miss. Ankita Shendurkar 2. Gaurav Bhole 3. Kartik Dangre 4. Bhagyashree Mahalle- Editor		
		Hindi Section		
		1. Miss.Hema Nanwani 2. Nitesh Kumar Singh 3. Komal Bhalge 4. Gaurav Bajaj-Editor		
		English Section		
		1. Ajinkya Solanke 2. Abhaysingh Yadav 3. Shraddha Agrawal- Editor		
		Sanskrit Section		
		1. Alok Alsai 2. Kirti Patil-Editor		
		Urdu Section		
		1. Sayyed Asif-Editor 2. Tanveer Ahmed Khan		
		Report Section		
		1. Gayatri Deshmukh-Editor 2. Pooja Shinde		
		E-Magazine		
		1.Pooja Deshmukh-Editor 2. Kshitija Thakare		
Technical Section				
1. Aditya Gole-Editor 2. Masroor Khan				
2013-14	Wall Magazine	1.Palash Dongre 2.Prajakta Godhe 3.Narendra Kaple	Civil Engineering	Details regarding the various type of bridges.
2013-14	Techknow-News	1.Prajakta Godhe	Civil Engineering	Hindustan Petroleum Corporation Limited Vacancies
2013-14	Wall Magazine	1.Palash Dongre 2.Prajakta Godhe 3.Narendra Kaple	Civil Engineering	Details regarding the various type of bridges..
2013-14	Techknow-News	1.Narendra Kaple	Civil Engineering	Municipal Corporation Mumbai Vacancies
2013-14	Poster Presentation	Shubham Khumkar	CSE	"X-plore 14" Jagadambha College Of Engg. & Tech.
2013-14	Poster Presentation	Komal Laddha	CSE	Tech-KnowExperts, P.R.M.I.T. & R. Badnera
2013-14	Poster Presentation	Pranita Bansod	CSE	"Technizzma" Shree HVPM's COET,Amravati.
2013-14	Paper Presentation National Conference On Trends In Comp. Science And ICT 2014	Ojasvi Raichura	CSE	H.V.P.M.C.O.E.T
2013-14	Paper Presentation	Aditi Andhare	CSE	Technizzma, H.V.P.M.C.O.E.T.
2013-14	Paper Presentation	Megha Nirale	CSE	Electro-Wave, Rajendra Gode Poly, amt.
2013-14	Theatre	Kshipra Deshmukh	CSE	Youth fest- S.G.B.A.U.
2013-14	Paper Presentation	Preeti Wahare	CSE	"Techtalent" Amravati Polytechnic, Bhankheda.

2013-14	Poster Presentation	Sadanand Khandar	CSE	"X-plore 14" Jagadambha College Of Engg. & Tech.
2012-13	Vibration College Magazine	Marathi Section	All Departments	P.R.M.I.T. & R. Badnera
		1.Miss.Pooja Deshmukh 2. Ms. Madhuri Yeotikar 3. Abhishek Dani 4. Sagar Bele- Editor		
		Hindi Section		
		1. Miss.Pooja Dadhich 2. Miss. Shraddha Agrawal 3. Gaurav Jain-Editor		
		English Section		
		1. Kumail Khurram 2. Bhagyashri Mahalle 3. Shivani Agrawal- Editor		
		Sanskrit Section		
		1. Sneha Bhende-Editor 2. Rucha Raut		
		Urdu Section		
		1. Mohd. Zahed Raza-Editor 2. Nafees Ahmed		
		Report Section		
		1. Rajsingh Chauhan-Editor 2. Kalyani Dhote 3. Sneha Sanap		
		E-Magazine		
1. Ashish Dhandgawhale-Editor 2. Ninad Ingole				
2012-13	Wall Magazine	1.Abhishek Sinha 2.Rajsingh Chaudhari 3.Ram Wanare 4.Nilesh Mahore	Civil Engineering	Details regarding the various type of bridges..
2012-13	Techknow-News	1.Rajsingh Chaudhari	Civil Engineeing	Nagpur Improvement Trust Vacancies
2012-13	Wall Magazine	1.Abhishek Sinha 2.Rajsingh Chaudhari 3.Ram Wanare 4.Nilesh Mahore	Civil Engineering	Artistic work by students & Details regarding the various type of bridges.
2012-13	Techknow-News	1.Abhishek Sinha	Civil Engineering	GATE 2013 Notification Land Record Division Nagpur Vacancies
2012-13	Paper Presentation	Preeti Wahare	CSE	"Techtalent" Amravati Polytechnic, Bhankheda.
2012-13	Paper Presentation	Preeti Wahare	CSE	"Electro Waves",Dr. Rajendra Gode Ploytechnic,Amravati
2012-13	Paper Presentation	Ahmar Khan	CSE	Technostrem, P.D. Poly, Amravati
2012-13	Paper Presentation CAT-II	Ahmar Khan	CSE	Proksha, G.H.Raisoni Engg., Amravati
2012-13	Paper Presentation	Komal Laddha	CSE	Prajwalan, Government college of engineering Amravati

**5.3.5 Does the college have a Student Council or any similar body?
Give details on its selection, constitution, activities and funding.**

- The Student Council is formed every year as per the notification and directives received from SGB University.
- The applications are called from the interested students.
- The Student Council members are elected from the received applications, if there is more than one contestant, for one council member to be nominated for each class, thereafter called as the Class Representative. The Student Council is formed from all the nominated representatives. President of the Student Council and one University Representative are elected from the council members.
- The activities like, planning and execution of students activities, resolving students' grievances and assisting administration are performed by the council members.
- The Institute requisite fund to conduct the activities whenever required.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Following are the various academic and administrative bodies that have student representatives on them :

- Students Council
- Women's Grievance Committee
- Canteen Committee
- Departmental Academic Assessment Committee (DAAC)
- Committees of various events and activities like, blood donation camps, workshops, etc.
- Students Chapters of professional bodies like, ISTE, IEI, IETE, CSI, etc.
- Departmental Students Associations like, MESA, hobby clubs, CAD Club, GoKart, etc.
- Tech-know Experts National Level technical event organized every year by the Institute
- Cultural events
- Sport committees
- Training & Placement

Following are some of the committees having student's representations :

Table 5.3.6 (a) : Names of Student Members in Women's Grievance Committee

Sr. No.	Name of Member	Representation
1	Mr. Uddhav Thakare (2 nd Year Extc)	Male Student
2	Mr. Vishal Badukale (2 nd Year Mech)	Male Student
3	Miss Shubhangi Upalkar (2 nd Year Civil)	Female Student
4	Miss Janhavi Dahapute (2 nd Year CSE)	Female Student
5	Miss Nidhi Vighe (2 nd Year IT)	Female Student

Table 5.3.6 (b) : Names of Student Members in Canteen Committee

S. N.	Name of Member	Designation
1	Mr. Vaibhav Rajurkar, (II yr. CSE)	Student Representative
2	Miss Madhura S. Kalmegh, (III yr. Extc)	Student Representative

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

Any other relevant information regarding Student Support and Progression which the college would like to include.

- The Institute has good network and collaboration with the Alumni and former faculty of the Institution.
- The interaction with alumni members is done by arranging Alumni Meet every year in the month of December, and any more if requested by the specific passed out batch of students.

The college collaborates with the Alumni members by :

- Inviting former faculty to deliver the expert lectures or STTPs.
- Inviting for placement awareness Programmes
- Inviting for technical and cultural festival organized annually by the Institute

The college collaborates with the former faculty by :

- Inviting to department functions
- Inviting to deliver guest lectures
- Inviting to STTPs and Conference organized by the Institute/departments.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

- The Vidarbh Youth Welfare Society was established with the basic objective of taking quality education to the rural masses of Vidarbh region. Aligned with this objective, PRMIT&R has the following Vision and Mission :

- **VISION OF THE INSTITUTE :**

VISION

To become a pace-setting
Centre of Excellence believing in three
Universal values namely
Synergy, Trust and Passion,
with zeal to serve the Nation
in the Global scenario

- **MISSION OF THE INSTITUTE :**

MISSION

To dedicate ourselves
to the highest standard of technical education
& research in core & emerging engineering
disciplines and strive for the overall personality
development of students so as to nurture
not only quintessential technocrats
but also responsible citizens

Following are the Distinctive Characteristics of MISSION :

- Commitment to achieve the highest standard in imparting technical education
- Commitment to undertake the research of social values and national interests
- Commitment to develop and nurture technical qualities amongst the students
- Commitment for overall personality development of the students
- Commitment to make the students into responsible citizens.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The top management, Principal and faculty work cohesively for the progress of the institute. The top management and the principal, deans, heads of the department jointly formulate the action plan for marching towards its vision of becoming center of excellence in technical education. The role of top management, Principal and faculty in design and implementation of quality policy and plans is detailed below:

Top Management:

- Regularly interacts with the institute administration through Local Management Committee (LMC) meetings, Review meetings and Internal Quality Assurance Committee (IQAC) and sets the goals about the quality policy.
- Ensures adequate financial support for creation of academic and administrative infrastructure and state of the art facilities to ensure the prevalence of proper academic ambience.
- Identifies and appoints competent, dedicated teaching faculty capable of effective implementation of teaching-learning process so as to achieve the vision and mission of the institute.
- Ensures availability of proper working conditions/ academic ambience to faculty and staff to realize their potential.

Principal:

- Shares the views of the management and other important decisions taken by the management in the meetings conducted with Deans and heads for academic and administrative review
- Sets up rules & regulations of the institution for decentralized and participatory administration, effective governance and transparency in administration.
- Sets goals and motivates the faculty and staff for attainment of the institute's vision and mission
- Identifies and hires competent, qualified faculty and ensures technical competency by creating opportunities for faculty to grow professionally
- Identifies the traits and competencies of the faculty and encourages team building
- Ensures availability of infrastructure and other facilities to satisfy academic and administrative requirements

Faculty:

The faculty plays the key role in implementation of the quality policy of the institute and plans of the future development. The faculty is one of the most important stake holder and a key pillar of the institute.

Faculty plans and implements quality policy by:

- The ultimate responsibility of maintaining the efficacy of teaching learning process lies with the faculty.

- The faculty provided input beyond the syllabus; to the students so as to bridge the gap between industry and institute.
- Faculty uses various innovative teaching techniques to take the students from the basic level of learning, remembering to higher learning levels like applying the knowledge taking Bloom's taxonomy in to consideration.
- The faculty takes in to consideration various types of intelligence possessed by the learners as suggested by Gardener's theory of intelligence and accordingly modifies the teaching methodology and ultimately ensures the proper teaching –learning process.

6.1.3 What is the involvement of the leadership in ensuring :

- the policy statements and action plans for fulfillment of the stated mission
- formulation of action plans for all operations and incorporation of the same into the institutional strategic plan
- Interaction with stakeholders
- Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders
- Reinforcing the culture of excellence
- Champion organizational change

The leadership of the organization includes top management, principal, deans, heads of the departments and senior faculty members representing various academic bodies of the institute. The active involvement of the leadership in policy planning and implementation is the key aspect because of which the institute has occupied a niche position in the region.

- **Ensuring the policy statements and action plans for fulfillment of the stated mission**
The leadership ensures that the action plans formulated are aligned with the vision and mission of the institute. The participation of top management and Principal and employee representatives on LMC ensure that the policy statements and action plans are concurrent with the vision and mission. IQAC is a body ensuring, sustaining and enhancing quality measures in the institute.. The quality in teaching-learning process is ensured by conducting various quality checks at department and central level. The objectives for each program are defined such that they are coherent with the vision and mission of the institute. Each department formulates departmental Vision and Mission by involving departmental faculty, staff, from inputs received from students, parents, alumni and industry and ensure that they are aligned with that of the institute.
- **Ensuring formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**
Action plan is formulated by Principal, Deans and Heads under the direction of the top management. The inputs received from all the stakeholders are taken as guideline for formulating the plan. The plan so formulated is implemented through participation of faculty, staff and students. The most important among the action plans is the academic calendar. The academic calendar is prepared by the Dean Academics with inputs from the

SGB Amravati University. The calendar involves a list of academic, co-curricular, extracurricular activities and events listed at the start of the semester. Every department prepares its departmental academic calendar in accordance with the institute's calendar and ensures that the plan is implemented effectively.

- **Ensuring interaction with stakeholders**

The management of VYWS encourages participation of all stakeholders in the development process of the institute. The interaction with all the stakeholders can be summarized as follows :

- **Interaction with management:** The Institute maintains involvement of the management through consultation and interactions both formal and informal.
- **Interaction with Heads and Deans:** The interaction of Principal with Deans and Heads through periodic meetings ensures sharing of vision and policies.
- **Interaction with Students:** Principal interacts with students officially through student council meetings. Similar HODs and Dean Academics regularly interact with students. This enables obtaining first-hand information of the problems faced by students, which are addressed immediately. Students have their representation various important bodies like library committee, IQAC, grievance committee, students review committee, canteen committee etc.
- **Interaction with Faculty:** Principal interacts with faculty, formally through staff meetings at departmental level and common faculty meetings. The main purpose is to have a dialog, keep them abreast of the policies and development goals and keep them motivated. Also informal interaction happens on regular basis during various activities and events.
- **Interaction with Alumni and Parents:** Principal interacts with alumni and parents through well planned alumni meets and parent meets; twice a year. Apart from this the interaction with these two very important stakeholders occurs on regular basis as and when they visit the institute.
- **Interaction with Industry:** The inputs and views of prospective employers are also obtained by the Principal and Dean, Training & Placement through informal interaction and formal meetings in an academic year. The Principal; along with Dean T & P meets every recruitment team visiting the institute for campus recruitment and obtain the feedback of students performance. These inputs prove helpful in ensuring that the institute is moving forward towards the accomplishment of its vision.
- **Interaction with Society:** The Institute is known in the region for its interaction with society through various outreach programs. Active NSS unit of the institute organizes several activities for rural development; in nearby villages. The staff and volunteers students and the doctor devote their valuable time for the betterment of a tribal ashramshala (residential school for tribal kids) situated 15 km away from the institute. The institute has won several awards for its contribution in blood donation movement. The institute is regularly involved in conducting many activities of social importance in an

adopted village like promoting employment generation by empowering self-help groups, water conservation work, health and hygiene related activities etc.

- **Ensuring proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**

Principal along with Deans and Heads of the departments obtain inputs from relevant stakeholders to understand important aspects like; the trends in technical education, recent technological developments, government policies, employment scenario and changing needs of the industry etc. This includes interaction with various stakeholders like Government agencies, Directorate of Technical Education, affiliating University, Industry, Research institutes etc. This provides valuable inputs for formulation of policies and academic planning. The top management provides the necessary leadership, financial and administrative support to realize these policies.

- **Ensuring reinforcing the culture of excellence**

The leadership as well as the faculty of the institute are committed to excellence. Achieving the leadership position on every front through excellence is the faith that motivates the faculty and staff at PRMIT&R. Every department has adopted the following approaches for enhancing technical competencies and teaching skills :

- 1) Every faculty member has undergone a special pedagogical training imparted by the experts from Wipro Technologies. This training is aimed at achieving the excellence in teaching learning process through student centric learning.
- 2) The teacher guardian scheme implemented at the institute insures cohesive environment in the institute with a special bond between students and the teacher.
- 3) The continuous evaluation of the students ensures proper assessment of the attainment of course and program outcome.
- 4) The institute encourages the faculty to go to other institutes of higher reputes for updating their knowledge and skills.
- 5) The leadership of the institute is keen to observe and adopt the best practices of other reputed institutes.
- 6) The industry institute interaction cell endeavors to seek rigorous institute – industry interaction.
- 7) The interaction of alumni with students, heads and the faculty keeps them well-informed about the current industrial practices and accordingly motivates them to refine the existing academic practices.
- 8) The internal experts periodically carry out the academic monitoring.
- 9) The management has set up a world class library facility with rich content.
- 10) A systematic effort is made for overall personality development of the students through various students' associations and clubs services available on campus.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The procedure adopted by the institution to monitor & evaluate policies & plans of the institution for effective implementation from time to time is as follows :

- There is a well-defined governance mechanism that ensures the implementation, monitoring and evaluation of policies and plans for smooth running of the Institute.
- LMC is the governing body of the Institute prominently responsible for framing and evaluating the policies and plans effectively implemented by the Principal and his team.
- The Institution has published rules, procedures and policies.
- Through voluntarily participation in quality audit by reputed external agencies, like NBA, NAAC, annual surveys conducted by Government organizations, standard media, market-research organization, etc.
- Feedbacks from stakeholders like faculty, students, parents, employers, alumni, etc.
- Staff Council is the platform for faculty to discuss upon various issues pertaining to the suggestions and improvements for the Institute and faculty grievances.
- The various committees are formed like local managing committee, finance committee, academic council, college council, central coordination committee, purchase committee, etc. in order to inculcate transparency in the decision making process and effective governance. The functionalities of these committees are well defined and committees are headed by key persons with active participation of committee members.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The following academic leadership has been provided to the faculty by top management :

- Planning of Academics, Review of Exam Results & Performance of Students
- Framing quality policy for teaching and learning
- Monitoring lectures and practicals, Students' and parents' feedbacks, Analysis of feedback, Students' counseling
- Preparing research proposals, conduction of technical workshops, motivating faculty and students towards research work, creating awareness about IPR
- Planning, monitoring, evaluation and inputs for quality improvement
- Coordination between different departments for effective academics and administration
- Implementation of directives from authorities

6.1.6 How does the college groom leadership at various levels?

- Institute strongly believes in grooming the leadership at all levels of administrative hierarchy.
- Principal is the main leader of Institute Administration and assisted by three Deans, namely, Dean (Academics), Dean (Development), Dean (Training & Placement) and System Manager.
- Every department is lead by Head of Department.
- All the teaching departments running second shift programs have nominated the 'Incharge' to look after the working of 'second shift' classes in addition to the regular HOD.
- Class Teachers are nominated for effective control and counseling of students.
- Important portfolios are assigned to the senior faculty members, like RP CELL, FDP, ED CELL, NBA, NAAC, ERP, GAMES & SPORTS, CDEEP, LIBRARY, etc.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

- The major decisions pertaining to the functioning of the Institute is taken by the Governing Body in LMC meetings. The decisions are conveyed to the Principal and authority is delegated for implementation. Further the institute follows the decentralized governance system. The department heads are authorized to take decision in the department level with full academic autonomy within the overall guidelines from Institute.
- Following table shows the names of various committees, co-ordinators and members with the major duties performed :

Table 6.1.7 : Administrators/Decision Makers for Various Assigned Jobs

Sr.No.	Name of the committee	Coordinator	Members	Duties
1	Academic Advisory Committee	Dr. N.W. Kale Principal	Dean (Academics) & All HOD's	1. Monitoring lectures and practicals 2. Students' and parents' feedback 3. Analysis of feedback & Results 4. Students' counseling
2	Teaching & Learning	HOD	Faculty members	1. Framing quality policy for teaching and learning 2. Planning, monitoring, evaluation and inputs for quality improvement
3	Library	Dr. A. S. Alvi	All Department Library Coordinators	1. Call and verification of required books and journals 2. Preparing library budget 3. Updating and maintaining digital library setup 4. Maintaining e-library 5. Regular updates of text, reference books, journals, etc. 6. Dead – stock verification
4	Research Promotion	Dr. N.W. Ingole (Director, RP Cell)	Dean (Academics) & All HOD's	1. Preparing research proposals 2. Conduction of technical workshops

	Cell			3. Motivating faculty and students towards research work 4. Creating awareness about IPR
5	AICTE, Shikshan Shulk Report preparation, etc	Dr. S.S. Deshmukh (Dean Development)	All Department Coordinators	1. Collection of relevant data and preparation of reports. 2. Preparation for Committee Visits 3. Correspondence and interaction with outside agencies
6	Students Section	Dr. S.S. Sonare	Department Examination Coordinators	1. Collection of fees 2. Preparing roll call list 3. Registration and eligibility 4. Conduct examinations
7	Examination Coordinator	Dr. N.W. Kale Principal	Officer Incharge	1. Conduct of University examinations
8	Accreditation NBA/ NAAC	Dr. D.S. Ingole	All Department Coordinators for Accreditation	1. Preparation of reports and documentation 2. Coordination with all Departments 3. Preparation of presentation 4. Making necessary preparation and arrangements for committee visits 5. Preparation of compliance
9	Training & Placement	Dr. T. R. Deshmukh (Dean T & P)	All Department T & P Coordinators	1. Interaction with industries for placement and training of students 2. Maintaining database of students 3. Arranging and monitoring placement events 4. Arranging vocational training for students 5. Motivating students for participation for off- Campus placements
10	Networking /Internet	Dr. S.R. Gupta	All Department Computer Centre Coordinators	1. Maintaining internet services 2. Upgrading internet services 3. Online feedback
11	Discipline and Anti Ragging	Prof. P.D. Deshmukh (Director of Sports)	Prof. S.P. Kulkarni Prof. V.V. Kale Prof. P.M. Ingole	1. Monitoring code of conduct for students 2. Taking disciplinary actions
12	Grievance Redressal Committee	Dr. N.W. Kale Principal	As decided by Principal	1. Considering grievance of staff 2. Proposing the remedial measures
13	Grievance Addressal Committee for Women	Prof. Ms.M.S. Bhende	Dr. Ms.V.A. Naphade	1. Considering grievance of women staff 2. Proposing the remedial measures
14	Students Counseling	Dr. S.S. Sonare	Prof. Ms. V.A. Nafade	1. Formulate and implement College level policy to take care of personal problems of students 2. Motivate the students to excel in their personal life
15	Publication and Media (Newsletter, Brochure, Magazine)	Prof. V. R. Raut (Dean Academics) & Dr.S.S. Deshmukh (Dean Development)	Departmental coordinators	1. Framing of co-curricular and extra-curricular activities 2. Publishing magazine and Brochures 3. Circulation of publication between students, staff 4. Interacting with media 5. Preparing & Updating brochure and mandatory disclosures
16	Civil Repair and Maintenance	Mr. S.S. Deshpande	Maintenance Engineer	1. Resolving problems related to civil work
17	Electrical Repair	Mr. S.S. Deshpande	Maintenance	1. Resolving problems related to Electrical

	and Maintenance		Engineer	work
18	House keeping	Mr. S.S. Deshpande	Maintenance Engineer	1. Cleanliness of premises 2. Monitoring the work done by attendants and sweepers
19	Professional Bodies	Respective Coordinators	Faculty and students	1. Establishment of Chapters (staff and students) 2. Updating the members list 3. Organization of seminars/ workshops /STTP
20	Alumni Association	Dr. D.S.Ingole	Prof. V.R. Raut Mr. S.S. Deshpande	1. Registration and collection of data related to Alumni 2. Organizing Alumni Meet 3. Interact and involve alumni in College development
21	Extra curricular activities	Dr.S.S. Deshmukh (Dean Developemnt)	All Student Affairs Coordinators of Departments	1. Conducting Intra & Inter Departmental events 2. Conducting state & National level technical events 2. Maintaining records of related activities
22	Sports	Prof. P.D. Deshmukh (Director of Sports)	All Student Coordinators of Departments	1. Motivating students to participate in intercollegiate zonal, state level and national level competitions 2. Arranging inter departmental and intercollegiate sports activity 3. Maintaining records of activities
23	National Service Scheme	Prof. A. S. Bhopale	All Student Affairs Coordinators of Departments	1. Motivating students to participate in social activities 2. Conduct various activities by NSS 3. Conduct of NSS camps
24	Students Council	Prof. P.D. Deshmukh (Director of Sports)	University Representative & Class Representative	1. Planning and execution of Students activities 2. Resolving students' grievance 3. Assisting administration
25	Academic Calendar	Prof. V.R. Raut (Dean Academics)	--	1. Preparation of Academic Calendar for winter & summer semesters 2. Follow up of academic calendar
26	Academic Planner	Prof. V.R. Raut (Dean Academics)	--	1. Preparation of Academic Planner for winter & summer semesters 2. Follow up of academic Planner
27	CET, First Year Admission & Direct II Year Admission	Dr. S.P. Kulkarni (HOD, First Year)	FE Faculty	1. Online verification 2. Eligibility check 3. Allotment of class & batches
28	Higher Class Registration & Admission Committee	Respective HOD	Class Teachers	1. Distribution of Admission forms 2. Verification of admission forms 3. Eligibility checks 4. Allotment of class & batches
29	Cultural Event	Dr.S.S. Deshmukh (Dean Developemnt)	Faculty members	1. Conduct of annual cultural events "Ashayen" (students gathering)
30	Parents Meet	Respective HOD's	Class Teachers	1. Conduct of Parent's meet in each semester 2. Evaluation of parent's feedback
31	Internal Marks Submission	Prof. V. U. Kale	Respective Departmental Coordinator	1. Collection of internal marks 2. Data entry of internal marks
32	College Website	Dr. S. R. Gupta	Respective Departmental Coordinator	1. Design of College website 2. Maintenance of college website

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

- Yes, the Institute promotes a culture of participative management which enables faculty, staff and students to voice their opinions and suggestions including constructive criticism in day to day functioning of the Institute.
- All academic and administrative activities are decentralized and operational management decisions are taken based on discussion and deliberations in Principal's meetings with Deans, HODs, In-charge Heads, department meetings of HOD with Faculty, and various committee meetings comprising of faculty, staff & students. Minutes of such meetings are recorded and issued to all concerned.
- This culture of participative management empowers members with freedom to express their opinions, assess pros & cons of a decision being taken for improvement and even while meeting the requirements. Participative management allows collaboration & cooperation between departments and functionaries thereby improves the quality of accomplishment of task ahead.

6.2 Strategy Development and Deployment**6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?**

- The Institute has a formally stated quality policy. The quality policy of the Institute states that, "Striving for Excellence in the Quality Engineering Education".
- The quality assurance and good governance are vital ongoing elements of the Institute's work plan which has been developed to achieve the vision of the Institution. Quality Policy of PRMIT&R has been developed in accordance with the Vision and Mission of the Institute and in consultation with our stakeholders. The quality policy is driven to meet the requirements of the standard set by the parent university and needed by the industry.
- Quality policy has been deployed through internal organisational structure where each authority has its objective and responsibility. There is an Academic process which is reflected in the form of academic calendar and program calendar. A continuous monitoring system is in its place to review the performance maintain the quality.
- Quality policy is reviewed bi-annually after collecting the feedback from its entire stakeholder and reviewed by academic advisory board and finally approved by governing body.

Our commitments to comply with mandatory requirements for quality are :

- Continuous improvement in content delivery and evaluation systems.

- Students' satisfaction by assuring successful completion of the degree with skill sets to solve engineering problems.
- Provide training at all levels with placement assistance.
- Impart research and entrepreneurial skills to meet the societal needs.
- Use of modern technology and its continuous upgrading.
- Participation of all the stakeholders to realize the vision of the Institute.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Institution has perspective plan where following areas are considered as the key areas:

- Academic perspective
- Stakeholders perspective
- Research and Development

From the various perspectives, the aspects considered for inclusion in the plan are :

Academic perspective

- To strive for global recognition through academic excellence
- Establishing Centers of excellence in frontier areas of research
- Empowering the students for higher education in world renowned institutions
- Progressing towards the status of Autonomy

Stakeholders Perspective :

- Increasing the number students placed in well reputed companies with dream offers in campus placements.
- Accreditation of the Institution by national accrediting bodies like NBA, NAAC and other International Accrediting Organizations
- Bettering of Industry – Institution Interactions
- Signing MoUs with almost all large scale and small scale industries in the state and the national level.

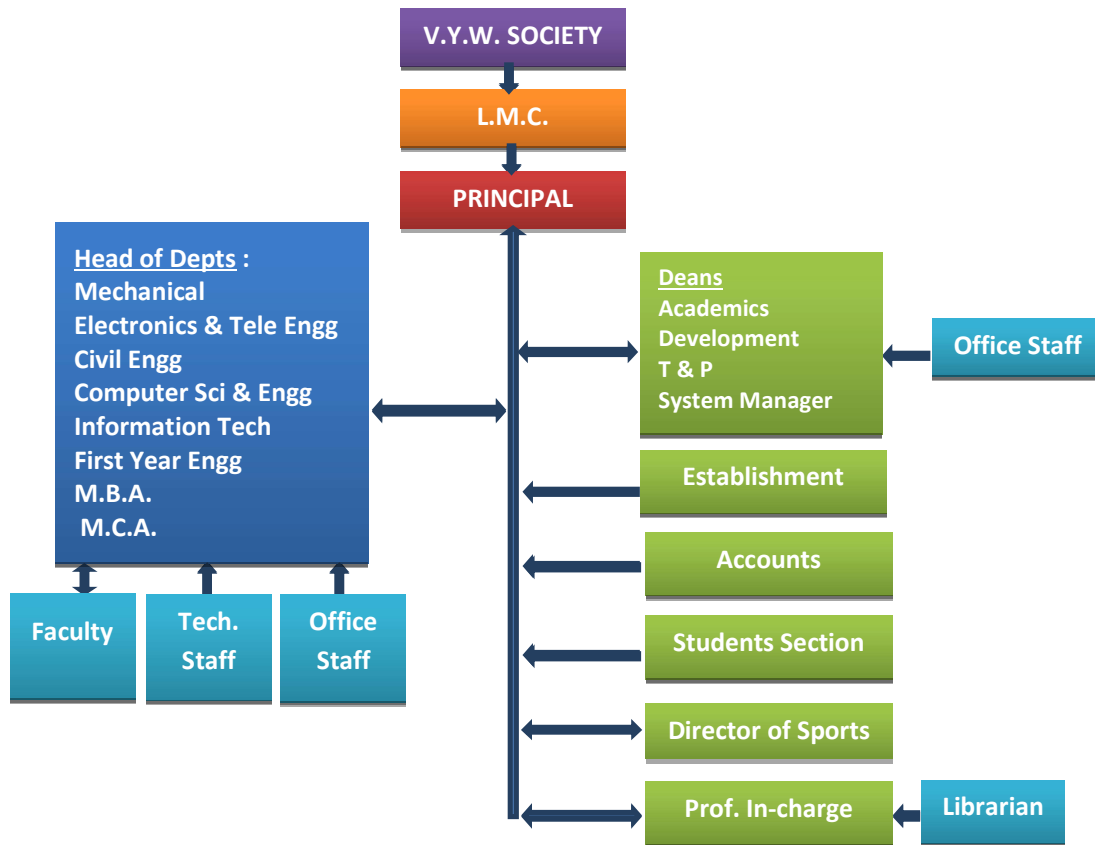
Research and Development :

- To facilitate industrial & basic research in various fields of Engineering & Technology
- To extend research to needy and deserving section of the society

6.2.3 Describe the internal organizational structure and decision making processes.

- Local Management Committee (LMC) is the apex governing body of the Institute, headed by the Chairman and responsible for policy making and budget approval.
- The Institute level Academic Advisory Committee is responsible for the academic policies.
- Deans and HODs are directed by the Principal.
- The department level decisions are made by HODs in line with guidelines provided by Parent University and AICTE.
- The Institutional decisions are made by the Principal in the consultation with management.
- Following diagram depicts the internal organizational structure and decision making processes.

Figure 6.2.3 : Internal Organizational Structure and Decision Making Process



6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- **Teaching & Learning**
- **Research & Development**
- **Community engagement**
- **Human resource management**
- **Industry interaction**

- Following are the quality improvement strategies of the Institute with reference to :

Teaching & Learning :

- The Institute has adopted student centric outcome based education system. Most of the faculty members have undergone for 'Mission 10X' teaching skill enhancement training program designed by WIPRO Technologies, especially for technical teachers. The faculty members are advised to use the Bloom's Taxonomy taught under 'Mission 10X' faculty training program in their teaching classes. This makes possible for teachers to employ interactive and participatory approach for students learning.
- Faculty members are advised to make the teaching learning process more interesting by using innovative teaching techniques and use of ICT for effective content delivery.
- Faculty members are motivated to participate in faculty development programs and short term training programs of one week or two weeks durations.
- Faculty and students have access to e-learning resources, NPTEL lectures, etc.
- Systematic efforts are taken to indentify and deliver the inputs.
- MBA staff creates and uses case studies for effective teaching.
- Inclusion of extra technical soft skills sessions in the time table by MCA.
- Adjunct faculty/guest faculties are invited time to time for lectures to keep the faculty and students abreast of recent trends.
- IIT Bombay spoken tutorial activities regularly conducted for students.

Research & Development

- The Institute has SGBAU recognized research laboratories in all departments.
- Adequate journals, reference books, internet, laboratory facilities are made available.
- Sponsorships are provided for researchers to visit universities in India for attending conferences/ workshops/ QIPs.
- Motivation and guidance to apply for funded research projects.
- Research Promotion Cell motivates faculty and students to apply for various research grants.

Community engagement

- The Institution always takes initiative for mass participation of its students in activities related with social cause, community development and various national mission programs implemented by District Collector, Commissioner, Department of Forest, and other Government offices and professional organizations. The Institute has an active NSS unit of 200 students. The activities undertaken help to imbibe the social qualities in the students. The mission statement of the Institute assures for overall personality development of students so as to nurture not only quintessential technocrats but also responsible citizens. The Institute is involved in one of the ambitious project jointly conducted by Govt. of India and Microsoft, Harisaral Digital Village Program under Digital India mission.

Human resource management

- The Institute strictly follows the norms and guidelines laid by AICTE for faculty recruitment.

Industry interaction

- The institute strongly pursues linkage with industry and professional organizations.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

- The Institute has a strong mechanism to obtain feedbacks from all its stakeholders. The feedback questionnaires are designed to extract the specific information. This process is periodically conducted and necessary steps are taken accordingly. The management and Principal interacts with each other whenever requires and the information is propagated. Principal gets the feedback from HODs, teachers, students and the alumni with regards to the teaching quality, curriculum, extracurricular activities and the infrastructural demands. The source data is collected from various departments through HODs and ERP. The other stakeholders can review the activities of the Institute through website on which information is available in the form of mandatory disclosure, self-study report and any other relevant information regarding institutional schedules, events, achievements and infrastructural facilities.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

- The management tries to develop a strong sense of belongingness in the minds of employees with the focus on a stress free, academic freedom and self-responsible work culture. This long back adopted philosophy of PRMITR is working fine in improving the effectiveness and efficiency of the institutional process.

- Management has adopted the Faculty Empowerment Policy, where all the possible cares have been taken for employees, like their professional developments, promotions, increments, awards, welfare and health care.
- The direct outcome of this adopted policy is that, the Institute is recognized as, the “**Institute with highest retention rate**” of the employees.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

- The LMC meeting was held on 28/09/2015 and following are the item wise minutes /resolutions made by the Management Council in the last year (2015-16).

1. Confirmaiton of minutes of last meeting held on 13/05/2014

2. Review of Results of Summer Exam :

- The house in general expressed satisfaction over the overall UG results. The house resolved to augment the teaching efforts in UG (2nd Shift) and PG. All HODs should be well aware of the faculty performance and their teaching plans and schedule. Based on online/in person faculty feedback, corrective actions should be taken in the interest of students. It was further resolved to seek faculty feedback only from students with satisfactory class attendance.

3. Placement Statistics for 2014-15

- The house expressed satisfaction over the placement of 200 students. The house further resolved to enhance the T & P efforts by –
- Formation of a central committee comprising President – VYWS (as committee Chairman), Principal – PRMIT&R (as Secretary), VYWS Executive members, HODs and Dean T & P. This committee shall fram the policies and objectives of T & P and shall meet once every month to review the progress of T & P activities in line with policies and objectives framed by central committee. The minutes of each meeting shall be prepared and forwarded to central committee.
- Taking steps like visits to industries, personal interaction with HRs, inviting top officials from industry/ tapping Institute alumni resources to enhance the report of the Institute with recruiting companies.
- In general, instead of customizing the student for a particular company job profile, they should be given necessary skills/training so as to broaden their horizon towards acceptance by a larger Industry segment.

4. Initiating futuristic NBA and NAAC Accreditation Process

- It was resolved to go ahead with necessary preparation of futuristic NBA visit in view of applicable Tier – II format within the time frame as proposed by various departments. The house further resolved to seek accreditation from NAAC and necessary process should be initiated. If necessary, advice and guidance from professional expert might be taken.

5. Seeking Foreign Collaboration in the development of Institute

- The house principally agreed for the collaboration and resolved to initiate necessary process. Necessary advice/consultancy from external expert agency may be undertaken.

6. Organizing National and International Conferences

- The house unanimously accepted the proposal of organizing two national conferences and an international conference in the interest of faculty, students and researchers.

7. Review of activities of (i) Research Promotion Cell, (ii) Intellectual Property Right Cell and (iii) Entrepreneurship Development Cell

The house appreciated the Institute's efforts in this direction and directed to augment the efforts. The house further resolved to :

- Open separate bank account for RP Cell, IPR Cell and ED Cell. Separate budgetary provisions to be made in the budget for all the aforesaid cells.
- Identify various central/ state funding agencies to sponsor research.
- Register the patents in the name of Institute and patentee jointly.
- Organize seminars/ programs so as to motivate second year students towards research.
- ED activities to be augmented and the expenditure on workshops, training programs etc. be equally shared by participants and Institute.
- Development of small/ medium scale production center in MIDC area may be explored. The expertise of faculty may be utilized for the betterment of society at large so that students would get a firsthand experience of industrial environment.

8. Review of First Year Admissions in AY 2015-16

- The house, in general, appreciated the overall admission scenario within the Institute and directed to augment effort in admission process.

9. Academic Calendar for AY 2015-16 (part – I)

- The house unanimously approved the proposed academic calendar.

10. To discuss and approve Faculty list for AY 2015-16 and allocation of pay scale

- The house unanimously approved the faculty list and allocation of pay scale.

11. Construction of Main Gate and Compound Wall on west side of campus

- The house principally agreed to the proposed construction and directed to send the proposal to VYW Society.

12. To discuss and approve Audit report of FY 2014-15

- The house unanimously approved the presented audit report of FY 2014-15.
- The house resolved to write off the advance shown against the Param Sangam Project and against the name of Prof. P. B. Bokey (deceased) from the audit report of FY 2015-16 and onwards.

13. To discuss & approve report submitted to Shikshan Shulk Samiti for FY 2015-16

- The house unanimously approved the Shikshan Shulk Samiti report.

14. To discuss and approve proposed Budget of FY 2015-16

- The house unanimously approved the budget proposed for FY 2015-16.
- The proposed extensions of Civil Department, Mechanical Department and augmenting the women centric sanitation/washroom facilities within the campus were principally agreed. The house resolved to initiate the necessary process at VYW Society level for new construction and identifying extra space available, if any, at Polytechnic building.

15. To discuss and approve the receipt and payment during 1/4/2015 to 31/8/2015

- The house unanimously approved the receipt and payment during 1/4/2015 to 31/8/2015.

16. Any other subject with permission of the Chair

- A significant stock of scrap material has been accumulated at maintenance department, and is occupying space, gathering dust/rust and is looking ugly. The house unanimously approved a proposal to auction such scrap by calling tender.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

- Yes, SGBAU has a provision for according grant of Academic Autonomy to affiliating institution under the scheme of UGC.
- The Institute has not yet applied for the autonomous status.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

- The grievances from stakeholders, i.e. students, employees, alumni, employers and parents are promptly attended and resolved effectively to the best of satisfaction of aggrieved party. Periodically the disposed-off cases are analyzed about the primary realm behind them. And if in case any recurring complaint is found, the issue is sorted out through policy decision by the administration.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute ? Provide details on the issues and decisions of the courts on these?

- No court case has been filed or pending against the Institute.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

- Yes, the Institute has a mechanism for analyzing student feedback on 'Institutional performance'.

- Feedbacks from all the students are taken online for every subject and respective teacher once in a semester. The feedback about facilities and other services are conveyed by the students directly to the class teachers, HOD or through complaint box prominently placed at every department.
- Feedbacks are analyzed by Dean (Academics) and communicated to the respective HOD and faculty members after concerned with Principal. The counseling of faculty members having average performance is done by HOD. Faculty members with 'poor' or 'needs improvement' remarks are instructed to improve their performance in the identified area.
- On the basis of above feedbacks, the Principal interacts with faculty and HODs to improve the Institutional performance. The Principal conveys the outcomes in the meeting to management. The Management finally directs Principal for taking appropriate decisions & actions to improve the overall performance and brand building of the Institute.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

- The Institute is committed for professional development of faculty and non-teaching staff and always supports them for the following actions :
 - Pursue Higher Studies and encourage for doctoral research
 - Attend FDP in respective field of interests
 - Attend and present research papers in National/ International conferences
 - Publish research papers in refereed journals
 - Organize seminar, guest lecture, FDP for faculty members
 - Bring consultancy projects to the departments and work on them.
 - Acquire funding through sponsored projects/ MODROB/ FDP from different funding agencies.
 - Liaise with industries & negotiate for MOUs with the institution. In turn bring better interaction opportunities for student and faculty.
 - Encourage to acquire higher professional qualification by Non-Teaching Staff.
 - Organize training for non-teaching staff to upgrade their skills and multitasking abilities.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- Following strategies are adopted by the institute for empowerment of faculty through the roles they perform as well as training/ re-training :

- Various important portfolios in the department are assigned to the senior faculty members by HOD. The younger faculty members assist them to accomplish the activities and acquire good knowledge and experience.
- The young faculty is asked to teach a subject of his choice. Further he is guided to make lesson plan, schedule of lectures, course file, preparing animations, PPT slides, etc., as teaching tools before the commencement of class.
- During the semester his teaching is monitored, corrected if required by the senior faculty.
- In nutshell, he/she is guided and supported to become good teacher and classroom performer for at least 3-4 subjects of UG and PG programs.
- Upon completion of 4-5 yrs of teaching experience, he is asked to get involve with research work along with teaching assignments. Faculty is encouraged to pursue Ph.D.
- On the completion of 6-10 years of teaching and research experience, faculty members are gradually intended in to administrative activities also.
- On the whole faculty are systematically groomed, empowered to play a bigger role over the span of their career.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- The institute has professionally designed “**Annual Self-Assessment for the Performance Based Appraisal System (PBAS)**” where the faculty is appraised annually focusing primarily on four broad areas of an individual’s contribution for :
 - (i) Teaching-learning and evaluation related activities,
 - (ii) Co-curricular, extension, professional development related activities,
 - (iii) Research, publications and academic contributions, and
 - (iv) Other credential, significant contributions with respect to the profession and organization.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

- The management has a vital role in performance appraisal of the faculty. Annual increments and promotions in the grades are implemented by management on the basis of an individual performance indicated in the appraisal report.
- The management takes major financial decisions like approval and implementation of salary structure, introduction of perks, reward schemes, etc. based on the outcomes of the review of the performance in appraisal report.
- Such review is used as an important tool for maintenance of high level of satisfaction among employees.

- Decisions taken by the management are communicated to concerned faculty and staff through concerned HODs, circulars and official orders.

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

- Believing that the satisfied employee is an asset for the institute and can make the institute a productive place, the management has put several welfare measures and schemes for the faculty, non-teaching staff and students. The welfare provisions made are listed below :
 - Provident Fund
 - Medical Insurance for employees
 - Financial support for up gradation of knowledge through QIP/ conferences/ workshops.
 - Maternity leaves for female faculty and staff.
- These schemes are available for all employees and can avail as and when required.

Table 6.3.5 : % of staff availed the benefits of Welfare schemes in last four years

Name of Welfare Scheme	YEAR			
	2012-13	2013-14	2014-15	2015-16
	% of Staff who Availed Benefits	% of Staff who Availed Benefits	% of Staff who Availed Benefits	% of Staff who Availed Benefits
Provident Fund	100	100	100	100
Medical Insurance for employees	100	100	100	100
Financial support for up-gradation of knowledge through QIP/ conferences/ workshops	7 %	8 %	10 %	10 %
Maternity leaves for female faculty and staff	1.3 %	2.94 %	Nil	9.33 %

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

For attracting & retaining the eminent faculty, Institute takes the following measures:

- Salaries are paid as per the AICTE and State Government norms
- Special benefits/increments for deserving candidates
- Financial incentive for acquiring doctoral degree
- Promotions and increments based on the performance
- Freedom to pursue the higher education
- Financial incentives for research publications
- Faculty with high academic credentials and recognition are well placed in the system

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

- Planning and Budgetary Control are effectively monitored in the institution. Institute prepares the budget in accordance with the budget required by the departments. Budget is presented before the LMC and approved. LMC acts as the recommendatory body for development proposals, approving body for audited statement & budget for recurring and non-recurring expenditure. There is also a purchase committee for approval to purchases and development of infrastructure. Following are the members of Purchase Committee :

Table 6.4.1 : Purchase Committee

S. N.	Name of Member	Designation
1	Dr. N.R. Dhande (President, VYWS)	Chairman
2	Prof. V. P. Gohad (Vice-President, VYWS)	Member
3	Shri P. S. Deshmukh (Treasurer, VYWS)	Member
4	Shri Y.V. Chaudhari (Secretary, VYWS)	Member
5	Dr. N.W. Kale (Principal)	Member
6	HOD (Respective Dept)	Member

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Internal Financial Audit :

- Internal financial audit is the continuous process and is quarterly done by Accounts department of the Institute. The Accounting software, 'Tally' is used to manage the entries of day to day transactions.

External Financial Audit :

- Financial audits are conducted by the nominated chartered accountant at the end of every financial year.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

- The major source of institutional funding is tuition fees.
- The deficit is managed by the management through bank loans.
- The audited income and expenditure statements and the reserve fund/corpus of the Institute for previous four years are provided.

(Please refer [ANNEXURE – IV](#) for audited income and expenditure statements of the previous four years and the reserve fund/corpus available with Institutions)

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

- Additional grants have been received from the AICTE to promote research, innovation and entrepreneurship quality among students and staff. Following are the details of grants received.

Table 6.4.4 : Details of external grants received to the Institute

Scheme	Name of the Coordinator	Amount Sanctioned		Sanctioned Order Details
		NR	R	
MODROBS (2010-11)	Dr. G.R. Bamnote	Rs. 5,00,000	NIL	Ref. No.: 8024/RrDF/MOD- 32212070-1,1
MODROBS (2010-11)	Dr. P.D. Sawalakhe	Rs. 5,50,000	NIL	Ref. No.: 8024/RrDF/MOD- 338/2010-1, 1
FDP	Prof. S. V. Dhopte	Rs. 1,25,000	Rs. 70,000	Ref. No.: 7/AICTE/RIFD/FDP/Pvt. (3)-49/2012-13
RPS	Dr. G. R. Bamnote	Rs. 9,23,000	Rs. 1,20,000	Ref. No.: 20/AICTE/RIFD/RPS/ (POLICY-III) 65/ 2012-13
EDC	Dr. A. U. Awate	Rs. 3,00,000	Rs. 4,00,000	F.No.: 05/AICTE/RIFD/EDC/POLICY/05/2012-13 Dt.: 5/2/2013
MODROBS (2014-15)	Dr. D.S. Ingole	Rs. 18,00,000	NIL	Ref. No. : 9-278/RIFD/MODROB/Policy-1/2014-15(Pvt.) Dt. 13/3/2015

1.5 Internal Quality Assurance System (IQAS)

6.5.1. Internal Quality Assurance Cell (IQAC)

- a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

- As per the directives and guidelines from NAAC regarding the formation of an Internal Quality Assurance Cell, the IQAC has been constituted on 16th June 2016 for a period of Two years.

The primary aim of IQAC is -

- To develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.
- To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

The composition of the IQAC is as follows :

1. Dr. N. W. Kale, Principal, PRMIT&R	: Chairman
2. Prof. H. M. Deshmukh, Executive Member, V.Y.W.S.	: Member
3. Prof. V. R. Raut, Dean (Academics)	: Member
4. Dr. S. S. Deshmukh, Dean (Development)	: Member
5. Dr. T. R. Deshmukh, Dean (T & P)	: Member
6. Dr. A. U. Awate, Professor, Mech Engg Dept	: Member
7. Prof. C. N. Deshmukh, Asso. Prof., Extc Dept	: Member
8. Prof. S. G. Adhau, Asso. Prof., Civil Engg Dept	: Member
9. Dr. M. A. Pund, Asso. Prof., Comp.Sci.& Engg Dept	: Member
10. Prof. S. V. Dhopte, Asso. Prof., IT Dept	: Member
11. Dr. P. R. Deshmukh, Professor, First Year Engg Dept	: Member
12. Prof. S. G. Pethe, Dept of Mgt Studies	: Member
13. Prof. Mrs. R. R. Sherekar, HOD., MCA Dept	: Member
14. Prof. M. V. Gudadhe, Secretary, IEI (Local Center), Amt	: Member
15. Shri M. M. Darokar, Director, Tirupati Industries, Kurha	: Member
16. Shri H. S. Jadhao, Director, Jadhao Steel Alloys, Amt	: Member
17. Dr. D. S. Ingole, Professor, Mech Engg Dept	: Coordinator

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

- One meeting has been conducted with the members of IQAC since its formation. IQAC has one member from the executive body of management of the Institute.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

IQAC has the external members from local industries and professional bodies.

d. How do students and alumni contribute to the effective functioning of the IQAC?

Not Applicable, being first cycle application for accreditation.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

Not Applicable, being first cycle application for accreditation.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

- Institute has constituted the Academic Advisory Committee to monitor and ensure the effective implementation of Semester System in the Programmes offered by SGBAU. The composition, functions and implementation of the Academic Advisory Committee is as follows:

Table 6.5.2 : Academic Advisory Committee

S. N.	Name of Member	Designation
1	Dr. N.W. Kale	Principal & Chairman
2	Dr. P. A. Kadu	HOD Civil Engg.
3	Prof. S. V. Pattalwar	HOD Computer Sc. & Engg.
4	Dr. S.P. Kulkarni	HOD First Year
5	Dr. S.S. Deshmukh	HOD Mechanical
6	Dr. S.M. Deshmukh	HOD EXTC
7	Dr. Ms.V.M. Deshmukh	HOD IT
8	Prof. Ms. R.R.Sherekar	HOD MCA Dept.
9	Prof. A. V. Deshmukh	HOD Mgt. Studies
10	Prof. V.R. Raut	Dean (Acad.) & Secretary

The Institute level Academic Advisory Committee (IAAC) is responsible for rendering the following functions:

- IAAC primarily monitors the working particularly in conduction of regular theory and practical classes, lesson plans prepared by the faculties, course completion, delivery mechanism, curriculum transaction and conduct of internal assessments.
- IAAC ensures that the departments are completing all the activities within the scheduled period mentioned in the academic calendar. The IAAC also ensures that the departments prepare all the required academic and administrative documents before commencement of the classes and are properly notified on time and brought to the notice of all the concerns.
- IAAC ensures that the departments are conducting the internal assessment, evaluating the scripts and are notifying the marks in the departmental notice boards.
- IAAC overall monitors the various activities mentioned in the University Academic Calendar and Institute Academic Calendar and ensures about their proper execution by the departments and concerned authorities and persons.
- IAAC collects periodical reports from each department regarding the activities and performance of the departments.
- IAAC ensures that whether the workloads of the departments are distributed proportionately amongst the teachers.
- IAAC submits a Comprehensive Report in confidential regarding performance of the departments to the Principal of the Institute.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

- Orientation programme on NAAC and NBA has been conducted to train the staff members. Staff members are aware about the importance of quality procedure and its adoption by the institution.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

- Institute level Academic Advisory Committee conducts the departmental inspection periodically to assess syllabus coverage, faculty file, attendance register, work load distribution and student's feedback and assessment reports. There is no provision for external review of the academic process.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

- Internal Quality Assurance System is aligned with requirements of external quality assurance agencies in all aspects of institute operations with thrust on quality of teaching-learning process.
- The teaching Quality is monitored by the concerned HOD's, Dean and Principal. Based on their recommendations, the corrective and preventive actions are implemented.
- Feedback from the stakeholders is collected and is used to ensure effective quality assurance.
- IQAC mechanism is formulated using the guidelines of various quality assurance agencies like NAAC, NAAC and other professional bodies like TCS, WIPRO, SGBAU for quality education.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- Dean (Academics) takes a regular review of teaching learning process by getting the feedback from every department in the form of 'Monthly Academic Progress Report'.
- A review of academic progress is also taken by Principal from all HODs twice in every semester.
- Periodically meetings are conducted with Class teachers, Class representatives and Faculty members to review the teaching and learning process.

- Subject allocation is done as per the faculty specializations, willingness and experience. Faculty is requested to prepare lesson plans, course file including personal notes and question bank before the commencement of the semester.
- Attendance Register is maintained by each faculty which contains the students' attendance and performance in tests and syllabus completion status. This is reviewed monthly by the class teachers.
- Teaching-learning process reviewed in each semester for improved outcomes in internal & external exams, student' feedback, placements etc.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

Any other relevant information regarding Governance, Leadership and Management which the college would like to include.

- Institute communicates its quality assurance policies, mechanisms and outcomes to the internal stakeholders, i.e. Students and Faculty through meetings, circulars and notices.
- The external stakeholders, i.e. Parents, Alumni and Industries are informed through mail, Institute website, brochures, etc., and also by means of interaction with parents, alumni and industries in the respective meetings.

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

- The Institute has received a prestigious “Environment Award” from SGBAU in 2014.
- The Institute is very much environment conscious and maintains the whole campus eco-friendly and energy conservative.
- Environment activists oriented student and staff have active participation in developing campus facilities like treating the waste water, planting the trees and maintaining environment.
- The Institute does not conduct a Green Audit of its campus and facilities.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

Following initiatives are taken by the Institute to make the campus eco-friendly :

Energy conservation

- Awareness programme is conducted periodically for elaborating the importance of conservation of natural resources and how to use them effectively.
- For the conservation of electrical energy, the staff and students are intimated to turn off fans and lights in the campus whenever not needed. A single switch is provided to switch off classroom power supply for fans and lights outside the rooms.
- The Institute has replaced all the CRT monitors to LCD monitors thereby conserving electrical energy to the great extent and provides protection from harmful radiation to human eyes. The Institute has over 1000 LCD monitors.
- The turbo ventilators are used in the workshop to dissipate the heat naturally and conserve electricity.
- As a policy, the Institute has decided to replace all conventional tube lights by energy efficient LED lamps and LED tube lights. Process of conversion is in progress in phase wise.
- The Institute central library uses solar based LED lighting system.

Use of renewable energy

- The proposal for setting up of solar panels for generation of electricity and sourcing of excess power to MSEB is under process. The installation of 100 KW PV solar power plant (roof top) is under consideration.

Rain Water harvesting

- To sustain the ground water availability the Institution has adopted rain water harvesting system.
- Systematic rain water harvesting to collect the rain water from terraces is implemented.
- The rain water on ground is collected and the arrangement is made for its percolation for recharging the ground water aquifers.
- Waste water of the Institute is collected and treated. The same is reused in the garden.

Dam Construction

- No dam has been constructed by the Institute.

Effort for Carbon Neutrality

Institute makes every effort to keep the carbon footprint as small as possible. Some of the majors are as follows :

- Encouragement to car pooling for employees
- Conservation of electricity
- Use of renewable energy
- Reuse of paper
- Implementation of ERP to reduce the paper consumption
- Use of energy efficient monitors for computers
- Massive tree plantation
- Reuse of waste water

Plantation

- Tree plantations are organized regularly to create clean and green campus. NSS coordinator organizes tree plantation in-campus and off-campus time to time.

Hazardous Waste Management

- There is no generation of any hazardous waste inside the campus.
- Degradable waste is composted and converted into manure.

E-Waste Management

- E-waste like computers, printers and laboratory waste are properly disposed for recycling through auctioning to local vendors.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Following are some of the innovations introduced during the last four years which have created a positive impact on the functioning of the Institute :

1. **Institute has adopted the Outcome Based Education System:** This has helped in laying down the procedures for assessment of program outcome and attainment of graduate attributes.
2. **Implementation of the Online Feedback System for students:** Through this students can register their opinion about the performance of individual teacher for various performance parameters. The head of department, based on this evaluation provides constructive suggestions for the improvement of the performance of teachers. This has resulted in to better and student centric teaching learning process.
3. **Implementation of the Online fee payment system for students:** The institute has adopted online fee payment facility of SBI. The link is provided on the website of the institute. This has resulted in to considerable saving of precious time of the students by avoiding long queues in the bank.
4. **Implementation of the Teacher Guardian scheme:** The institute has very effectively implementation of the teacher- guardian scheme. This has proved to an effective mechanism for students counseling.
5. **Installation of intranet based ERP system:** Availability of an appropriate platform for gathering and processing of the information is a must for smooth administration of any institute. PRMITR has developed a customized ERP system capable of integrating all information related to students, faculty, finance academics etc.
6. **Open Access book issue system in library for students:** In contrast to traditional system of book issue, free access is provided to students in library for picking the books as per their requirement. This has resulted to increased satisfaction level of the students.
7. **Implemented the Continuous Evaluation and Academic Monitoring System:** The institute adopts continuous evaluation system for students. The performance of the students is evaluated on regular basis at the end of every academic activity.
8. **Availability of online research journals of international repute, NPTL audio/video tutorials :** In order to keep the students abreast of the resent technology trends, the institute has subscribed various reputed international and national online journals. Apart from several journals available in print form, around 500 online journals are available in institute library.
9. **Induction programs for the new faculties :** The new faculty joining the institute undergoes a rigorous induction program that include inputs like teaching pedagogy, innovative teaching techniques etc.
10. **Tie-up with Wipro Technologies for imparting teaching pedagogical inputs to faculties :** The Institute has adopted student centric learning approach. These inputs are imparted to the faculty members through 'Mission 10X' program conducted by Wipro technologies ltd. PRMITR is one among only three institutes identified by Wipro; in

Maharashtra.

11. **Tie-up with Wipro Technology Learning center for students for training on advance embedded system platforms:** Institute has signed MoU with Wipro for providing advance technology inputs to the students. A lab known as 'Unified Technology Learning Platform' has been developed with support from Wipro.
12. **Tie-up with IIT Bombay for E-Yantra Lab:** In order to provide exposure to the students in the field of advanced robotics, the institute has developed a robotics lab in collaboration with IIT Bombay. The faculty and students interact with experts from IIT and other institutes at national level through this activity.
13. **Tie-up with IIT Bombay and IIT Kharagpur for NMIECT center for distance learning :** The institute in support with IIT Bombay and IIT Kharagpur has established a remote center for C-DEEP, a distance learning program under NMICTE for teachers training.
14. **Tie-up with IIT Bombay for spoken tutorials and free online certification courses for students :** The institute is a recognized center for, 'Spoken Tutorial Program' of IIT Bombay. The program is aimed at offering online training and certification program on various advance technologies.
15. **Tie-up with Reliance Power for internship and training to faculty and staff on power plant Engg :** Recognizing the importance of hands on training; the institute has signed MoU with M/s. Reliance Power for internship to students and training to the faculty.
16. **MOU with University of PUTRA Malaysia for knowledge exchange:** Recognizing the importance of interaction of the faculty and students with their peers at national and international level; the institute has recently signed MoU with the University of Putra Malaysia. A novel, 'satellite conference' was organized at a first activity under this MoU.
17. **Establishment of the Research Promotion cell:** In order to promote the innovation and research among the faculty and students, the institute has established the research promotion cell in the institute. This cell supports the research activities by offering technical as well as financial support to faculty and students.
18. **Establishment of the Patent cell:** In order to encourage the patenting activity in institute, a patent cell has been established. The institute offers free of cost patenting services to all its students and faculty.
19. **Promotion of use of renewable energy :** As a policy, the institute promotes the use of renewable energy in the institute. The library of the institute partially uses solar energy with energy efficient LED lights since past 10 years.
20. **Save Paper, Save Environment Campaign :** As a commitment towards conservation of the environment and reducing the carbon footprint, The institute has adopted the strategy of minimizing the use of paper. The ERP system of the institute minimizes the use of paper. In addition, the departments are advised to reuse the paper wherever possible.
21. **On-campus availability of medical facility, full time Doctor, Ambulance, etc. ;** In order to offer total care of our students, the institute has established a well-equipped health clinic with regular doctor and an ambulance within the campus.

7.3 Best Practices

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

Following are the best practices which have contributed to the achievement of the Industrial Objectives and contributed to the Quality improvement of the core activities of the Institute :

Best Practice 1:

- **Title of the Practice**

Implementation of training and placement policy for improving the performance of the students in placement drives.

- **Goal**

The goals of implementing the training and placement policy are:

- To design a framework of imparting training to the students, aimed at improving the communication skills, domain knowledge and soft skills.
- To design it in modular form, which is to be implemented starting from first year itself.
- To expose students to recent technological trends.
- To make them industry-ready and employable

- **The Context**

The Institute is affiliated to SGBAU, Amravati and hence follows its curriculum and academic structure designed by the University. Obviously the pace of updating the syllabus in response to the needs of industry cannot be maintained. Also as most of the students are from Amravati and adjoining districts and from rural background, they were found lacking in communication skills and soft skills. All this contributed to lower selection rate in recruitment drives of various companies.

Based on the feedback received from industry, following areas were identified where improvement was needed :

- Less awareness of current technological needs of the industry among the students.
- Students lack in aptitude skills.
- Students are weak in communication skills.
- Students also lack in basic technological inputs.
- Lack of awareness among students about importance of aptitude tests.

To improve upon the above the new policy was implemented three years ago.

• **The Practice**

The policy consisted of the methodology and schedule of imparting various inputs to the students In order to improve the performance of the students in recruitment drives. The inputs were subdivided in to systematically designed training modules catering to communication skills, domain knowledge and soft skills. The inputs were provided, starting from first year itself. In order to make the students aware of the importance of various skills i.e. aptitude, communication, soft skills and technical skills, counselling sessions were conducted. A representative schedule of inputs to be provided to students at various levels, duration and mode of implementation is shown below :

Table 7.3.1 : Schedule of activities

Semester	Program	Duration
I & II	Initial induction program, communication skills development activities (To be conducted through T & P Department)	3 days per sem
III	Confidence building program, communication skills development activities (To be conducted through T & P Department)	4 days
IV	<ul style="list-style-type: none"> • Intro to aptitude (To be conducted through T & P Department) • Technical Training-I: C,C++, DS (for IT,CS,EXTC), Auto CAD (for Mech) (To be conducted through Departmental placement cell) • communication skills development activities 	12 hrs 30 hrs During working hours
V	Soft Skills Development Program	25 hrs
VI	Campus Recruitment Training-I (To be conducted through T & P Department)	30 hrs
VI	Technical Training-II: Java, DotNet, CAD, cloud, big data Embedded Systems, any identified program based of industrial need etc. (To be conducted through Departmental placement cell)	60 to 80 hrs
VII	Campus Recruitment Training-II (To be conducted through T & P Department)	50 hrs

• Evidence of Success

Feedback from the industry shows the improvement in student quality as far as communication skills and soft skills. The companies like KPIT and TCS noticed the improvement in performance in these two areas.

The success rate in aptitude test / screening test was found improved in recruitment drive of various companies. Table shows the comparison of student's performance in aptitude test during past three years for a few companies.

Table 7.3.2 : Success rate in aptitude tests

Type of the companies	Year 2012- 13			Year 2013- 14			Year 2014 - 15		
	No of students appeared	No of students passed	Success rate (%)	No of students appeared	No of students passed	Success rate (%)	No of students appeared	No of students passed	Success rate (%)
IT Companies	372	146	39.2	933	440	47.15	700	395	56.4
Core Companies	214	88	41.1	127	64	50.3	298	146	50.00

Continuous improvement was observed during past three years; in total number of on-campus placement was observed. Table shows placement scenario of past three years.

Table 7.3.3 : Placement Scenario: past three years

Description	Year 2012-13	Year 2013-14	Year 2014-15	Year 2015-16
Total Number of on- campus selections	163	187	276	339
Placement percentage with reference to eligible students	50.15	53.43	78.86	84.75

• Problems Encountered and Resources Required

One of the major problems faced was the availability of time. Giving these extra inputs as per the planned schedule within a short span of three months duration in a semester was a challenging task. The placement department and placement committee at department level worked hard for extra duration to achieve the goals.

Identifying proper agency capable of meeting the target was a challenge. The T & P department took pains to select proper agencies of national repute for various modules. Some of the modules and practice sessions were conducted with the help of in-house resources.

Another challenge was to evoke the response of the students particularly at first and second year level. The cancelling sessions conducted by T & P department helped in achieving the response.

Need of additional financial resources to impart these training was another hurdle. However looking at the importance of the program, the management of VYWS readily sanctioned the extra budget.

Best Practice 2:

• Title of the Practice

Efforts to provide academic leadership at University level for academic excellence.

• Goal

PRMIT&R boast of its academic leadership in the Vidarbha region. One of the forte of PRMIT&R is its well qualified and experienced senior faculty. The goal of this practice is to encourage the senior faculty to render their services for various statutory bodies of the SGB Amravati University like board of studies, academic council and the senate. The motive behind this is to propel these bodies for increasing the pace of bringing academic reforms in the faculty of engineering and technology. The presence our faculty is found to be of great help in bringing dynamism in the key aspects of technical education like; updating the curriculum, exam reforms, industry institute interaction, and research.

• The Context

While working in the conventional university setup as one of the affiliated college, the pace of bringing academic reforms is restricted. Various drawbacks of being an affiliated institute those we faced are:

1. A large numbers of colleges are affiliated to the University. There exists no mechanism to treat traditional and professional institutes separately. Under this situation it becomes very difficult to manage the quality standards expected by industry.
2. Very limited opportunity for frequent update of the curriculum to meet the changing needs of the industry.
3. The professional programs need rigorous interaction with the stakeholders like industry, employer, alumni and other institutes of excellence. There is little freedom however for this in affiliating setup.

Though acquiring the autonomy is the ultimate solution over these problems, for many institutes like ours, getting autonomy was a remote dream till recently. A policy decision of encouraging the senior faculty to render their services for various statutory bodies of the SGB Amravati University was thus taken.

• The Practice

The Institute made systematic efforts to depute/ nominate as many senior faculty members as possible to various statutory bodies of SGB Amravati University, Amravati. This included board of studies, faculty of engineering & Technology, academic council, board of examination, university senate and many other statutory bodies and committees. Following table shows the representation of the institute in SGB Amravati University for the year 2013-2017.

Table 7.3.4 : List of Faculty Members Representing SGBA University

Sr. No.	Name of Faculty Member	Name of Dept	Name of Board of Studies of SGBAU
1	Dr. G. R. Bamnote	Computer Science & Engg.	Dean, Faculty of Engg. & Technology
2	Dr. D. S. Ingole	Mech Engg	Member, BoS, Mechanical Engineering
3	Dr. S. V. Bansod	Mech Engg	Member, BoS, Mechanical Engineering
4	Dr. A. U. Awate	Mech Engg	Member, BoS, Mechanical Engineering
5	Dr. T. R. Deshmukh	Mech Engg	Chairman, BoS, Production Engineering
6	Dr. C. R. Patil	Mech Engg	Member, BoS, Production Engineering
7	Dr. D. T. Ingole	Electronics & Tele. Engg	Member, BoS, Electronics Engineering
8	Dr. N. W. Ingole	Civil Engg	Member, BoS, Civil Engineering
9	Dr. P. S. Pajgade	Civil Engg	Member, BoS, Civil Engineering
10	Dr. A. S. Alvi	Information Technology	Member, BoS, Information Technology
11	Dr. P. V. Ingole	Electronics & Tele Engg.	Member, BoS, Electronics Engineering
12	Dr. P.D. Sawalakhe	First Year Engg Dept.	Member, BoS, Applied Science

It is indeed very rare sight that a single institute has such a widespread representation on university bodies. It is noteworthy that till date the institute has given 3 deans of the engineering and technology faculty to SGB Amravati University. In addition the institute has also contributed to university administration by way of providing a management council member, BCUD director, Registrar and a Pro Vice Chancellor.

These senior faculty members in the house, were able to sensitize the fellow members, make them aware of changing scenario and jointly were instrumental in bringing many reforms in the university system.

• Evidence of Success

The joint efforts of this team of qualified and experienced teachers greatly helped in changing the mindset of the members on various statutory bodies and in infusing dynamism in the decision making process. This automatically imparted the academic leadership to the institute. The following landmark events/ decisions themselves are the indicators of the success of this practice :

1. The Institute was first in the region to start the branches like Information technology and computer science and engineering by sensing the future demand from the industry. The team of the institute prepared the curriculum and academic scheme for these programs.
2. The Institute was first un-aided institute in the state to start PG programs in engineering and technology faculty.
3. With support from the university, the institute was then first in Maharashtra to acquire India's first supercomputer, 'PARAM'. This was a great boost for academic development of these new branches in University region.
4. The team made a great effort and succeeded in conversion of the annual pattern of examination to semester pattern in the faculty of engineering and technology.
5. In its endeavor to bring academic reforms, the team was successful in implementation of credit grade based evaluation system for engineering and technology faculty. Gradually by seeing the benefits, other faculties of the university adopted the same.
6. It is because of the efforts of the present dean of the faculty, Dr. G.R. Bamnote that the university has become the first university in the state to implement end to end automated exam management system,
7. The team was successful time to time in bringing many academically important decisions like; provision for open/ free electives, provision for class/ grade improvement, implementations of new norms for doctoral research etc.
8. The Institute always took a leading role in curriculum revision by way of organizing special workshops for syllabus restructuring for various disciplines. This provided opportunity to every teacher from various technical institutes to contribute in the process of curriculum development.

• Problems Encountered and Resources Required

Changing the mindset of the members on university bodies representing conventional program was the biggest challenge. It was difficult to convince the people that needs of engineering and technology faculty are much different than conventional program and we need to give separate treatment. Persistent efforts, team work, counseling and advocacy could bring about the desired change.

The lack of dynamism in decision making at university level was another difficulty faced. Various ways and means were adopted for making the system fast. For example the syllabus restructuring workshops carried out at institute level; time to time worked as pressure group for restructuring of curriculum. The outcome of such workshop is kept in BoS meetings and accordingly modification / updating is done on regular basis. A major restructuring is done once in a span of around 8 years.

Providing large scale representation on university bodies without hampering the academic activities of the institute was itself a challenge. However a strong support from the Management made it possible.

3. Evaluative Report of the Departments

Evaluative Report of Mechanical Engineering Department

1. Name of the department: **Mechanical Engineering**
2. Year of Establishment: **1986**
3. Names of Programmes / Courses offered:

UG	B.E. (Mechanical Engineering)	Full Time
PG	M.E. (Production Technology and Management)	Part Time
	M.E. (CAD CAM)	Full Time
	M.E. (Thermal Engineering)	Full Time
Doctoral Studies	Recognized laboratories for research work in Production Engineering by SGB Amravati University, Amravati.	N.A
	Recognized laboratories for research work in Mechanical Engineering by SGB Amravati University, Amravati.	N.A.

4. Names of Interdisciplinary courses and the departments/units involved:

Sr. No.	Interdisciplinary Course	Semester	Department
1	Mathematics III	III	Dept. of First Year Engg.
2	BEDC	III	Dept. of Extc. & Tele. Engg.
3	Environmental Engineering	IV	Dept. of Extc. & Tele. Engg.
4	Fiber Optics & Communication	V	Dept. of Extc. & Tele. Engg.
5	Basics of Building Construction	V	Dept. of Civil Engg.
6	Introduction to Earthquake Resistance	V	Dept. of Civil Engg.
7	Data Structure & Algorithm	V	Dept. of Computer Sci. & Engg.
8	Data Communication and Networking	V	Dept. of Computer Sci. & Engg.
9	Introduction to Computer Network	V	Dept. of Information Technology
10	IT Ethics & Practices	V	Dept. of Information Technology
11	Data Base Management System	VI	Dept. of Computer Sci. & Engg.
12	Disaster Management	VI	Dept. of Civil Engg.
13	E-Commerce	VI	Dept. of Information Technology
14	Environment Management	VI	Dept. of Civil Engg.
15	Introduction to Wireless Technology	VI	Dept. of Extc. & Tele. Engg.
16	Knowledge Management	VI	Dept. of Computer Sci. & Engg.

5. Annual/ semester/choice based credit system (programme wise)

UG	B.E. (Mechanical Engineering)	Full Time	Semester
PG	M.E. (Production Technology and Management)	Part Time	Semester
	M.E. (CAD CAM)	Full Time	Semester
	M.E. (Thermal Engineering)	Full Time	Semester
Doctoral Studies	Recognized laboratories for research work in Production Engineering by SGB Amravati University, Amravati.	N.A	N.A
	Recognized laboratories for research work in Mechanical Engineering by SGB Amravati University, Amravati.	N.A.	N.A.

6. Participation of the department in the courses offered by other departments:

S. No.	Other Department	Participation in the courses	% Participation
1	Computer Science Engineering	Principles of Management	50
2	Information Technology Engineering	Principles of Management	50
3	First Year Engineering	Engineering Drawing	100
4	Electronics and Telecommunication Engineering	Industrial Management and Quality Control	100

7. Courses in collaboration with other universities, industries, foreign institutions: **NIL**8. Details of courses/programmes discontinued (if any) with reasons: **NIL**

9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	10	10
Associate Professors	13	13
Asst. Professors	20	20

10. Faculty profile with name, qualification, designation, specialization, experience, no. of Ph.D. students guided.

S. No.	Name of the faculty	Highest Qualification	Designation	Specialization	Experience (Years)	No. of Ph.D. Students guided for the last 4 years
1	Dr. S.S. Deshmukh	PhD	HOD, Associate Professor	Production Engg.	25	2
2	Dr. N. W. Kale	PhD	Professor	Thermal Power Engg.	31	2
3	K.M. Watt	ME	Professor	Thermal Power Engg.	31	

4	Dr. S.V. Bansod	PhD	Professor	Production Engg.	32	
5	S.G. Bahaley	ME	Professor	Thermal Power Engg.	28	
6	Dr. S.B. Thakare	PhD	Professor	Thermal Power Engg.	26	2
7	A.K. Pitale	ME	Professor	Thermal Power Engg.	27	
8	Dr. A.U. Awate	PhD	Professor	Production Engg.	28	2
9	Dr. D.S. Ingole	PhD	Professor	Production Engg.	27	4
10	Dr. C.R. Patil	PhD	Professor	Production Engg.	24	7
11	Dr. T.R. Deshmukh	PhD	Professor	Production Engg.	19	5
12	H.M. Deshmukh	M.Tech	Associate Professor	Production Engg.	28	
13	S.P. Patil	M.E.	Associate Professor	Production Engg.	28	
14	Dr. A.D. Shirbhate	PhD	Associate Professor	Production Engg.	27	
15	S.V. Dahake	M.Tech	Associate Professor	Production Engg.	26	
16	A.V. Dhote	ME	Associate Professor	Thermal Power Engg.	26	
17	Dr. R.A. Kubde	PhD	Associate Professor	Production Engg.	25	
18	M.V. Gudadhe	M.Tech	Associate Professor	Production Engg.	25	
19	P.M. Ingole	ME	Associate Professor	Production Engg.	25	
20	M.P. Nawathe	ME	Associate Professor	Production Engg.	24	
21	V.V. Kale	ME	Associate Professor	Production Engg.	24	
22	Dr. S.J. Deshmukh	PhD	Associate Professor	Thermal Power Engg.	19	2
23	Dr. N.A. Wankhade	PhD	Associate Professor	Production Engg.	19	
24	Dr. N.S. Pohokar	PhD	Assistant Professor	CAD/CAM	9	
25	Ms. Rucha Kolhekar	ME	Assistant Professor	CAD/CAM	6	
26	A.V.Kadu	ME	Assistant Professor	Thermal Power Engg.	6	
27	H.D. Patil	ME	Assistant Professor	CAD/CAM	6	
28	S.S. Bhangre	ME	Assistant Professor	CAD/CAM	6	
29	S.M.Paropate	ME	Assistant Professor	CAD/CAM	6	
30	T.K. Gawande	ME	Assistant Professor	CAD/CAM	4	
31	A.S. Deshmukh	ME	Assistant Professor	CAD/CAM	4	
32	S.Gedam	ME	Assistant Professor	CAD/CAM	4	

33	Ms.K.N. Thakare	M.Tech	Assistant Professor	Thermal Power Engg.	2	
34	N.G. Jogi	M.Tech	Assistant Professor	Thermal Power Engg.	2	
35	Ms.P.R.Chaudhari	M.Tech	Assistant Professor	Thermal Power Engg.	2	
36	P.R. Mamankar	ME	Assistant Professor	Thermal Power Engg.	1	
37	K.R. Kaware	ME	Assistant Professor	Thermal Power Engg.	1	
38	Ms. S.S. Chavhan	ME	Assistant Professor	Thermal Power Engg.	1	
39	P.B. Jawanjaj	ME	Assistant Professor	Thermal Power Engg.	1	
40	N.A. Dukare	ME	Assistant Professor	Thermal Power Engg.	1	
41	A.S. Sakhare	ME	Assistant Professor	Thermal Power Engg.	1	
42	J.P. More	ME	Assistant Professor	Thermal Power Engg.	1	
43	S.S. Kongre	ME	Assistant Professor	Production Engg.	2	

FACULTY SUMMARY TABLE

Professor	Associate Professor	Assistant Professor	Total	Ph.D.
10	13	20	43	13

11. List of senior visiting faculty: **NIL**

12. Percentage of lectures delivered and practical classes handled by temporary faculty:

Programme	Regular Faculty		Temporary Faculty		TOTAL		% load of temp. faculty	
	Theory	Practical	Theory	Practical	Theory	Practical	Theory	Practical
UG	107	204	61	158	168	362	36	43
PG	36	8	0	0	36	8	0	0

**All figures are of odd semester*

13. Student -Teacher Ratio:

Programme	No. of Students in programme	No. of Faculty for the program	Student - Teacher Ratio
UG	540	36	15
PG	84	7	12

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Academic support staff (technical)		Administrative staff	
Sanctioned	Filled	Sanctioned	Filled
11	11	1	1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Faculty Qualification	Ph.D.	Pursuing Ph.D.	P.G.	Total
	13	14	16	43

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Name of faculty	Funding agency	Project	Grant received
Dr. D.S. Ingole	AICTE	MODROBS (Rapid Prototyping)	Rs. 18 Lacs

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: **NIL**

18. Research Centre /facility recognized by the University:

- Recognized laboratories for Doctoral Studies in Production Engineering by SGB Amravati University, Amravati.
- Recognized laboratories for Doctoral Studies in Mechanical Engineering by SGB Amravati University, Amravati.

19. Publications:

- Publication per faculty: $235/43 = 5.46$
- Number of papers published in peer reviewed journals (national /International) by faculty and students: **175**
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): **NIL**
- Monographs: **NIL**
- Chapter in Books
- Books Edited
- Books with ISBN/ISSN numbers with details of publishers: **01**

Details of Publisher	Title of Book	ISBN No.	Authors	Date of Publish
DnyanPath Publication Amravati www.dnyanpath.com	A Text Book of Engineering Drawing	ISBN: 978-81- 931863-3-6	A.U. Awate P.R. Wadnerkar	14 Feb. 2016

- Citation Index
- SNIP
- SJR
- Impact factor
- h-index

20. Areas of consultancy and income generated:

Areas of honorary consultancy:

- Design & development of workplace
- Design of product
- Design of equipment

21. Faculty as members in a) National committees, b) International Committees, c) Editorial Board

Faculty	Interaction with outside world
Dr. D.S. Ingole	-Reviewer for Int. Journal U.K -Member-Board of Studies, SGBAU Amravati -Divisional convener IE (I), 2009-2011 -Session chairman for Int. conf.
N. W. Kale	-Executive Council Member ISTE-2009-2011
S.G. Bahale	-Vice President -IE (I) Kolkata -Chairman IE (I) Maharashtra State -Member-Board of Studies, SGBAU Amravati(till 2011)
Dr. S.V. Bansod	-Ex.Executive Council Member ISTE -Member Board of Studies, RSTMU Nagpur - Member-Board of Studies, SGBAU Amravati
K.M. Watt	-Member Selection Committee SGBAU Amravati
Dr. S.B. Thakare	-Divisional convener IE (I) M.S. -Reviewer for Int. Journal Nigeria -Reviewer for Int. Journal World Academy for Science & Technology France
Dr. A.U. Awate	-Member-Board of Studies, SGBAU Amravati -Ex. Divisional convener IE (I) M.S. -Member Tech. Advisory Committee Jadhao Gears, Amravati
S.V. Dahake	-Divisional convener IE (I) M.S.

	- Joint Secretary IE (I) M.S. Center - Member Governing Body Government ITI,Chikhaldara
R.A. Kubde	-Ex. Senate Member SGB Amravati University
Dr. C.R. Patil	-Senate Member SGB Amravati University -Member-Board of Studies, SGBAU Amravati
Dr. T.R. Deshmukh	-Chairman -Board of Studies, SGBAU Amravati
Dr. S.J. Deshmukh	-Divisional Convener Amravati Local Centre IE (I) -Reviewer for Int. Journal Management and Enterprise Development (IJMED)
V.V. Kale	- Member of Advisory Committee, Dept. Of Students Welfare & NSS SGB Amravati University. -Regional Co-coordinator of NSS Dept .for Badnera SGB Amravati University - Member Governing Body Government ITI, Bhatkuli

22. Student projects:

- Percentage of students who have done in-house projects including inter departmental/programme: 70%
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : 30%

23. Awards / Recognitions received by faculty and students

Faculty	Awards / Recognitions
Dr. N. W. Kale	Green Teacher National Award Sanctuary Asia-ABN AMROC
	Best Lecture Award – 2006 IWWA, Mumbai
Dr. D. S. Ingole	Best Engineering College Teacher Award Maharashtra State – 2007 ISTE, New Delhi
	Best Lecture Award - 2005 IWWA, Mumbai
Dr. T.R. Deshmukh	Best Engineering College Teacher Award ISTE 2015

Name of Student	Event	Awards / Recognitions
Kaustubh Kawatkar	National Level Paper presentation “Prajwalan 2012” Govt. College of Engineering, Amravati	nd 2 Prize
Kaustubh Kawatkar	State Level Paper presentation competition “TECHNOEXPERTS-2012”. PRMIT&R, Badnera	st 1 Prize
Bhaskar Ranjan Ravi Shankar Singh Suman Kumar	National Level Paper, Poster and Robotics Competition “TECHNO-THLON-2011”, College of Engg & Tech., AKOLA	st 1 Prize
Nishant S. Bochare	Paper presentation competition, P.R. Pote College of Engg., Amt.	st 1 Prize
Praful N. Mallawat Yogesh Malani	Paper presentation competition, P.R. Pote College of Engg., Amt.	nd 2 Prize
Nayan Shirbhate	Rubik’s Cube Competition, Prajwalan-2015, GCOE Amravati	st 1 Prize
Ms. Rujula Dalu	Paper presentation, Prajwalan-2015, GCOE, Amravati.	nd 2 Prize

Nikhil Pusadkar	Engineer's Day, Institution of Engineers India, Amravati, Sept.2015	Best Students Award
Team of 12 students	Workshop on Robotics with image processing and MATLAB by IIT, Guwahati	2nd prize
Team of 6 students	Workshop on Aerotrix, By IIST, Trivandrum	2nd prize
Team of 3 Students Chetan Wankhade Vinay Hanmulwar Vicky Walde	Model Competition Based on Fluid Power By Talent Incubation & I.E. (I), September 2015	Winner
Danish Memon	University Examination W-2014	University Topper
Prashant Thakare	University Examination S- 2014	College Topper
Saurabh Thakare	Inter University Football -2014-15	University Color Coat
Sumer Tapar	Intra University Badminton 2015-16	2 nd Prize
Vinit Dhande	Inter University Chess -2015-16	University Color Coat
Ms. Priti Ambhore	State Level Competition Thangta -2015	Silver Medal
Khan Arbaz Zafar	University Examination 2014-15	Merit No: 03UG)
Ku. Bharati Tayade	University Examination 2014-15	Merit No: 01(PG)
Dnyaneshwar Sapkal	University Examination 2013-14	Merit No: 01 (PG)
Pankaj Pangul	University Examination 2012-13	Merit No: 01 (UG)
Ku. Triveni Pete	University Examination 2011-12	Merit No: 02 (UG)
Rucha Kolhekar	University Examination 2011-12	Merit No: 01 (PG)

24. List of eminent academicians and scientists / visitors to the department:

S.No.	Eminent Personalities who have visited department
1	Mr. Sanjay Jadhao M.D. Jadhao Gears Pvt. Ltd. Amravati
2	Mr. Rajesh Sinha Vice President John Deer
3	Mr. Deep Verma Sr. Scientist MGIRI Wardha
4	Mr. Nelman Joseph Jeorge M.D. Hammer knock Industries Thane
5	Mr. Sanjay Supe Director Gukss Industries Amravati
6	Dr. B.N. Jajoo Ex-Principal Govt. Engineering College
7	Smt. Ujwala Haware Haware Builders New Mumbai
8	Mr. Vijay Jadhao Chartered Accountant Ex. President MIDC Association Amravati
9	Mr. Jayant Deshpande Ex. Chairman BUDC S.G.B. Amravati University
10	Mr. Kale Director MGIRI Wardha
11	Mr. Vikram Bhurshundi Sr. Manager TAL Nagpur

25. Seminars/ Conferences/Workshops organized & the source of funding:

a) National

Year	Seminars/ Conferences/Workshops organized	Source of funding
2014-15	MEPCON 6-7 April 2015	Self Finance

b) International

Year	Seminars/ Conferences/Workshops organized	Source of funding
2015-16	Science & technology for sustainable development Kuala Lumpur Malaysia 24-26 May 2016	Self Finance

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Semester	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
Mathematics III	III	227	227	184	43	62.99
BEDC	III	221	221	178	43	85.06
Environmental Engineering	IV	235	235	203	32	98.29
Fiber Optics & Communication	V	90	90	83	07	82.22
Basics of Building Construction	V	84	84	78	06	92.84
Introduction to Earthquake Resistance	V	58	58	52	06	89.47
Data Structure & Algorithm	V	06	06	04	02	100
Data Communication and Networking	V	20	20	16	04	70
Introduction to Computer Network	V	08	08	08	00	100
IT Ethics & Practices	V	07	07	04	03	71.45
Data Base Management System	VI	26	26	25	01	80.76
Disaster Management	VI	45	45	45	00	100
E-Commerce	VI	17	17	13	04	88.23
Environment Management	VI	70	70	64	06	97.78
Introduction to Wireless Technology	VI	44	44	35	09	87.5
Knowledge Management	VI	14	14	12	02	86

*M = Male *F = Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
UG	99	1	0
PG	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sr. No.	Name of Exam	No. of Students Appeared	No. of Students Qualified
1	GRE (2014-15)	100	100
2	GATE (2015-16)	85	07

29. Student progression:

Student progression	Against % enrolled
UG to PG	4%
PG to M.Phil.	0%
PG to Ph.D.	1%
Ph.D. to Post-Doctoral	0%
Employed	
• Campus selection	25%
• Other than campus recruitment	60%
Entrepreneurship/Self-employment	10%

30. Details of Infrastructural facilities

a) Library:

- Centralized library facility with 18000 titles and 60000 volumes
- Access to WEB-Based Library (e- journals, NPTEL video lectures, DELNET e-books/ e-journals) from department.

b) Internet facilities for Staff & Students:

- 110 no. of PCs with Internet Nodes
- Wi-Fi connectivity Internet access in laboratories, classrooms, seminar hall etc. (6 Wi -Fi access points of bandwidth of 54 Mbps)

c) Class rooms with ICT facility:

- 6 Classrooms with total area 514 sq. meter and equipped with LCD Projector& OHP in each classroom

d) Laboratories:

State of the art laboratories to perform laboratory work and research work:

- Refrigeration and Air-Conditioning
- Computer
- Theory of Machine
- Machine Design
- Measurement Systems
- Heat Transfer
- Non Conventional Energy
- Thermal Engineering
- Fluid Power

- Metrology & Metallurgy
- Workshop
Machine shop, Carpentry and Fitting, Smithy, Molding and Casting Shop Welding shop

31. Number of students receiving financial assistance from college, university, government or other agencies:

Source of Financial Assistance	Student Category	Financial assistance	No. of Students
College	University Toper	100% fee scholarship	1
	Branch Toper	50% fee scholarship	1
	Class Toper	25% fee scholarship	1
State Government	OBC	50% fee scholarship	102
	SC/ST/VJ/NT	90% fee scholarship	167

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Guest Lectures

Date	Topic	Speaker
10/09/2015	“Motivational Speech Regarding Students Training & Placement Campus Drive”	Ms.Triveni Petale (Design & Testing Software Engineer- TCS-Pune)
11/09//2015	“TCS Challenges”.	Mr.Yogesh Jadiya, Ms.Payal Mathane, Mr.Kunal Bhagat (TCS Selectee-2014-15 Batch of Mech.Branch-PRMITR)
07/01/2015	“3D Printing Revolution in Design& Manufacturing”	Mr.Ameya Khambete, (Marketing Manager CAD/CAM Group Pune)
06/02/2015	“Career Opportunities in Supply Chain Management”	Dr.Saroja Asthona,(Founder of Mulshi Group of Institution-Pune, Management of International School of Business.
20/02/2015	“ Adv.Softwares in Mechanical Subject”	Mr.Sarang Maiskar Head,Hypotenuse Corp. Pvt.Ltd.-Pune
24/03/2015	“CAD/CAM Technology”	Mr. Harish Lata (Ace Career Academy-Amravati)

Technical Training

Date	Topic	Agency	No. of Participants
2-23 March 2013	CATIA	Indo-German Tool Room Aurangabad	82
9-18 June 2014	CNC Machining	Indo-German Tool Room Aurangabad	50
13-19 Oct.2014	AutoCAD	Indo-German Tool Room Aurangabad	33
2-29 March 2015	Integrated Course in CAE	Indo-German Tool Room Aurangabad	20
23-29 Dec. 2014	IC Engine	Experts Hub AISI Pune	6
21-22 March 2015	‘The Auto Quotient’	J.D.I.E.T Yavatmal	20

33. Teaching methods adopted to improve student learning:

In order to improve student learning following **teaching methods** are used:

- Theory lectures
- Tutorials
- Lab work
- Continuous evaluation of students
- Feedback from students

In order to improve student learning following **teaching aids** are used:

- OHP
- LCD
- Digital Resources (DVDs)
- Internet Connections in Class Rooms & Tutorial Rooms
- Models/Demo
- Charts

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Mechanical engineering department has been actively participating in various Institutional Social Responsibility (ISR) and Extension activities as mentioned below:

2012-13	2013-14	2014-15	2015-16
Tree Plantation (150 plants)	150 th Birth Anniversary of Swami Vivekananda, speech by Shi Mukul Kantikar, Nagpur	Traffic Rule Awareness Program	Traffic Rule Awareness Program
Female Feticide awareness program	Flag Hosting Program on the occasion of Independence day ,Tree Plantation Program by the hands of Alumina of PRMITR&R(317 Plants)	Tree Plantation and cleaning program.	Tree plantation and cleaning program as a part of "Swachh Bharat Abhiyaan"
Workshop for NSS Volunteers	Used Drawing sheets distribution (2500 sheets)	Used Drawing sheets distribution	Drawing sheet collection and donation program for blind students
Used Drawing sheets distribution	International Literacy Day	Republic Day Pathsanchalan Selection Camp	Participation of volunteers in "Savbhavna Daud"
Yoga And Tree Plantation	First Aid Day	Tree Plantation program.	Notebook and study Material distribution Program
Literacy Awareness Program	Cloth Distribution and Shram Dan Program	Blood Donation Camp	AIDS Awareness Program
Mega Blood Donation Camp (465 boltless)	NSS Foundation Day, Personality Development and cleaning Program.	INDRADHNUSHYA -2014 Rally	Mega Blood Donation Camp
Workshop on Disasters Management	Blood Donation Camp(400 Blotless)	Donation of 70 Blankets to Tribal Primary Students	Participation of volunteers in "Yuva netrutva vikas shibir"
Disaster Management Program By Collector office	Passport Derive (650 participant)	Blood Test Camp	Guest lecture of Dr.Kishor Phule on occasion of "Swani Vivekanad Janyanti"
Lecture On AICS Awareness by Mr. Ajay Sakhare Distract Program Officer and	One Day Workshop For Sarpanch, Police Patil ,President ,Mahila Bachat gat, NSS Officer ,Under	"Swachh Bharat Abhiyaan" Ganjar Gavati Nirmulan Cleaning and road	Road safety awareness program by RTO, Amravati as a part of "Rasta Suraksha Abhiyaan"

blood Donation Camp (370 Boltless)	Chairmanship of Vice Chancellor	safety	
Techno Expert-13 Discipline committee	Energy Conservation Day	ASpeech by Swami Shrikantanand President of Ramkrishan monestary pune on the 150 th Birth Anniversary of Swami Vivekananda,	Participation of volunteers in "Sanwad Workshop"
Aashayen Discipline committee	National Youth Day 150 th Birth Anniversary of Swami Vivekananda,speech and Disaster Management Program.	N.S.S Volunteer committee for maintain discipline for Techno Expert and Aashayen-2015	Participation of volunteers in "Rasta Suraksha Abhiyaan Rally"
Debate Competition	Rode Safety Program	Mega Blood Donation Camp	Tress plantation,Ganjar Gavat Nirmulan and Cleaning Program
Women Empowe-rment in Disaster Management beyond Class Room	Flag Hosting,Gajargavat Nirmulan and Cleaning Program	A Speech On"HIV-AIDS Awareness " by Mr. Ajay Sakhare Distrlct Officer .	NSS Volunteers Committee for maintaining Discipline for "TECHNOEXPERTS & AASHAYEN-2016"
World Water Day rally	Techno Expert-13 and Aashayen Discipline committee		Participation of volunteers in "Gadgebaba jayanti Rally"
	Blood Donation Camp on The occasion of World Women's Days		Mega Blood Donation Camp
	Rally on the occasion of World Water Day		Guest lecture on "Water Conservation" by shree S.N.Jagtap (ret.DFO)
	Voter"Sanklpa Patra" Filling Program for the students in format R-1187		
	Voter Awareness Rally (Two Wheel er)		

35. SWOC analysis of the department and Future plans:

Strength

- State of the art laboratories
- Continuous efforts to bridge the gap between curriculum & industry requirement
- High success rate of students
- Nurturing creativity & leadership qualities through various activities
- Highly qualified, experienced & motivated faculty
- Strong student-faculty ratio
- Strong alumni spread all over the world since last 30 years
- Healthy staff retention
- Three times NBA Accredited
- University recognized research laboratories
- Strong representation in University Senate, Board of Studies and Professional Bodies
- Most preferred study centre in mechanical engineering in the region

Weaknesses:

- Scope for improvement in intake quality of students
- Scope for improvement in campus placement
- Scope for improvement in consultancy work
- Located in industrially backward area

Opportunities:

- Increasing interest towards technical education due to “Make in India” drive

Challenges:

- Retirement of senior faculty in near future

Future Plans:

- More emphasis on entrepreneurship development, mechatronics, green technology through syllabus restructuring
- Expansion of building to create more space
- Enhancement of research facilities
- Development of production center.

Evaluative Report of Electronics and Telecommunication Engineering Department

1. **Name of the department** : **Electronics and Telecommunication Engineering**
2. **Year of Establishment** : *1983*
3. **Names of Programmes / Courses offered** (UG, PG, M. Phil. Ph.D. Integrated Masters; Integrated Ph.D., etc.) : *UG: B.E. – Electronics and Telecommunication Engineering
PG: M.E.–Electronics and Telecommunication Engineering (Full-time)
M.E. – Digital Electronics (Part-time)*

4. Names of Interdisciplinary courses and the departments/units involved:

Sr.No.	Courses	Department
1	IMQC, Automobile Engineering., Non Conventional Energy sources	Dept. of Mechanical Engineering
2	Data structure and algorithm, DBMS, Data Communication and Networking	Dept. of Computer & Engineering
3	Disaster management, Environment Management, Basic of Building Constructions, Introduction to Earth Quake Resistance	Dept. of Civil Engineering
4	E – Commerce, Knowledge Management	Dept. of Information Technology

5. **Annual/semester/choice based credit system (programme wise)** : *Semester wise Credit System*
6. **Participation of the department in the courses offered by other departments** : *Free Electives*
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.** : *Nil*
8. **Details of courses / programmes discontinued (if any) with reasons** : *Nil*
9. **Number of Teaching posts** :

	Sanctioned	Filled
Professors	4 (UG) + 1 (PG)	5 (UG) + 1 (PG)
Associate Professors	8 (UG) + 1 (PG)	4(UG)
Asst. Professors	24(UG) + 3 (PG)	27 (UG)+ 3(PG)

10. Faculty profile with name, qualification, designation, specialization (D.Sc. / D.Litt./ Ph.D. / M. Phil. etc.)

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr. S. M. Deshmukh	M.E., PhD	Professor & Head	Adv. Electronics	28	
2	Dr D. T. Ingole	M.E., PhD	Professor	Electrical Power System	31	07
3	Mrs. M. S. Joshi	M.E.	Professor	Advanced Electronics	31	
4	Mrs. M. D. Ingole	M.E.	Professor	Electrical Power Systems	29	
5	V. U. Kale	M.E.	Professor	Electronics Engineering	25	
6	Dr. S. W. Mohod	M.E., PhD	Professor	Electrical Power Systems	24	02
7	Prof. V. R. Raut	M.E.	Associate Professor	Electronics Engineering	26	
8	Mrs. J. N. Ingole	M.E.	Associate Professor	Electrical Power Systems	24	
9	Prof. S.V Patalwar	M.E.	Associate Professor	Electronics Engineering	24	
10	Prof. C. N. Deshmukh	M.E.	Associate Professor	Electronics & Telecom Engineering	24	
11	Mrs. A. P. Deshmukh	M.E.	Assistant Professor	Digital Electronics	18	
12	N. N. Khalsa	M.E., PhD	Assistant Professor	Digital Electronics	11	
13	R. G. Hirulkar	M.E.	Assistant Professor	Electronics & Telecom Engineering	5	
14	N. S. Thakare	M.E.	Assistant Professor	Digital Electronics	5.5	
15	B. P. Fuladi	M. Tech.	Assistant Professor	Electronics Engineering	5	
16	S. A. Nirmal	M. Tech.	Assistant Professor	Embedded System and VLSI Design	3.5	
17	A.B. Dhembare	M. Tech.	Assistant Professor	Signal Processing	10	
18	A.R. Pathare	M. Tech.	Assistant Professor	Signal Processing	3	
19	A.S. Utane	M. Tech.	Assistant Professor	Electronics and Telecom Engineering	3	
20	Prof. M. K. Shriwas	M.E.	Assistant Professor	Digital Electronics	5	
21	Prof. A. S. Bhopale	M.E.	Assistant	Digital	4.5	

			Professor	Electronics		
22	Prof. S. K. Latad	M.E.	Assistant Professor	Digital Electronics	5	
23	Prof. V. J. Babrekar	M.E.	Assistant Professor	Electronics and Telecom Engineering	2	
24	M.V. Tiwari	M. Tech.	Assistant Professor	Electronics System and Communication	3.5	
25	A. S. Patharkar	M. Tech.	Assistant Professor	VLSI Design	2	
26	Prof. A. I. Rokade	M. Tech.	Assistant Professor	Embedded Systems	2	
27	R.A.Wakode	M. E.	Assistant Professor	Digital Electronics	5.5	
28	Ms. S. S. Tantarvale	M.E.	Assistant Professor	Electronics and Telecom Engineering	2	
29	Ms. N. P. Dhole	M.E.	Assistant Professor	Digital Electronics	5	
30	Ms. A. P. Chaudhary	M.E.	Assistant Professor	VLSI and Embedded Systems	2	
31	Prof.Ms.P.R.Lawhale	M. Tech.	Assistant Professor	VLSI Design	3	
32	Prof.Ms.M.M.Soni	M. Tech.	Assistant Professor	VLSI Design	3.5	
33	Prof.Y.N.Thakare	M. Tech.	Assistant Professor	Electronics System and Communication	5	
34	Prof.S.G. Kavitkar	M. Tech.	Assistant Professor	Electronics System and Communication	2	
35	Prof.G.D.Patil	M. E.	Assistant Professor	Electronics Engineering	2	
36	Prof.Ms.P.R.Narkhede	M. Tech.	Assistant Professor	Electronics Engineering	1	
37	Prof.K.S.Belsare	M. E.	Assistant Professor	Electronics Engineering	3	
38	Prof.G.G.Patil	M. Tech.	Assistant Professor	Electronics System and Communication	3	
39	Prof.A.S.Mahore	M. Tech.	Assistant Professor	Digital Communication	5	
40	Prof. R. A. Juware	M. Tech.	Assistant Professor	Electrical Power systems	4	
41	A. A. Dhanbar	M. Tech.	Assistant Professor	Electrical Power Systems	3	
42	A. D. Kadu	M. E.	Assistant Professor	Digital Electronics	-	
43	A. M. Pund	M. Tech.	Assistant Professor	VLSI and Embedded Systems	-	

11. **List of Senior Visiting Faculty** : *Nil*
12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty** : *10 %*
13. **Student-Teacher Ratio (programme wise)** : *UG -15:1 PG – 12:1*
14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Sr.No	Staff	Sanctioned	Filled
1	Technical Staff	09	09
2	Administrative Staff	03	03

15. **Qualifications of teaching faculty with D.Sc /D.Litt/Ph.D/MPhil/PG.** : *Please refer table at serial no. 10 above*
16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :**

Ongoing Projects from:	No. of faculty	Grants received
a) National Funding agencies	Nil	Nil
b) International Funding agencies	Nil	Nil

17. **Departmental projects funded by DST- FIST;UGC, DBT, ICSSR, etc. and total grants received** : *Nil*
18. **Research Centre/facility recognized by the University:**
Ph.D Research Cell in 1) Electronics & Telecommunication 2) Electrical Engineering

19. Publications:

- a) Publication per faculty : 2015-16: International Journals: 1.02;
National & Intl. Conferences: 0.6
2014-15: International Journals: 1.02;
National & Intl. Conferences: 0.21
2013-14: International Journals: 0.84;
National & Intl. Conferences: 0.12
- b) Number of papers published in peer reviewed journals (national / international) by faculty and students :
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :
- Monographs : -
- Chapter in Books : -
- Books Edited : -
- Books with ISBN/ISSN numbers with details of publishers : -
- Citation Index : -
- SNIP : -
- SJR : -
- Impact factor : -
- h-index : -

20. Areas of consultancy and income generated : Nil

21. Faculty as members in

- a) National committees :
- b) International Committees :
- c) Editorial Boards.... :

Sr. No	Name	Committee	Position held	
1	Dr. D.T Ingole	Board of studies in Biomedical Engineering Studies, SGBAU Amravati	Chairman	B.O.S
2	Dr. D.T Ingole	B.O.S in Computer Science	Member	B.O.S
3	Dr. D.T Ingole	B.O.S in Electronics	Member	B.O.S
4	Dr. S.W.Mohod	Board of studies in Biomedical Engineering Studies, SGBAU Amravati	Member	B.O.S

5	Dr. D.T Ingole	Technical Program Committee	Member	International
6	Dr. D.T Ingole	International Conference on control automation and robotics 2016	Editorial Board Member	International
7	Dr. D.T Ingole	Int. Colloquium on Arts and Design Education Research 14-15	Editorial Board Member	International
8	Dr. S W Mohod	Technical Program Committee IEEE-2016 on Smart grid and clean energy,China	Member	International
9	Dr. S W Mohod	Technical Program Committee IEEE-2015 on Smart grid and clean energy,Dubai ,U.A.E	Member	International
10	Dr. S.M Deshmukh	NCSC ² D	Convener	National
11	S.V.Pattalwar	NCSC ² D	Convener	National
12	Dr.N.N Khalsa	NCSC ² D	Coordinator	National
13	Girish Patil	Editorial board Committee	Member	International

22. Students Projects

- a) Percentage of students who have done in-house projects including inter departmental / programme : 95 %
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies : 5 %

23. Awards / Recognitions received by faculty and students

Sr.No.	Name of Faculty	Research Award Received
1	Dr. S. W. Mohod	Certificate of merit awarded for securing Ph.D on occasion of 45 th engineering day 2012, the institution of engineers (India), Amravati local center
2	Dr. S.M.Deshmukh	Certificate of merit awarded for securing Ph.D on occasion of 46 th engineering day 2013, the institution of engineers (India), Amravati local center
3.	Dr. N. N. Khalsa	Certificate of merit awarded for securing Ph.D on occasion of 47 th engineering day 2013, the institution of engineers (India), Amravati local center

24. List of eminent academicians and scientists / visitors to the department:

Sr. No.	Name	Position Held	Organization/ Firm/Company
1	Dr. Anil Kakodkar	Ex. Chairman	Atomic Energy Commission of India
2	Mr. Amit Rawanker	Senior Associate	TCS limited
3	Mr Vilas Ambadkar	Senior Project Manager	Wipro
4	Mr. Yogesh Shukla	Asst. Vice President –IT	MOSER BAER INDIA LTD
5	Mr. Rakesh Kapoor	Founder and CEO	Zamroo India
6	Mr. Sandeep Uppal	Director	SVS International
7	Mr. Ritesh Agrawal	Sr. Director, PLM (Network Security)	JUNIPER
8	Mr. Sandeep Dhumale	Senior Manager	SPICE Telecom

25. Seminars/Conferences/Workshops organized & the source of funding:

- a) *National : 01 – Self funding*
b) *International : 01 – Self funding*

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
Disaster Management	17	17	10	07	100
Environmental Management	11	09	06	03	81.81
Automobile Management	18	13	08	05	72.22
Non Conventional Energy sources	23	22	13	09	95.65
DBMS	06	05	02	03	83.33
Soft Programming	18	17	07	10	94.44
E -commerce	22	21	10	11	95.45
Knowledge Management	21	12	08	04	54.54

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E.	99%	1%	Nil
M.E. (Full time)	99%	1%	Nil
M.E. (Part time)	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? (For Last Four Years)

CAT	: 08 / 38
GRE	: 00 / 17
TOFEL	: 00 / 17
GMAT	: 04 / 15
NET	: -
SLET	: -
GATE	: 33 / 145
Civil Services	: -
Defense Services	: -

29. Student Progression:

Student progression	Against % enrolled
UG to PG	5.41 %
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	2.1 %
Employed	
• Campus selection	44.47 %
• Other than campus recruitment	
Entrepreneurship/Self-employment	-

30. Details of infrastructural facilities

- a) Library : 01 (Departmental)
- b) Internet facilities for Staff & Students : Computer centers with 70 Computers & 20 Mbps Internet Connectivity, Additionally 16 faculties provided with desktop and internet facilities
- c) Class rooms with ICT facility : 06
- d) Laboratories : 10

31. Number of students receiving financial assistance from college, university, government or other agencies:

Financial Assistance	No. of Students
Scholarship	322
Free-ship	128
TFWS	16
University topper	3
College topper	3
Class topper	3
Others(Punawala foundation)	38

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Sr.No	Programmes	Special lectures/ Workshops /Seminar
1	Personality Development and Rapid Maths Program	Special Lecture
2	Campus Recruitment Training Program for 3 rd year and Final year	Workshop
3	C, C++ and D.S. Training Program for 2 nd year students and JAVA training program for 3 rd year students	Workshop
4	PCB manufacturing at copper track industries Nashik	Workshop
5	New Technology in India & Abroad (Whirlpool, Pune)	Seminar by Mr.Ashish Nimbalkar
6	Software Skills & Program Development (AMDOCS)	Guest lecture by Roshan Rathi
7	Opportunities in Corporate world (I-Gate, Mumbai)	lecture by Mr. N.S. Kale
8	Current Scenario of Industrial R & D (SAMSUNG, Bangluru)	lecture by Mr. Girish Kulkarni
9	Basic Electronics (PRMIT&R, Badnera)	lecture by Prof. B.P.Fuladi
10	Python (PRMIT&R, Badnera)	Spoken tutorial
11	Analog & Digital Circuits (PRMIT&R, Badnera)	Workshop by Prof. S.G. Kavitkar
12	Advantages of Advanced Microcontroller and their applications to solve socio-economic problems (Paramonus Systems Pvt. Ltd., Bangluru)	Seminar Mr.Nukul Pathak
13	Design & development of micro stick components (MASTECH Solution Pvt Ltd)	Seminar by Mr. Sumit Sharma,
14	Mobipreneur,Android based apps (IIT, Chennai)	Seminar
15	Embedded system design (Talent Sprint Pvt. Ltd. Hyderabad)	Seminar by Mr. Bhavesh and Mr. Chandrashekhar
16	Electric Safety (MSDCL)	Seminar by Mrs. Ashwini Chaudhary,
17	Advance Robotics using Image Processing (IIT Guwahati).	Seminar by Sudhir Yadav, Manish Gautam

18	Java Programming (Talent Sprint Pvt. Ltd., Hydrabad)	Seminar by Mr. Rahul and Mr. Ratan Kumar
19	Wireless Sensor Network (ACCMCOE, Pune)	Seminar by Dr. Udaysinh Sutar
20	Open Source Software Opportunity and Challenges (COE, Dhamangaon)	Seminar by Prof. V. A. Dahore
21	Different Types of Desk Probes and Shell Programming (Sipna COE, Amravati)	Seminar by Prof. D. M. Dakhane
22	Brief Introduction to Latex(Pune.)	Seminar by Prof. S. A. Khandelwal
23	Microsoft Azure for Digital Village (Microsoft Consultant, Ahmedabad)	Seminar by Mr. Hardik

33. Teaching methods adopted to improve student learning

Year	Innovations/ Innovative Practices Introduced in Department/ Institute	Impact on Functioning of Department/ Institute	Responsible Persons	Benefits & Beneficiaries
2015-16	Innovative practice of teachers guardian scheme in the department	18 students are allotted to one teacher to look after the overall development, their grievances, etc.	HoD, All teachers in the department	Students : The teachers and students share a cordial relationship which makes it easy for students to get their doubts cleared.
2015-16	Open book test for students	1. Students learn for understanding rather than just remembering and understand how to find information. 2. It creates an environment more conducive to the exercising of higher-order cognitive skills and to enjoy the subject as the course becomes more interesting which helps students to work at grass roots level.	HoD, Teachers	Students: The students should be a part of change and best way to do this is through open book tests. This reduces stress level and burden on recall so that students devote themselves to more sophisticated demands. This practice helps the students to attempt the questions in easier way.
	Subodh Deshmukh Personality Development and Rapid Maths Program for 2 nd year students	Department gives a lot of importance to the personality development program for students to give additional inputs to the students. Apart from setting high standards in academics, department focuses on developing self-discipline in students.	HoD, T&P Coordinator	Students: Students are able to enhance their skills which help them to explore themselves, through various activities and make them self-dependent.
	3. Campus Recruitment Training Program for 3 rd year and Final year students	Students are trained for different competitive exams of various companies and industries that help in all round development of students.	HoD, T&P Coordinator	Students : 1. To motivate students to participate in summer internship. 2. Students are trained on aptitude development, group discussions,

				personal interviews, verbal skills, personality development and even extra-curricular activities which increased confidence and employability of the students.
	4. Hobby club	At department, space is given to every student for innovation and novelty.	HoD, Teachers	Students : To become a globally acclaimed center of learning and innovation in the fields of engineering. Students are motivated to learn something new and encouraged to carry out innovative projects.
2014-15	1. Industrial visit for 3 rd year and final year	Students are encouraged to take up research and gain technical know-how through industry-institute interface.	HoD, Class teachers	Students : The students are motivated to develop industry based projects.
	2. Campus Recruitment Training Program for Final year	To enhance campus placement, the department offers campus recruitment training free of cost to the final year students.	HoD, T&P Coordinator	Students : Students are trained on aptitude development, group discussions, personal interviews, verbal skills, personality development and even extracurricular activities which increased confidence and employability of the students.
2013-14	1. C, C++ and D.S. Training Program for 2 nd year students and JAVA training program for 3 rd year students	Advanced computer courses are regularly conducted by professional agencies. The focus is on technical training, certifications from reputed institutes, live projects and internships.	HoD, Trainer	Students : To improve programming skills of the students and widen their perspective.
	2. Subodh Deshmukh Personality Development and Rapid Maths Program for 2 nd year students	Department gives a lot of importance to the personality development program for students to give additional inputs to the students. Apart from setting high standards in academics, department focuses on developing self-discipline in students.	HoD, T&P Coordinator	Students : Students are able to enhance their skills which helps to explore themselves through various activities and makes them self-dependent.
	3. Industrial visit for 2 nd , 3 rd and Final year students	Students are encouraged to take up research and gain technical know-how through industry-	HoD, Class teachers	Students : The students are motivated to develop industry based projects.

		institute interface.		
	4. Campus Recruitment Training Program for Final year	To enhance campus placement, the department offers campus recruitment training free of cost to the final year students.	HoD, T&P Coordinator	Students : Students are trained on aptitude development, group discussions, personal interviews, verbal skills, personality development and even extracurricular activities which increased confidence and employability of the students.
	5. Workshop on PCB manufacturing at copper track industries Nashik (Sept. 2013)	Students need to stay updated with development in tools and techniques related to the stream.	HoD, Teachers, Trainer	Students : 1. The department gives a lot of importance to industrial visits and training programs and conducts workshops to give additional inputs to the students. 2. To offer a wider spectrum of course with improved flexibility in order to meet expectations from copper track industrial sector.
2012-13	1. C and C++ Training Program for 2 nd year students and JAVA, advanced JAVA, core embedded training program for 3 rd year students	Advanced computer courses are regularly conducted by professional agencies. The focus is on technical training, certifications from reputed institutes, live projects and internships.	HoD, Trainer	Students : To improve programming skills of the students and widen their perspective.
	2. Campus Recruitment Training Program for Final year	To enhance campus placement, the department offers campus recruitment training free of cost to the final year students.	HoD, T&P Coordinator	Students : Students are trained on aptitude development, group discussions, personal interviews, verbal skills, personality development and even extra-curricular activities which increased confidence and employability of the students.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Details on social surveys, research or extension work undertaken to ensure social justice and empower students from under-privileged and vulnerable sections of society.

Events such as Mega Blood Donation Camps, Tree Plantation, Collection of notebooks and Study material and distribution to under privileged students, Awareness of Traffic

Rules and road safety, Water Conservation, Cleaning Programs, Energy conservation, Yoga, Women Empowerment etc. are conducted as a part of NSS activities.

35. SWOC analysis of the department and Future plans

Strengths	Weaknesses
<ul style="list-style-type: none"> • Green Environment • Three times NBA accreditation • Well Experienced Faculty • Highly Equipped Laboratories • Excellent Student placement 	<ul style="list-style-type: none"> • Foreign Collaboration • Consultancy
Opportunities	Challenges
<ul style="list-style-type: none"> • International accreditation of the degree programmes to open up global avenues for the students • Technical Skill Development Training Center 	<ul style="list-style-type: none"> • Up gradation of contemporary Knowledge • To bring about a common understanding among various educational institutions and universities in ways of deciding course equivalence, evaluation and credit sharing policies and prepare common syllabi to be followed

Evaluative Report of Civil Engineering Department

1. Name of the department: Department of Civil Engineering
2. Year of Establishment: 1983
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
 UG: Bachelor of Engineering (Civil)
 PG: 1 Master of Engineering (Structural Engineering), 2 Master of Engineering (Environmental Engineering) – Part-time, 3 Ph. D.
4. Names of Interdisciplinary courses and the departments/units involved:
 Basics of Construction, Introduction to Earthquake Engineering, Disaster Management,

Sr.No.	Courses	Semester	Department
1	Manufacturing Techniques, Production Management	V	Dept. of Mechanical Engineering
2	Automobile Engineering, Nonconventional Energy System	VI	Dept. of Mechanical Engineering
3	Data Communication and Networking	V	Dept. of Computer & Engineering
4	Software Project Management	VI	Dept. of Computer & Engineering
5	Fiber Optic Communication	V	Dept. of Electronics and Telecommunication
6	Introduction to Wireless Technology	VI	Dept. of Electronics and Telecommunication
7	IT Ethics and Practices, Introduction to Computer Networks	V	Dept. of Information Technology
8	E – Commerce, Knowledge Management	VI	Dept. of Information Technology

5. Annual/ semester/choice based credit system (programme wise)
 Bachelor of Engineering (Civil) – Choice Based Credit System.
 Master of Engineering (Structural Engineering) – Semester
 Master of Engineering (Environmental Engineering) – Part-time - Semester
6. Participation of the department in the courses offered by other departments:
 Strength of Materials Lab is used by Department of Mechanical Engineering for conducting practicals/ tests. Reinforced Cement Concrete, Strength of Materials, and Environmental Engineering Labs are available to all departments for testing and research.
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil

8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching posts:

	Sanctioned	Filled
Professors	4	3
Associate Professors	8	3
Asst. Professors	24	29

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4 years	Papers Published NJ/IJ/IC
Dr. P.A.Kadu	ME (Env. Engg), PhD	Associate Professor & Head	Environmental Engg	24	NIL	0/7/3
Prof. A. R. Mundhada	ME (Structure), PhD (Pursuing), FIE	Professor	Structural Engg	31	NIL	2/12/7
Dr. P. S. Pajgade	ME (Earthquake Engg), MBA, PhD, FIE	Professor	Earthquake Engg	30	2	12/10/6
Dr. N. W. Ingole	ME (Env. Engg), PhD, FIE	Professor	Environmental Engg	27	2	1/16/3
Prof. M. Iqbal	ME (Env. Engg), PhD (Pursuing)	Associate Professor	Environmental Engg	32	NIL	--
Prof. R. Y. Kale	ME (Geotech Engg), PhD (Pursuing), MIE	Associate Professor	Geotechnical Engg	28	NIL	--
Prof. S. G. Adhau	BE (Civil), MIE	Assistant Professor	---	30	NIL	--
Prof. S. D. Bonkile	ME (Const. Mgt), PhD (Pursuing)	Assistant Professor	Const. Mgt	27	NIL	--
Prof. M. V. Mohod	M Tech (Structural Engg)	Assistant Professor	Structural Engg	5	NIL	2/8/0
Prof. M. A. Banarase	ME (Structural Engg)	Assistant Professor	Structural Engg	5	NIL	0/4/3
Prof. Mohd. Shahezad	ME (Structural Engg)	Assistant Professor	Structural Engg	5	NIL	1/5/3
Prof. S. V. Dharpal	ME (Env. Engg)	Assistant Professor	Environmental Engg	8	NIL	--

Prof. Riyaz Sameer	ME (Structural Engg)	Assistant Professor	Structural Engg	5	NIL	1/2/2
Prof. S. R. Band	M Tech (Structure)	Assistant Professor	Structural Engg	4	NIL	--
Prof. S. D. Malkhede	ME (Structure)	Assistant Professor	Structural Engg	5	NIL	0/1/0
Prof. S. S. Vinchurkar	ME (Env. Engg)	Assistant Professor	Environmental Engg	8	NIL	2/1/0
Prof. A. S. Deshmukh	ME (Structural Engg)	Assistant Professor	Structural Engg	4	NIL	0/2/3
Prof. S. R. Bhuskade	ME (Structural Engg)	Assistant Professor	Structural Engg	2	NIL	0/2/2
Dr. N. P. Kataria	M Tech (Structural Dynamics in Earthquake Engg)	Assistant Professor	Structural Dynamics in Earthquake	4	NIL	0/5/2
Prof. A. A. Sonwal	ME (Env. Engg)	Assistant Professor	Environmental Engg	4	NIL	--
Prof. H. P. Nistane	M Tech. (Env. Engg)	Assistant Professor	Environmental Engg	3	NIL	0/1/0
Prof. Ms. S. O. Rathi	ME (Const. Engg & Mangt)	Assistant Professor	Const. Mgt	4	NIL	0/1/0
Prof. Ms. S. C. Sagane	ME (Structural Engg)	Assistant Professor	Structural Engg	3	NIL	0/1/0
Prof. Ms. N. W. Chorey	M Tech (Env. Engg)	Assistant Professor	Environmental Engg	2	NIL	0/1/0
Prof. Ms. R. S. Adhau	M Tech (Env. Engg)	Assistant Professor	Environmental Engg	2	NIL	0/1/0
Prof. R. M. Wanare	M Tech (Geotech Engg)	Assistant Professor	Geotechnical Engg	2	NIL	0/1/0
Prof. V. P. Revekar	M Tech (Transportation Engg)	Assistant Professor	Transportation Engg	2	NIL	0/1/0
Prof. Ms. P. G. Yadav	M Tech (Env. Engg)	Assistant Professor	Environmental Engg	2	NIL	0/1/0
Prof. P. V. Kolhe	M Tech (Geotechnical Engg)	Assistant Professor	Geotechnical Engg	1	NIL	2/0/0
Prof. R. V. Langote	M Tech (Geotechnical Engg)	Assistant Professor	Geotechnical Engg	2	NIL	--
Prof. Ms. S. A. Baitule	ME (Structural Engg)	Assistant Professor	Structural Engg	Less than 1	NIL	--
Prof. Ms. R. S. Thakare	ME (Const. Mgt)	Assistant Professor	Const. Mgt	Less than 1	NIL	--
Prof. T. A. Dalwi	ME (Structural Engg)	Assistant Professor	Structural Engg	1	NIL	--
Prof. P. S. Deshmukh	ME (Structural Engg)	Assistant Professor	Structural Engg	Less than 1	NIL	--
Prof. M. S. Mahalle	ME (Transportation)	Assistant Professor	Transportation Engg	3	NIL	--

11. List of senior visiting faculty: Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: 6.38%
13. Student -Teacher Ratio (programme wise):
B E (Civil Engg) : 15, M E (Structural Engg.): 6
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Filled Posts – Administrative: 8, Technical: 6
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.: Refer to table shown in point 10 above. (All faculty except one is PG).
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil
18. Research Centre /facility recognized by the University: Environmental Engineering Laboratory, Reinforced Cement Concrete Laboratory
19. Publications:
 - * a) Publication per faculty
 - * Number of papers published in peer reviewed journals (national / international) by faculty and students
 - * Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
 - * Monographs
 - * Chapter in Books
 - * Books Edited
 - * Books with ISBN/ISSN numbers with details of publishers
 - * Citation Index
 - * SNIP
 - * SJR
 - * Impact factor
 - * h-index

Refer to last column of table shown in point 10 above.

20. Areas of consultancy and income generated

Year	Broad Area in which Consultancy Services Provided	Type of Consultancy Services	Revenue Generated (Rs.)	Name of Faculty(s) involved
2015-16	Civil Engineering	Related to Geotechnical Engineering,	17,95,534.00	Prof. R. Y. Kale, Prof S.D.

		Transportation Engineering, Reinforced Cement Concrete, Strength of Material		Bonkile, Prof. M.A. Banarase, Prof.Riyaz Sameer, Prof. N. P. Katariya, Prof. R. S. Wanare, .Prof. M. V. Mohod, Prof. V. P. Ravekar
2014-15	Civil Engineering	Related to Geotechnical Engineering, Transportation Engineering, Reinforced Cement Concrete, Strength of Material, Environmental Engineering,	18,06,746.00	Prof. R. Y. Kale, Prof S.D. Bonkile, Prof. M.A. Banarase, Prof.Riyaz Sameer, Prof. R. S. Wanare, Prof. M. V. Mohod, Prof.M. Iqbal, Prof. S. V. Dharpal
2013-14	Civil Engineering	Related to Geotechnical Engineering, Transportation Engineering, Reinforced Cement Concrete, Strength of Material	13,88,033.00	Prof. R. Y. Kale, Prof S.D. Bonkile, Prof. M.A. Banarase, Prof.Riyaz Sameer, Prof. M. V. Mohod
2012-13	Civil Engineering	Related to Geotechnical Engineering, Transportation Engineering, Reinforced Cement Concrete, Strength of Material, Environmental Engineering,	6,80,573.00	Prof. R. Y. Kale, Prof S.D. Bonkile, Prof. N. W. Ingole, Prof. M.A. Banarase, Prof.Riyaz Sameer

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards...

1 Dr N W Ingole, 2 Dr P S Pajgade

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme: 100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: 0%

23. Awards / Recognitions received by faculty and students

Faculty: Nil

Students:

Academic Achievement – Silver Medals: 9

Games/Sports/Cultural Activities - Color Holders: 12, Winners: 2, Runners: 10

24. List of eminent academicians and scientists / visitors to the department

1. Prof D N Singh, Professor, Department of Civil Engineering, IIT Bombay
2. Prof D M Dewaikar, Professor, Department of Civil Engineering, IIT Bombay
3. Dr Ashwani Luthra, Professor, Guru Ramdev School of Planning, Amritsar
4. Mr Sandeep Zade, Senior Project Engineer, TCE
5. Mr Prakash Shah, Head & CEO, ELEMATIC India Pvt Ltd.
6. Dr Girish Pophali, Principal Scientist, NEERI.

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Workshops: 1 Two Week STTP, Geotechnical Aspects in Civil Engineering Structures – Self Financed, 2 Two Week STTP, Environmental Studies – ISTE and IIT Bombay

Conference: 1 Smarter Solutions for better tomorrow – Self Financed

b) International Conference: 1 Science and Technology for Sustainable Development – Self Financed

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
Data Communication and Networking	10	10	8	2	70%
Fiber Optic Communication	23	23	19	4	47.82%
IT Ethics and Practices	4	4	4	0	50%
Manufacturing Techniques	133	133	96	34	96.15%
Production Management	43	43	29	14	95.34%
Automobile Engineering	36	36	27	9	77%
E-Commerce	15	15	10	5	93.3%
Introduction to Wireless Technology	40	40	27	13	80%
Knowledge Management	7	7	6	1	100%
Nonconventional Energy	93	93	74	19	98%

System					
Software Project Management	2	2	2	0	100%
Database Management System	14	14	9	5	64.28%
Introduction to Computer Networks	4	4	4	0	75%

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B E (Civil)	98.74	1.26	0
M E (Structural Engg)	100	0	0
M E (Environmental Engg)	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

GATE: 27, UPSC/ MPSC/ PSU: 44, TOEFL: 1

29. Student progression

Student progression	Against % enrolled
UG to PG	31.6
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	
- Campus selection	1.53
- Other than campus recruitment	45.7
Entrepreneurship/Self-employment	1.38

30. Details of Infrastructural facilities

- Library: Departmental Library, 33.50 sqm, 506 titles
- Internet facilities for Staff & Students: 60 Computers in labs are available to students for internet access. All faculty has access to computer systems with internet.
- Class rooms with ICT facility

Class rooms: 413.68 sqm area, 6 Nos

Computer Lab: 150.00 sqm
 Seminar Hall (for Expert Lectures): 132.00 sqm
 d) Laboratories: 779.49 sqm area, 10Nos.

31. Number of students receiving financial assistance from college, university, government or other agencies: 340
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts: No of lectures organized in 2014-15: 8
33. Teaching methods adopted to improve student learning
 Use of AV aids like Laptop, projector during lectures effective delivery of content.
 Use of end of topic quizzes, question answers during lectures, Use of Computer Based Tutorials, Expert Lectures, Industrial/ Site visits, Student participation in technical events
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
 1 Blood Donation Camp, 2 Tree Plantation, 3 Cleanliness Drive as part of Swachh Barat Abhiyan, 4 AIDS awareness program, 5 Road Safety Awareness Program as part of Rasta Suraksha Abhiyan of RTO, 6 Distribution of Drawing Sheets donated by students, to Blind Students, 7 Clothes distribution and Shramadan at Matoshri Wrudhashram, 8 Voter Awareness Rally, 9 Female Foeticide Awareness Camp etc
35. SWOC analysis of the department and Future plans

Strength

Department reputed for quality of teaching and faculty
 Availability of quality equipments for testing and research
 Availability of Infrastructural Facilities
 Good student enrollment

Weakness

Remote location away from industrial area.
 Primarily agrarian economy, lack of entrepreneurial qualities

Opportunities

Huge growth potential in infrastructural sector
 Upcoming Industrial area near Amravati

Concerns

Lack of local employment avenues
 Lack of local entrepreneurial opportunities.

Evaluative Report of Computer Science & Engg Departments

1. **Name of the department:** Computer Science & Engineering
2. **Year of Establishment:** 1985
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):** UG, PG(Part Time & Full Time)
4. **Names of Interdisciplinary courses and the departments/units involved:**
 - **Software Project Management:** Mechanical Engineering, Information Technology, Electronics & Telecommunication, Civil Engineering
 - **Data Structures and Algorithm:** Mechanical Engineering, Information Technology, Electronics & Telecommunication, Civil Engineering
 - **Database Management System:** Mechanical Engineering, Information Technology, Electronics & Telecommunication, Civil Engineering
 - **Data Communication and Networks:** Mechanical Engineering, Information Technology, Electronics & Telecommunication, Civil Engineering
 - **Mathematics-III** : First Year Engineering
5. **Annual/ semester/choice based credit system (programme wise):** Semester Credit based system
6. **Participation of the department in the courses offered by other departments:** Free Electives (Software Project Management, Database Management System, Data Structures and Algorithm and Data Communication & Networking), subjects of first years-Computer Programming
7. **Courses in collaboration with other universities, industries, foreign institutions, etc. -** NA
8. **Details of courses/programmes discontinued (if any) with reasons:** NA

9. Number of Teaching posts

	Sanctioned	Filled
Professors	5	2
Associate Professors	8	2
Asst. Professors	31	37

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for last 4 years
Prof. S. V. Pattalwar	M.E., PhD (Pursuing)	I/C Head & Assistant	Parallel Computing	26	--
Dr. G. R. Bamnote	PhD, M.E., B.E.	Professor	Computer Science & Engineering	26	05 (Awarded) 06 (Registered)
Dr. M.A. Pund	PhD, M.E., B.E.	Professor	Artificial Intelligence & e-Learning Systems	26	1 Registered
Dr. A.S. Alvi	PhD, M.E., B.E.	Professor	Artificial Intelligence & Intelligent Systems	22	5 Registered
Prof. Ms. R. R. Tuteja	M.E.	Assistant Professor	Data Mining	22	--
Prof. S. P. Akarte	M.E.	Assistant Professor	Data Mining, Web Technology	9	--
Prof. Ms. S. W. Ahmed	M.E.	Assistant Professor	Data Mining, Web Development	9	--
Prof. S. S. Dandge	M.E.	Assistant Professor	Automata Compiler, Algorithm, Database	5	--
Prof. N. M. Tarbani	M.Tech.	Assistant Professor	Networking, Algorithm, Compiler	5	--
Prof. P. K. Agrawal	M.Tech.	Assistant Professor	Artificial Intelligence, Computer Networks,	4	--
Prof. G. J. Sawale	M.E.	Assistant Professor	Networking, Database	6	--
Prof. A. A. Chaudhari	M.E.	Assistant Professor	Artificial Intelligence	4	--
Prof. Ms. R. A. Kale	M.E.	Assistant Professor	System Software	5	--
Prof. Ms. Y. S. Alone	M.E.	Assistant Professor	Database, Algorithm	4	--
Prof. Ms. P. P. Deshmukh	M.E.	Assistant Professor	Artificial Intelligence	4	--

Prof. Ms. K. R. Hole	M.E.	Assistant Professor	Algorithmics, Database System	3	--
Prof. Ms. M. A. Deshmukh	M.E.	Assistant Professor	Data Mining	3	--
Prof. Ms. R. A. Gulhane	M.E.	Assistant Professor	Real-Time System, Database System	3	--
Prof. Ms. V. S. Sakharkar	M.E.	Assistant Professor	Database System	3	--
Prof. Ms. D. H. Deshmukh	M.E.	Assistant Professor	Data Mining	4.7	--
Prof. Ms. P.B. Lohiya	M.E.	Assistant Professor	Real-Time System	4.7	--
Prof. S. V. Deshmukh	M.E.	Assistant Professor	Embeded System, Computing, Database System	7.5	--
Prof. Ms. R. A. Meshram	M.Tech.	Assistant Professor	Data Mining, Networking	2.5	--
Prof. C. M. Goswami	M.E.	Assistant Professor	Data Communication	6	--
Prof. Ms. S. H. Kuche	M.E.	Assistant Professor	Computer Network	4	--
Prof. A. U. Chaudhari	M.E.	Assistant Professor	Networking	2 yrs (Teaching) 10 months (Industry)	--
Prof. N. S. Khachane	M.Tech.	Assistant Professor	Computer Network, Artificial Intelligence	6.2	--
Prof. G. B. Saboo	M.Tech.	Assistant Professor	Embedded System	3	--
Prof. Ms. A.B. Paturkar	M.E.	Assistant Professor	Image Processing	2	--
Prof. Ms. N. M. Yawale	M.E.	Assistant Professor	Data Security	1 Yr (Polytechnic) 2 yr (Engg.)	--
Prof. Ms. S.G. Pundkar	M.E.	Assistant Professor	Computer Network	2	--
Prof. Ms. S. N. Hiwse	M.E.	Assistant Professor	Web Application	2	--
Prof. Ms. K. H. Deshmukh	M.E.	Assistant Professor	Image Processing	2	--
Prof. Ms. N. V. Pardakhe	M.E.	Assistant Professor	Web Mining	4.5	--
Prof. Ms. S.V. Kalbande	M.E.	Assistant Professor	Computer Network	1.1	--
Prof. S.V. Baghel	M.Tech.	Assistant Professor	Cloud Security	1.1	--
Prof. R.R. Karwa	M.Tech.	Assistant Professor	Database, Natural Language Processing	1.1	--
Prof. Ms. P.V. Bobade	M.E. (Pursuing)	Pro-Term Lecturer	Networking	4.5	--
Prof. Ms. A. P. Ambarkhane	M.Tech	Assistant Professor	Computer Organization	2	--
Prof. P .P. Kadu	M.Tech.	Assistant Professor	Artificial Neural Network	4.5	--

Prof. Ms. N. A. Deshmukh	M.E. (Pursuing)	Pro-Term Lecturer	Cloud Computing	--	--
Prof. Ms. Y. A. Thakare	M.E.	Assistant Professor	Image Mining	3.5 yrs (Polytechnic)	--
Prof. A. O. Thakare	PhD (Pursuing)	Assistant Professor	Database, Data Mining and Warehousing	13	--

11. List of senior visiting faculty

S.N.	Title	Delivered By	Date	Students / Faculty
1	Value Education by Ramkrishna Mission	Swami Aryananda, Mr. P. M. Puppal	3,4-March-2016	Students
2	Need for restructuring of UG & PG syllabus in accordance with trends in corporate	Mr. Girish Kulkarni	28-Dec-15	Faculty
3	Current trends in Corporate sectors	Mr. Girish Kulkarni	28-Dec-15	Students
4	Aiming and Preparing for Campus Selection	Mr. Anup Rawka	16-Oct-15	Students
5	Web Services	Mr.Nakul deshmukh founder and director of ibase education Amravati	16-Sep-15	Students
6	Digital Marketing & Latest Online Website Designing Tools	Mr.Subhash Gore & Ms.Mohini Modak, WebmasterKey, Pune	15-Sep-15	Students
7	I-Base Technology	Mr.Nakul Deshmukh	09-Sep-15	Students
8	Research Methodology		01-Sep-15	
9	Take A Stand For your Self	Mr.Nitin Bhojwani, Cognizant, Pune	27-Aug-15	Students
10	Enterprise Application Development-Panaramic Views	Mr.Nitin Madwade, Enterprise Software Development, Pune	27-Aug-15	Students
11	opportunities In Abroad Studies	Mr.Nilesh Shah	11-Aug-15	Students
12	Problem Statement Formulation From Real world	Prof.Anup Kadam ,Army Institute of Technology, Pune	03-Aug-15	Students
13	"Cyber Security Threats & Prevention"	Mr.Mayuresh Barabde, G.H.Raisoni, Amravati	26-Mar-15	Students
14	Career in IT-Industries	Mr.Ashvin Bansode & Mr.Vyankatesh tarodkar, TCS Mumbai	12-Feb-15	Students

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty 0%

13. Student -Teacher Ratio (programme wise): 15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Administrative staff	01
Support Staff (technical)	10
Sanctioned	--
Filled	11

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.
Ph.D.: 3
PG.: 38
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Year	Scheme for which Applied	Title of Project	Name of Investigator	Grant Received
2011-2012	Research Promotion Scheme (RPS)	Predictive Model for Diabetes using Data Mining Techniques.	1. Dr. D.T.Ingole 2. Dr. G.R.Bamnote	Received Grant (UGC) in Aid of Rs. 10.43 Lakhs.
2010-2011	Modernisation & Removal of Obsolescence in Technical Education (MODROBS)	Modernization of Computer Laboratory	1. Dr. G.R.Bamnote	Received Grant (UGC) in Aid of Rs. 05 Lakhs.

18. Research Centre /facility recognized by the University

The institute encourages faculty to enrich their knowledge to be experts in their field of interest by providing enormous support. Computer Science & Engineering department have been recognized as research center. All the detail information about research lab is as follows:

Computer Science and Engineering			
1	Research LAB	HP Dual Core, Intel Motherboard, 4 GB RAM, 500 GB HDD, 18.5 LED Screen, keyboard, Mouse	557,000
2	e-Yantra Lab	Fire Bird V 2560	71996
		Spark V Robot	22495
		Fire Bird V P89V51RD2 adapter card	11812.5
		Fire Bird V LPC2148 adapter card	16495
		Zigbee Modules 100 m range	14990
		Zigbee Modules Adapter	10495
		Metal-gear Servo Motors	9900
		Servo Motor Based Gripper kit for the Fire Bird V robot	5600
		Sharp GP2Y0A21YK0F infrared range sensor (10cm to 80 cm)	7490
		Gyroscope, accelerometer and GPS interfacing module for the robot	1600
		GPS receiver	2798
		Two Axis Camera pod with wireless camera	13860
		L3G4200 3 axis digital gyroscope	2998
Sharp GP2Y0A710K0F infrared range sensor (100cm to 500 cm)	4998		

The faculty members of Computer Science & Engineering department are involved in research at individual/collaborative level. The expertise of faculty members is detailed below:

S.No.	Name of Supervisor	Registration No.	No. of Scholars		Department
			Registered	Awarded	
1	Dr. G.R. Bamnote	SGBAU/Ph.D/293/2010/22/2/2010	6	5	Computer Sci & Engg
2	Dr.A.S.Alvi	Noti.10/2014/20/1/2014	5	0	Computer Sci & Engg
3	Dr. M.A. Pund	Noti.13/2014/14/11/2014	1	0	Computer Sci & Engg
4	Dr. G.R. Bamnote	SGBAU19/2012/726/2/2012	0	0	Information Tech.
5	Dr. A.S.Alvi	SGBAU10/2014/20/01/01/2014	0	0	Information Tech.
	Dr. M.A. Pund	SGBAU135/2014/14/11/2014	0	0	Information Tech.

19. Publications:

* a) Publication per faculty

Department of Computer Science and Engineering						
1	Prof. S. V. Pattalwar	-	6	6	-	-
2	Dr. G. R. Bamnote	-	1	11	-	-
3	Dr. M.A. Pund	-	4	4	-	-
4	Dr. A.S. Alvi	-	5	5	-	-
5	Prof. Ms. R. R. Tuteja	-	-	-	-	-
6	Prof. S. P. Akarte	-	4	1	-	-
7	Prof. Ms. S. W. Ahmed	-	2	3	-	-
8	Prof. S. S. Dandge	-	4	4	-	-
9	Prof. N. M. Tarbani	-	2	4	-	-
10	Prof. P. K. Agrawal	-	4	3	-	-
11	Prof. G. J. Sawale	-	3	1	-	-
12	Prof. A. A. Chaudhari	-	2	2	-	-
13	Prof. Ms. R. A. Kale	-	4	2	-	-
14	Prof. Ms. Y. S. Alone	-	2	1	-	-
15	Prof. Ms. P. P. Deshmukh	-	6	4	-	-
16	Prof. Ms. K. R. Hole	-	4	3	-	-
17	Prof. Ms. M. A. Deshmukh	-	3	2	-	-
18	Prof. Ms. R. A. Gulhane	-	5	5	-	-
19	Prof. Ms. V. S. Sakharkar	-	6	2	-	-
20	Prof. Ms. D. H. Deshmukh	-	4	2	-	-
21	Prof. Ms. P.B. Lohiya	-	4	2	-	-
22	Prof. S. V. Deshmukh	-	1	-	-	-
23	Prof. Ms. R. A. Meshram	-	6	4	-	-
24	Prof. C. M. Goswami	-	2	-	-	-
25	Prof. Ms. S. H. Kuche	-	3	2	-	-
26	Prof. A. U. Chaudhari	-	2	1	-	-
27	Prof. N. S. Khachane	-	2	-	-	-
28	Prof. G. B. Saboo	-	1	-	-	-
29	Prof. Ms. A.B. Paturkar	-	4	3	-	-
30	Prof. Ms. N. M. Yawale	-	4	2	-	-
31	Prof. Ms. S.G. Pundkar	-	2	2	-	-
32	Prof. Ms. S. N. Hiwse	-	1	2	-	-
33	Prof. Ms. K. H. Deshmukh	-	1	2	-	-
34	Prof. Ms. N. V. Pardakhe	-	3	2	-	-
35	Prof. Ms. S.V. Kalbande	-	3	2	-	-
36	Prof. S.V. Baghel	-	1	2	-	-
37	Prof. R.R. Karwa	-	2	1	-	-
38	Prof. Ms. P.V. Bobade	-	1	-	-	-
39	Prof. Ms. A. P.	-	2	2	-	-
40	Prof. P .P. Kadu	-	2	1	-	-

* Number of papers published in peer reviewed journals (national / international) by faculty and students

Department of Computer Science and Engineering						
1	Mohan Kumar	-	1	1	-	-
2	Ms. Ashwini Chutule	-	2	2	-	-
3	Ms. Pooja Bhure	-	2	2	-	-
4	S. L. Satarkar	-	1	-	-	-
5	S. S. Agrawal	-	1	2	-	-
6	Sheetal Dhande	-	-	1	-	-
7	Swati Chandurkar	-	2	2	-	-
8	V. Deshmukh	-	1	1	-	-
9	N. Bhagat	-	1	1	-	-
10	Sohel A. Bhura	-	1	1	-	-
11	Ankit Deshmukh	-	1	-	-	-
12	Milind Padgaonkar	-	1	-	-	-
13	Ashwariya Kadu	-	1	1	-	-
14	Snehal Deshmukh	-	1	1	-	-
15	Neha Pawar	-	2	1	-	-
16	Ajinkya Gudadhe	-	1	1	-	-
17	Gaurav Chimote	-	1	1	-	-
18	Rashika S. Badre	-	1	1	-	-
19	Hema Reddy	-	1	-	-	-
20	Shruti Jawanjal	-	2	2	-	-
21	Hema Reddy	-	1	-	-	-
22	Sanchit Devikar	-	1	1	-	-
23	Suraj Oza	-	1	1	-	-
24	Priti Kohar	-	1	1	-	-
25	Pooja Bhubhure	-	1	1	-	-
26	Kanchan Ganvir	-	1	1	-	-
27	Kiran Rathod	-	1	1	-	-
28	Ram Dafale	-	1	1	-	-
29	Ashwini Chowbitkar	-	1	1	-	-
30	Kiran Ubarhande	-	1	1	-	-
31	Lushar Sahare	-	1	1	-	-
32	Abhinav Nishankar	-	1	1	-	-
33	Pallavi Keshwani	-	1	1	-	-
34	Ritesh Nanwani	-	1	1	-	-

20. Areas of consultancy and income generated - Nil

21. Faculty as members in

- a) National committees: NA
- b) International Committees: NA
- c) Editorial Boards: Reviewers of International Journals.
 - i) Dr. G.R.Bamnote
 - ii) Dr. A.S.Alvi

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme: 100%
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: 0%

23. Awards / Recognitions received by faculty and students

Year	Name of Faculty	Title of Award/ Recognition at State/National/ International Level for Excellence in Teaching	Award Agency and Date/Year of Award
2015-16	Dr. G. R. Bamnote	National Award for Promising Engineering Teacher for Creative Work Done In Technical Education	ISTE New Delhi 2014.

24. List of eminent academicians and scientists / visitors to the department

S.N.	Name
1	Dr. Anil Kakodkar
2	Prof. Shashikant Chaudhary, CEO, Nagpur Angels, Nagpur.
3	Dr. Madhavi Pradhan,AISSMSCOE, Pune
4	Swami Aryananda, Mr. P. M. Puppal
5	Mr. Girish Kulkarni, Manager (R&D) Samsung India Ltd. Bangalore
6	Dr. Jayant Umale, HOD, CSE, PCCOE, Pune
7	Dr. Parikshit Mahalle, Professor & Head, SKNCOE, Pune
8	Mr. Anup Rawka, USA
9	Mr.Nakul deshमुख founder and director of ibase education Amravati
10	Mr.Subhash Gore & Ms.Mohini Modak,WebmasterKey,Pune
11	Mr.Nakul Deshmukh
12	Mr.Nitin Bhojwani,Cognizant,Pune
13	Mr.Nitin Madwade,Enterprise Software Development,Pune
14	Mr.Nilesh Shah
15	Prof.Anup Kadam ,Army Institute of Technology,Pune
16	Mr.Mayuresh Barabde,G.H.Raisoni,Amravati
17	Mr.Ashvin Bansode & Mr.Vyankatesh tarodkar, TCS Mumbai

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Sr. No.	Seminars/ Conferences/Workshops	Source of Funding
1	National Conference on Sustainable Computing and Communication for Development	IE ,IETE, SBI ,Self
2.	Paper Presentation Competition in Techknow-Expert 2016.	SBI, IETE Self

b) International : ICSTSD

Sr. No.	Seminars/ Conferences/Workshops	Source of Funding
1	International Conference on Science & Technology for Sustainable Development. (Satellite Conference, Kaula Lumpur, Malaysia)	Self

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
Software Project Management	73	66	32	34	93.93
Data Structures and Algorithm	122	108	59	49	98.14%
Database Management System	145	134	47	24	85.07
Data Communication and Networking	91	84	40	44	84.52

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
M.E	100%	0%	0%
B.E (Final Year)	99%	1% (2 Students)	0%
B.E (Third Year)	100%	0%	0%
B.E (Second Year)	100%	0%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

4 Students cleared GATE 2016.

29. Student progression

Student progression	Against % enrolled
UG to PG	6.7%
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed	
- Campus selection	30.31 %
- Other than campus recruitment	20.66%
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities

a) Library:

i) Books: 380

ii) Titles: 330

iii) Journals facilitated through central library

iv) e-journals: IEEE, Springer, Elsevier, etc.

b) Internet facilities for Staff & Students: Yes

c) Class rooms with ICT facility:

7 Classrooms with following facilities:

i) LCD Projector

ii) LCD Screen

iii) Computers

d) Laboratories

7 Laboratories with the following details:

Name of Laboratory	Name of Equipments	Specifications	Quantity
Hardware & Networking laboratory	Computer Systems	Compaq All in one Pc Model No cq1-1020 Ix Intel Atom Processor 1.66GHZ.1Gb Ram,320Gb Hdd,Dvd writer linux operating system Black colour 18.5"TFT Display Intel 3150 Graphic Keyboard, optical Mouse wireless Usb Lan card Rs16800/each	20

		Total cost for 40 System: Rs. 6,40,000+Rs.32,000(VAT) =Rs.6,72,000	
	Hp Laserjet Printer		01
PC Lab	Computer Systems	Compaq All in one Pc Model No cq1-1020 Ix Intel Atom Processor 1.66GHZ.1Gb Ram,320Gb Hdd,Dvd writer linux operating system Black colour 18.5"TFT Display Intel 3150 Graphic Keyboard, optical Mouse wireless Usb Lan card Rs16800/each Total cost for 40 System: Rs. 6,40,000+Rs.32,000(VAT) =Rs.6,72,000	20
	Hp Laserjet Printer		01
Computer Lab	Computer Systems	All in one Desk top computer Brand HP Model:-Dream screen processor Intel Atom TM processor D525 1.8GHZ chipset Intel N.M10 Express chipset memory,memory standard 2Gb.800MHz DDR3,Memory slot 2Dimm sockets,Intel drive 250gb SATA II(7200 Rpm)super multi SATA drive and double Layer Support Lightscribe Technolgy, Ports lan srew Head Phone jack4 Usb1 Microphone Jack Intergrated webcam Audio features 2x3w speakers Input devices key board Hp Usb Key board	19
Web Technology Lab	Computer Systems	Brand:-Dell (Optiplex) 3010 DT Chesis Specification:-3rd Generation Processor,Intel core I3 Processor 3rd gen 3.3Ghz 4Gb Ram,250Gb HDD Dos,No DVD with HD Graphics Inbuilt 18.5 LED TFT Monitor 3Yr Onsite warranty	20
	Hp Laserjet Printer		01
Multimedia Lab	Computer Systems	Brand:-Dell (Optiplex) 3010 DT Chesis Specification:-3rd Generation Processor,Intel core I3 Processor 3rd gen 3.3Ghz 4Gb Ram,250Gb HDD Dos,No DVD with HD Graphics Inbuilt 18.5 LED TFT Monitor 3Yr Onsite warranty	20
	All in one (Printer & Scanner)		01

	LCD Projector	Projector sony VPL Dx 120 (Rs 32800 No.) 2]Projection screen 6"X8" 3]ceilling mount 4]Cable RGb 15 mtr 5]Cable power	01
OS Lab	Computer Systems	Brand:-Dell (Optiplex) 3010 DT Chesis Specification:-3rd Generation Processor,Intel core I3 Processor 3rd gen 3.3Ghz 4Gb Ram,250Gb HDD Dos,No DVD with HD Graphics Inbuilt 18.5 LED TFT Monitor 3Yr Onsite warranty	30
	Hp Laserjet Printer		01
Research Lab	Computer Systems	HP Dual core,Intel Motherboard,4GB RAM,500 GB HDD,18.5 LED Screen,Keyboard,Mouse	20
	Hp Laserjet Printer		01

31. Number of students receiving financial assistance from college, university, government or other agencies

Last year 435 Students received financial assistance from government.

1 Topper from each section receives financial assistance from College.

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

S.N.	Title	Delivered By	Date	Guest Lect / Workshop	For Which Students (Second, Third, Final)
Session:2015-16					
1	Value Education by Ramkrishna Mission	Swami Aryananda, Mr. P. M. Puppal	3,4-March-2016	Students	Third year & Second year
2	Need for restructuring of UG & PG syllabus in accordance with trends in corporate	Mr. Girish Kulkarni	28-Dec-15	Faculty	CSE faculty
3	Current trends in Corporate sectors	Mr. Girish Kulkarni	28-Dec-15	Students	Third Year
4	Aiming and Preparing for Campus Selection	Mr. Anup Rawka	16-Oct-15	Students	Third Year
5	Web Services	Mr.Nakul deshmkh founder and director of ibase education Amravati	16-Sep-15	Students	Second year

6	Digital Marketing & Latest Online Website Designing Tools	Mr.Subhash Gore & Ms.Mohini Modak, WebmasterKey, Pune	15-Sep-15	Students	Second year
7	I-Base Technology	Mr.Nakul Deshmukh	9-Sep-15	Students	Third year & Second year
8	Research Methodology		1-Sep-15		Second year
9	Take A Stand For your Self	Mr.Nitin Bhojwani, Cognizant, Pune	27-Aug-15	Students	Final year
10	Enterprise Application Development-Panaramic Views	Mr.Nitin Madwade, Enterprise Software Development, Pune	27-Aug-15	Students	Final year(Second shift)
11	opportunities In Abroad Studies	Mr.Nilesh Shah	11-Aug-15	Students	Third Year
12	Problem Statement Formulation From Real world	Prof.Anup Kadam, Army Institute of Technology, Pune	3-Aug-15	Students	Third Year
13	"Cyber Security Threats & Prevention"	Mr.Mayuresh Barabde, G.H.Raisoni, Amravati	26-Mar-15	Students	Final year
14	Career in IT-Industries	Mr.Ashvin Bansode & Mr.Vyankatesh tarodkar, TCS Mumbai	12-Feb-15	Students	Third Year

33. Teaching methods adopted to improve student learning

- 1) Chalk & Talk
- 2) Power Point Presentation
- 3) Analogies
- 4) Technical Quizzes
- 5) Video Lectures

34. Participation in Institutional Social Responsibility (ISR) and Extension activities N.S.S. Regular Activities during 2015-16

The **National Service Scheme (NSS)** is an Indian government-sponsored public service program conducted by the Department of Youth Affairs and Sports of the Government of India. Popularly known as NSS, the scheme was launched in Gandhiji's Centenary year, 1969. Aimed at developing student's personality through community service, NSS is a voluntary association of young people in Colleges.

The programme aims to inculcate social welfare in students, and to provide service to society without bias. NSS volunteers work to ensure that everyone who is needy gets help to enhance their standard of living and lead a life of dignity. In doing so, volunteers learn from people in villages how to lead a good life despite a scarcity of resources. It also provides help in natural and man-made disasters by providing food, clothing and first aid to the disaster victims.

Sr. No.	Type of Work Undertaken	Venue/Place of Work	Beneficiary Details	Period/Duration of Work	Remark
1	Traffic Rule Awareness Program	PRMIT&R, Badnera	Students and Society	14/08/2015(One Day)	Program Completed Successfully
2	Tree plantation and cleaning program as a part of "Swachh Bharat Abhiyaan"	PRMIT&R, Badnera	Society and Environment	15/08/2015 (One Day)	Program Completed Successfully
3	Drawing sheet collection and donation program for blind students	Dr.Narendra Bhiwapurkar Blind School , Amravati	Students of blind School	04/09/2015(One Day)	Program Completed Successfully
4	Participation of volunteers in "Savbhavna Daud"	Badnera Old Town	Society	08/09/2015(One Day)	Program Completed Successfully
5	Notebook and study Material distribution Program	Residential school, Bahilolpur	Students of Schools	26/09/2015(One Day)	Program Completed Successfully
6	AIDS Awareness Program	PRMIT&R, Badnera	Society	01/10/2015(One Day)	Program Completed Successfully
7	Mega Blood Donation Camp	PRMIT&R, Badnera	Society	07/10/2015(One Day)	Program Completed Successfully
8	Participation of volunteers in "Yuva netrutva vikas shibir"	SGBAU, Amravati	Students and Society	11/01/2015 to 12/01/2015(Two Day)	Program Completed Successfully
9	Guest lecture of Dr.Kishor Phule on occasion of "Swami Vivekanad Janyanti"	SGBAU, Amravati	Students	12/01/2015(One Day)	Program Completed Successfully
10	Road safety awareness program by RTO,Amravati as a part of "Rasta Suraksha Abhiyaan"	PRMIT&R, Badnera	Students and Society	20/01/2016(One Day)	Program Completed Successfully
11	Participation of volunteers in "Sanwad Workshop"	SGBAU, Amravati	Students	22/01/2016(One Day)	Program Completed Successfully
12	Participation of volunteers in "Rasta Suraksha Abhiyaan Rally"	Irwin to Maltakdi, Amravati	Students and Society	22/01/2016(One Day)	Program Completed Successfully
13	Tress plantation,Ganjar Gavati Nirmulan and Cleaning Program	PRMIT&R, Badnera	Society and Environment	26/01/2016(One Day)	Program Completed Successfully
14	NSS Volunteers Committee for maintaining Discipline for "TECHNOEXPERTS & AASHAYEN-2016"	PRMIT&R, BADNERA	Students and PRMIT&RB adnera.	14,15,16& 17-02-2016(Four Days)	Program Completed Successfully
15	Participation of volunteers	Nehru Maidan to	Society	23/02/2016(One	Program

	in "Gadgebaba jayanti Rally"	Gadge Nagar, Amravati		Day)	Completed Successfully
16	Mega Blood Donation Camp	PRMIT&R, Badnera	Society	11/03/2016(One Day)	Program Completed Successfully
17	Guest lecture on "Water Conservation" by shree S.N.Jagtap (ret.DFO)	PRMIT&R, Badnera	Society and Environment	27/04/2014(One Day)	Program Completed Successfully

35. SWOC analysis of the department and Future plans

Strengths	Weaknesses
<ul style="list-style-type: none"> • Pioneer in computing in the region with PARAM Supercomputer, optical fiber networking and PG courses. • Twice NBA accreditation • Well Experienced Faculty • Highly Equipped Laboratories • Excellent Student placement • Collaboration with IIT Mumbai for E-Yantra lab. 	<ul style="list-style-type: none"> • Foreign Collaboration • Consultancy
Opportunities	Challenges
<ul style="list-style-type: none"> • Prospect in academic autonomy. • Technical Skill Enhancement Center 	<ul style="list-style-type: none"> • Inclusion of subjects with contemporary Knowledge. • Global acceptance of students in renowned Universities and Industries.

Evaluative Report of Information Technology Department

1. Name of the Department: - Information Technology
2. Year of Establishment: - 2000-2001
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Name of the Programs	Year of Establishment
B.E. Information Technology	2000-01
M.E. Information Technology	2009-10
M.E. Information Technology (Part-Time)	2012-13

4. Names of Interdisciplinary Courses and the Departments/units involved

Compulsory Subjects:-

Sr. No.	Name of Interdisciplinary Course	Semester	Departments
1	Environmental Science EVS	III&IV	Civil Engineering
2	Electronics Device and Circuit	III	Electronics & Telecommunication
3	Communication Engineering	IV	Electronics & Telecommunication
4	Digital Integrated Circuit	V	Electronics & Telecommunication
5	Principles Of Management	VI	Mechanical Engineering
6	Digital Signal Processing	VII	Electronics & Telecommunication
7	Digital & Wireless Communication	VIII	Electronics & Telecommunication

Free Elective:-

Students from Department of Information Technology				
S.N.	Branch	Subject Code	Free Elective-I	Options
5th Sem				
1	Civil Engineering	5FECE05	Elective - I	1. Introduction to Earthquake Engineering 2. Basics of Building Construction 3. Watershed Management
2	Mechanical Engg.	5FEME05	Elective-I	1. Manufacturing Techniques 2. Ergonomics 3. Production Management 4. Project Management
3	Computer Sci. & Engineering	5FEKS05	Elective - I	1. Data Structures & Algorithms 2. Data Communication & Networking
4	Computer Engineering	5FEKE05	Elective-I	1. Web Technologies 2. Object Oriented Programming
5	Elect. & Telecom. Engineering	5FEXT5	Elective-I	1. Consumer Electronics 2. Fiber Optics
6	Information Tech.*	5FEIT05	Elective-I	1. Introduction to Computer Networks 2. IT Ethics & Practices
6th Sem				
1	Civil Engineering	6FECE05	Elective - II	1. Disaster Management 2. Environmental Management
2	Mechanical Engg.	6FEME05	Elective-II	1. Automobile Engineering 2. Non-conventional Energy Systems 3. Energy Management
3	Computer Sci. & Engineering	6FEKS05	Elective-II	1. Database Management Systems 2. Software Project Management
4	Computer Engineering	6FEKE05	Elective-II	1. Java Programming 2. Expert Systems
5	Elect. & Telecom. Engineering	6FEXT5	Elective-II	1. Introduction To Wireless Technology 2. Electronic Test Instruments : Analog & Digital
6	Information Tech.*	6FEIT05	Elective-II	1. E-Commerce 2. Knowledge Management

- *Free elective Subjects offered other than information Technology Department

5. Annual/ Semester/choice based credit system (programme wise)

UG: Semester /choice based Credit Grade system :- Semester Grade Point Average (SGPA)

Theory			Practical		
Grade	Percentage of marks	Grade Points	Grade	Percentage of marks	Grade Points
AA	80≤Marks≤100	10	AA	85≤Marks≤100	10
AB	70≤Marks≤80	9	AB	80≤Marks≤85	9
BB	60≤Marks≤70	8	BB	75≤Marks≤80	8
BC	55≤Marks≤60	7	BC	70≤Marks≤75	7
CC	50≤Marks≤55	6	CC	65≤Marks≤70	6
CD	45≤Marks≤50	5	CD	60≤Marks≤65	5
DD	40≤Marks≤45	4	DD	50≤Marks≤60	4
FF	00≤Marks≤40	0	FF	00≤Marks≤50	0
ZZ	Absent	-	ZZ	Absent	-

6. Participation of the department in the courses offered by other departments;-Free Elective:-

S.N.	Branch	Subject Code	Free Elective-I(Sem-V)
1	Civil Engineering	5FECE05	3 subjects
2	Mechanical Engg.	5FEME05	4 subjects
3	Computer Sci. & Engineering	5FEKS05	2 subjects
4	Elect. & Telecom. Engineering	5FEXT5	2 subjects
S.N.	Branch	Subject Code	Free Elective-I (Sem-VI)
1	Civil Engineering	6FECE05	2 subjects
2	Mechanical Engg.	6FEME05	3 subjects
3	Computer Sci. & Engineering	6FEKS05	2 subjects
4	Elect. & Telecom. Engineering	6FEXT5	2 subjects

7. Courses in collaboration with other universities, industries, foreign institutions, etc. :-Nil**8. Details of courses/programmes discontinued (if any) with Reasons:- Nil****9. Number of Teaching posts: - 2015 – 2016**

Posts	Professors	Associate Professors	Asst. Professors
sanctioned	02	05	16
Filled	01	03	23

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt.

/Ph.D. / M. Phil./M.Tech/M.E. etc.,)

a) Faculty with D.Sc./D.Litt./Ph.D./M.Phil.:

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. V. M. Deshmukh	M.E.(CSE) Ph.D. (CSE)	Associate Professor	Operating System, TOC	19	Nil
Dr. S. R. Gupta	M.E.(CSE) Ph.D. (CSE)	Assistant Professor	Computer Architecture,	10	Nil

b) Faculty with M.Tech/M.E.

Sr. No.	Name of the Faculty	Qualification	Designation	Specialization	No. of Years of Experience	Remark
1	Prof. A. P. Bodkhe	B.E(EXTC), M.E(EXTC)	Professor	Real Time Embedded System, NAS	33	

2	Dr. V. M Deshmukh	M.E.(CSE) Ph.D. (CSE)	Associate Professor	Operating System, TOC	22	
3	Prof. S. V. Dhopte	B.E(EXTC), M.E(EXTC)	Associate Professor	Digital Signal Processing, Digital Communication	29	
4	Prof. S. S. Kulkarni	B.E(EXTC), M.E(EXTC)	Associate Professor	Digital Electronics, Microprocessors	26	
5	Dr. S. R. Gupta	M.E.(CSE) Ph.D. (CSE)	Assistant Professor	Computer Architecture, OS	13	
6	Prof. M. S. Deshmukh	B.E(IT) M.E(IT)	Assistant Professor	Real Time Embedded Systems, TOC	6	
7	Prof. P. P. Deshmukh	B.E.(CSE) M.E.(CSE)	Assistant Professor	Operating Systems, Theory of Computation	11	
8	Prof. P. V. Dudhe	B.E(IT) M.E(IT)	Assistant Professor	Operating Systems, Internet Technology	7	
9	Prof. Ms. N. V. Kadam	B.E(IT) M.E(IT)	Assistant Professor	Real Time Embedded Systems	5	
10	Prof. U. V. Nikam	B.E(IT) M.E(IT)	Assistant Professor	Operating Systems, P.M	7	
11	Prof. A.A. Gulhane	B.E(IT) M.E(IT)	Assistant Professor	Theory of Computation, RTES	4	
12	Prof. S. D. Thakur	B.E(IT) M.E(IT)	Assistant Professor	Networking, Linux, Unix	6	
13	Prof. A. W. Burange	B.E(IT) M.E(IT)	Assistant Professor	Networking, Linux, Unix	5	
14	Prof. S. P. Thakare	B.E(CSE) M.E(IT)	Assistant Professor	Network Security	6	
15	Prof. M. S. Shirbhate	B.E(CSE) M.E(IT)	Assistant Professor	Computer Network Programming	6	
16	Prof. H.D. Misalkar	B.E(IT) M.E(IT)	Assistant Professor	Networking, DBMS	3	
17	Prof. R. M. Hushangabade	B.E(IT) M.E(IT)	Assistant Professor	Networking	6	
18	Prof. N. M. Shivratrivar	B.E(CSE) M.E(IT)	Assistant Professor	DBMS, OS	10	
19	Prof. S. N. Sarda	B.E(IT) M.E(IT)	Assistant Professor	DBMS, Networking	8	
20	Prof. P. R. Nerkar	B.E(IT) M.E(IT)	Assistant Professor	DBMS, OS	7	
21	Prof. K. M. Tarwani	B.E(CSE) M.E(IT)	Assistant Professor	Artificial Intelligence	2	Left 2015
22	Prof. S. I. Saudagar	B.E(IT) M.E(CSE)	Assistant Professor	Computer Networks, OOT	3	
23	Mr. R. R. Papalkar	B.E(IT) M.E(IT)	Assistant Professor	Data Mining, Networking	8	

24	Prof. A. S. Mahalle	B.E(IT) M.E(IT)	Assistant Professor	Computer Network, OOT	4.5	
25	Prof. S. A. Chorey	B.E(IT) M.E(IT)	Assistant Professor	Web Technology, DBMS	4	
26	Prof. N. S. Wadhe	B.E(EXTC), M.E(EXTC)	Assistant Professor	Digital Electronics, Microprocessors	6	
27	Prof. R.N.Sawade	B.E(IT) M.E(IT)	Assistant Professor	Computer Networks, DBMS	1	Left 2016
28	Prof. P V.Mamankar	B.E(IT) M.E(IT)	Assistant Professor	Web Technology, Networking	1	
29	Prof. N.S.Band	B.E(CSE) M.E(IT)	Assistant Professor	Computer Networks, OOT	4	

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student -Teacher Ratio (Programme wise): 15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Posts	Sanctioned	Filled
06	06	06

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Degree	Ph.D.	PG
No. of Faculty	02	27

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:- Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:- Nil

18. Research Centre /facility recognized by the University :

Department approved for Ph.D Program/Research Center	Sanction Intake	Recognized by the University	Date	Letter No.
Research Lab	10	Sant Gadge Baba Amravati University	09/03/2012	SGBAU/PhD/47/2012

19. Publications:

Number of papers published in peer reviewed journals (national/international) by faculty and students

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs, Chapter in Books, Books Edited, Books with ISBN/ISSN numbers with details of publishers, Citation Index, SNIP, SJR, Impact factor, h-index, International Conferences: National Conferences: ,International Journals:, National Journals:

- Publication per faculty

2013-14					
Sr. No.	Faculty Name	ISSN Number	Impact Factor		Total
1	Dr. V.M.Deshmukh	ISSN: 2348-6090	1.1	International Journal (2)	2
		ISSN:2321-7782	ISRA:2.271		
2	Dr.A.S.Alvi	ISSN:0975-9646 ISSN(print): 2319-5940,	3.32 5.332	International Journal (2)	2
3	Pro.S.V.Dhopte	ISSN: 2319-507X.	2.275	International Journal (4) International Conference (1)	5
		ISSN (online): 2319-7064. ISSN:2277-3754 --	6.391 2.915 2.117		
4	Prof.S.S.Kulkarni	ISSN: 2319-507X.	4.226	International Journal(5)	5
		ISSN: 2249-0558 ISSN 2320088X ISSN 0975-9646 ISSN:2321-7782	0.564 5.258 3.765 ISRA:2.271		
5	Prof.S.S.Sikchi	ISSN2278-0181	1.76	International Journal(3)	3
		ISSN:2063-2065 ISSN:2278-621X.	- -		
6	Prof.N.V.Kadam			National Conference (1)	1
7	Prof.U.V.Nikam	ISSN: 2321-7782	ISRA:2.271	International Journal (1)	1
8	Prof. Ms. Namrata Sonsale	ISSN:2321-9637	2.865	International Journal (1)	1
9	Prof.Ms.P.B. Lohiya	ISSN: 2278-0181	-	International Journal (2)	2
		-	1.76		
10	Prof.P. M. Sune	E-ISSN: 2321-9637	2.865	International Journal (2)	2
		ISSN:2278-1323	3.696		
11	Prof. Abhishek Gulhane	ISSN: 2321-7782 (online)	ISRA:2.271	International Journal (1)	1
12	Prof.S.D.Thakur	ISSN:2278-621X.	0.685	International Journal (2)	2
		ISSN:0974-1011(Open access)	3.12		
13	Prof. Ms. M.S. Shirbhate	ISSN: 2249-0558,	0.564	International Journal (1)	1
14	Prof.D.H. Deshmukh	ISSN: 2321-7782 (online),	5. 47	International Journal (1)	1
15	Prof.V.S. Sarode,	ISSN: 2278-0181,	1.76	International Journal (1)	1
16	Prof.A.W.Burange	ISSN: 2321-7782 (online)	5. 47	International Journal (2)	2
		ISSN: 2321-7782 (online)	ISRA:2.271		

2014-15					
Sr.No.	Faculty Name	Paper Title	Impact Factor		Total
1	Dr. V.M. Deshmukh	ISSN: 2348-6090 ,E-ISSN:2321-9637. ISSN: 2348-6406, ISSN: 2348-6406 ISSN:2319-7242, ISSN: 2319-507X, ISSN 0974-2239	2.52,1.473 3.134,3.134 3.093,2.524 0.621, 0.687 3.599, 5.837	International Journal Publication (10) International Conference (2)	12

2	Dr.C.A. Dhote	17431-7773 Publisher IEEE, DOI: 10.1109/ICCUBE2015.84 Pages: 402-407	3.12 0.786 2.08	International Journal Publication (4) International Conference (1)	5
3	Prof. S. V. Dhopte	ISSN: 2319-7064,ISSN 2348- 4853 ISSN: 2319-507X, ISSN(online):2319-7064 ISSN: 2277 128X.	1.4,3.599 0.621 4.438 2.08	IJ (4) NC (1) IC(1)	6
4	Prof.S.S. Kulkarni	ISSN: 2321-7782, ISSN : 2319- 4847 ISSN 2321-3418,ISSN: 2277 128X.	2.08,5.663 2.58 ,2.08	IJ (3) NC (1)	4
5	Prof.S.R. Gupta	ISSN: 2321-5623 ISSN: 2349-7610 ISSN: 2278-1323 ISSN: 2348-4853 ISSN (Online): 2347-4718 ISSN (Online): 2347-4718 ISSN: 2320-088X	0.415, 2.793 IJAIFRC 22.86 1.46, 1.46 ISRAJIF: 3.193, SJIF: 5.258 & DRJI Value: 5.93).	International Journal Publication (7)	7
6	Prof. M.S. Deshmukh	ISSN:2348-4853 ISSN: 2319-4847 ISSN: 2320-088X 5.258 ISSN: 2277 128X	ISRA : 0.86, SJIP : 3.599 5.663 5.258,2.08	International Journal Publication (3) National Conference Journal: (1)	4
7	Prof. P.V. Dudhe	ISSN:2348-4853. 2015 ISSN: 2277 128X	ISRA : 0.86 SJIP : 3.599 2.08	International Journal Publication (1) NC (1)	2
8	Prof.N.V. Kadam	-	2.72	International Journal Publication (1)	1
9	Prof.U.V. Nikam	ISSN 22779655	3.25 3.4	International Journal Publication (2)	2
10	Prof.A. A. Gulhane	ISSN: 2321-7782 ISSN:2321-7782	4.739 5.47	International Journal Publication (2)	2
11	Prof.S.D. Thakur	ISSN:2321-7782 ISSN: 2321-7782	5.47 4.739	International Journal Publication (2)	2
12	Prof.S.P. Thakare	ISSN: 2394-3661	1.227		1
13	Prof. M.S. Shirbhate	. ISSN: 2321-7782 ISSN:2277-128X,ISSN: 2277 128X .	4.739 <u>2.5</u> ,2.08	IJ (2) NC (1)	3
14	Prof.A.W. Burange			Conference (1)	1
15	Prof. H.D. Misalkar	ISSN: 2277 128X	IC(IEEE Explorer) 2.275, 2.08	International Journal Publication (3) NC (1)	4
16	Prof. R. M. Hushangabade	ISSN:2321-7782 ISSN:2277-128X ISSN: 2277-128X	5.47 <u>2.5</u> 2.08	International Journal Publication (2) NC (1)	3

17	Prof. N. M. Shivratrivar		2.275 1.227	International Journal Publication (2)	2
18	Prof. S. N. Sarda		2.275	International Journal Publication (1)	1
19	Prof. P. R. Nerkar	ISSN:2277-9655	3.449	International Journal Publication (1)	1
20	Prof. S. I. Saudagar	ISSN: 2277 128X .	2.08	National Conference Journal (1)	1
21	Prof. R. R. Papalkar	ISSN:2277-9655	3.449	International Journal Publication (1)	1
22	Prof. A. S. Mahalle	ISSN:2321-7782 ,ISSN: 2319-507X ISSN: 2319-507X,ISSN: 2319-507X ISSN: 2319-507X,ISSN: 2319-507X	4.739,0.621 0.621,0.621 0.621,0.621 2.275,2.275 2.08,2.275	International Journal Publication (10)	10
23	Prof. K. M. Tarwani	ISSN: 2277 128X	2.08	National Conference Journal (1)	1

2015-16					
Sr.No.	Faculty Name	Paper Title	Impact Factor		Total
1	Dr. V. M. Deshmukh	ISSN 2229-5518,ISSN:2319-7242. ISSN ; 2320-9801, - ISSN : 2321-8169,ISSN:2320-9801 ISSN 2229-5518.,ISSN 2229-5518. - IEEE Computer Society DOI 10.1109/ICCUBEA.2015.83, pp 396-401	3.8,3.093 5.618,4.582 5.837,6.577 3.8,3.8 4.226, 3.47	International Journal Publication (9) International Conference (3)	12
2	Dr.C.A. Dhote			IC (2)	2
3	Prof.S.V. Dhopte		3.8 4.226	IJ(1) IC (1)	2
4	Prof. S. S. Kulkarni	ISSN:2278-1021	2.5 2.58	International Journal Publication (2)	2
5	Prof.S.R. Gupta	ISSN: 2321-8169 ISSN: 2278-1323	SJIF: 5.837 0.654	International Journal Publication (2)	2
6	Prof. M.S. Deshmukh	ISSN 2229-5518	3.8	NC (1) IC(2)	3
7	Prof. P.V.Dudhe		3.47 3.47	IC (2)	2
8	Prof.N.V. Kadam	ISSN 2229-5518 ISSS 2231-0711	2.5	NC (1) IJ (1)	2
9	Prof. P. P. Deshmukh	ISSN 2229-5518	3.2	International Journal Publication (1)	1
10	Prof.U.V. Nikam	ISBN:978-1-5090-2552-7	3.47	IC (1) IJ(1)	2
11	Prof. A.A. Gulhane	ISSN 2229-5518 ISSN: 2395-0072	3.8,4.45 3.47	NC (1) ,IJ (1) IC(1)	3
12	Prof.S.D. Thakur	ISSN 2229-5518	3.2	IJ (1) IC(1)	2
13	Prof.S.P. Thakare	ISSN: 2394-3661,ISSN 2229-5518 ISSN:2455-1457,ISSN 2229-5518	1.227,3.2 3.344,3.8	IJ (5) IC(1)	5

14	Prof. M. S. Shirbhate	ISSN 2229-5518	3.8	NC (1) IC (1)	2
15	Prof.A.W. Burange	ISBN:978-1-5090-2552-7 3rd IEEE Conference	3.47	IC (2) IJ (1)	3
16	Prof. H.D. Misalkar	ISBN:978-1-5090-2552-7 3rd IEEE conference	3.47	IC (2) IJ (2)	4
17	Prof. R. M. Hushangabade	ISSN 2229-5518	3.8	NC (1) IC (1)	2
18	Prof. N. M. Shivratrivar	ISSN: 2394-3661 ISSN 2229-5518 ISSN 2229-5518	1.227,3.8 3.8,3.344 3.47	International Journal Publication (4) IC (1)	5
19	Prof. S. N. Sarda	ISSN: 2394-3661 ISSN 2229-5518 ISSN:2229-5518	1.227 3.344 3.8,3.8	International Journal Publication (4)	4
20	Prof. P. R. Nerkar	ISSN 2229-5518	3.8, 3.47 3.47	IJ (1) IC(3)	4
21	Prof. S. I. Saudagar	ISSN 2229-5518	3.8 3.47	NC (1) IC(1)	2
22	Prof. R. R. Papalkar	ISSN: 2321-8169 ISSN 2229-5518	5.837,3.2 3.47,3.47 3.47	International Journal Publication (2) IC (3)	5
23	Prof. A. S. Mahalle	ISSN: 2347-1697 ISSN 2229-5518	5.081 3.8	International Journal Publication (2)	2
24	Prof.N.S. Band	ISSN 2229-5518	3.2,3.47 3.47,3.47	IJ (1),IC&IJ (3)	4
25	Prof. S. A.Chorey	ISSN 2229-5518 135	3.2	International Journal Publication (1)	1
26	Prof.R.S. Sawade	ISSN 2229-5518 135 ISSN 2348-8034	3.2,3.155 3.47,3.47	IJ (2) IC(2)	4
27	Prof. P. V. Mamankar	ISSN 2229-5518 135 ISSN 2348-8034	3.2,3.155 3.47	IJ(2) IC (1)	3
28	N. S. Wadhe	ISSN: 2395-0072	4.45	International Journal Publication(1)	1

S. No.	Name of Faculty	No. of Papers published in National Journals	No. of Papers published in International Journals	No. of Papers published in National & International Conferences
1.	Dr. Ms. V. M. Deshmukh	1	26	5
2.	Prof. A. P. Bodkhe	--	1	--
3.	Dr. C. A. Dhote	--	5	3
4.	Dr. A. S. Alvi	--	2	--
5.	Prof. S. V. Dhopte	1	9	4
6.	Prof. S. S. Kulkarni	1	10	1
7.	Dr. S. R. Gupta	--	9	--
8.	Prof. A. A. Gulhane	--	6	2
9.	Prof. Ms. M. S. Deshmukh	--	8	5
10.	Prof. Ms. P. P. Deshmukh	--	1	1
11.	Prof. Ms. P. V. Dudhe	--	4	2
12.	Prof. Ms. M. S. Shirbhate	--	4	1
13.	Prof. S. P. Thakare	--	6	1
14.	Prof. S. D. Thakur	--	6	1
15.	Prof. Ms. N. V. Kadam	--	3	2

16.	Prof. U. V. Nikam	--	4	2
17.	Prof. A. W. Burange	--	6	4
18.	Prof. H. D. Misalkar	--	6	4
19.	Prof. R. M. Hushangabade	--	5	3
20.	Prof. N. M Shivratriwar	--	8	1
21.	Prof. P. R. Nerkar	--	5	2
22.	Prof. R. R. Papalkar	--	6	2
23.	Prof. A. S. Mahalle	--	12	4
24.	Prof. S. N. Sarda	--	6	1
25.	Prof. S. I. Saudagar	--	2	3
26.	Prof. S. A. Chorey	--	1	1
27.	Prof. Ms. R. N. Sawade	--	4	1
28.	Prof. P. V. Mamankar	--	3	1
29.	Prof. N. S. Wadhe	--	1	1
	Total	3	159	54

20. Areas of consultancy and income generated: - Nil**21. Faculty as members in**

a) National committees b) International Committees c) Editorial Boards...

	Professional Body/ Society Registration No National Committee					
	ISTE	IETE	IEI	CSI	IAENG	ISRD
Total Number of Faculty as a Member	29	10	16	5	25	13

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programmer

Year	Percentage of Students who have done in-house projects	Percentage of students placed for projects outside the institution
Final Year	100%	Nil

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: **Nil****23. Awards / Recognitions received by faculty and students**

Sr. No.,	Name of Faculty	Awards
1	Prof. Ms V.M. Deshmukh	Best Paper in First International Conference on Computing, Communication, Control and Automation (ICCUBEA2015)

Sr. No.,	Name of Students	Awards
1	Mr.Pranay Borkar	Tech-know Docx (Paper Presentation)2014-15

24. List of eminent academicians and scientists / visitors to the department (2013-14, 2014-15, 2015-16, 2016-17)

Sr. No.	Title	Delivered by	Date
1	"Sustainable Computing and Communication for Development" 3 rd National Conference NCSC ² D	EMINENT SCIENTISTS Dr. Anil Kakodkar Ex- Director Bhaba Atomic Research Center Bombay .Chief Guest for National Conference Valedictory Function	13 th Feb 2016
2	Felicitation of eminent scientists	Dr. Dinesh Keskar, Vice- President, Asia, Boeing International. For Golden Jublie Year of Vidhabh youth welfare society Amravati	
3	Awareness on GATE 2015	Mr. Ashish Mithole	12-08-2014
4	Introduction to Web Technology	Mr. Yugandhar Tikhe, Thinkcode Technologies, Pvt. Ltd., Amravati	5-08-2014
5	SAP	Mr. Abhay Choudhary,	30/07/2014

		Business Development Manager	
6	Guidance on the selection of Project topic	Mr. Shrikant Pande, Ctronics Systems, Amravati	28/07/2014
7	Fundamentals of Android Operating Systems	Mr. Vicky Chavhan, Vertipride Solutions	22/02/2014
8	Importance of Aptitude skill in IT industry	Mr. Ashish Mithole	21/01/3014
9	Live Project Training	Ms. Muskaan Ratnani, IT tude	28/09/2013
10	Preparation for Placement in IT Companies	Mr. Ashish Mithole	03/10/2013-05/10/2013
11	Training program for Linux	Mr. Shrikant Pande, Seed InfoTech Amravati	13/09/2012
12	Cloud Computing	Ms. Ankita Nanwani, Amazon India Development Center Hyderabad	15-02-2012

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Sr. No.	Particular	Name of Event	Source of Funding	Date	Remark
1	1 st , National conference NCICTD12	Information and Communication Technology for Development	Registration Fees	29 th to 30 th March 2012	
2	2 nd , National conference NCAICN13	Advances in computing & Networking	Registration Fees	30 March 2013	
3	ISTE Workshop	Computer Programming under the national mission on education through ICT (MHRD, GOV. OF INDIA)	Registration Fees	11 th May to 15 th June 2014 and 21 st June 2014	
4	3 rd , National conference NCSC ² D16	Sustainable Computing and Communication for Development	IEI, Kolkata +IETE Amravati Center + PRMIT & R Badnera+ Registration Fees	12 th & 13 th Feb 2016	Dr. Anil Kakodkar was a chief Guest for the Conference
5	AICTE Workshop	Four Week AICTE approved FDP by IIT Bombay on – Use of ICT in Education for Online and Blended Learning	IIT Bombay	4 th May – 15 July 4 Weeks	
6	STTP	Application Software in Science & Engineering	IETE Amravati Local Center+ & Registration Fees	22 nd Dec – 31 st Dec 2014 2 Weeks	
7	STTP	Network Security	IETE Amravati Local Center+ & Registration Fees	15 th April – 26 th April 2016 2 Weeks	
8	STTP	Application of Open Source Software in Science & Technology- A New Paradigm	IETE Amravati Local Center+ & Registration Fees	29 th Oct – 8 th Nov 2012 2 Weeks	

b) International

Sr. No.	Particular	Name of Event	Source of Funding	Date
1	Satellite International Conference	International Conference on Science and Technology for Sustainable Development	Registration Fees	24 th – 26 th May 2016

26. Student profile programme/course wise:

Compulsory subjects

Name of the Course/programme (refer question no. 4)	Year 2015-16	Applications received	Selected	Enrolled	
				*M	*F
Information Technology	2 nd Year(IIIrd &IVth Sem	128	128	65	63
	3 rd Year(Vth &VIth Sem)	144	144	72	72
	4 th Year(VIIth & VIIIthSem)	115	115	53	62

Free Elective subjects to other program

Name of the Course/program (refer question no. 4)	Year 2015-16 Vth Sem	Applications received	Selected	Enrolled	
				*M	*F
Elect & Tele Engineering	FO	60	60	30	30
Computer Science and Engineering	DSA	52	52	27	25
Computer Science and Engineering	Data Comm.	25	25	12	13
Civil Engineering	BBC	04	04	01	03
Civil Engineering	Intro. Earth	03	03	02	01

Free Elective subjects to other program

Name of the Course/program (refer question no. 4)	Year 2015-16 VIth Sem	Applications received	Selected	Enrolled	
				*M	*F
Computer Science and Engineering	SPM	55	55	21	34
Elect & Tele Engineering	IWT	28	28	12	16
Computer Science and Engineering	DMS	55	55	35	20
Civil Engineering	Env. Engg	02	02	01	01
Mechanical Engineering	Auto Engg	04	04	03	01

27. Diversity of Students

Name of the Course	Year	%of Students from the same state	%of Students from the other state	%of Students from abroad
Information Technology	2015-2016	100%	Nil	Nil
	2014-2015	100%	Nil	Nil
	2013-2014	100%	Nil	Nil
	2012-2013	99%	1%	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Name of the Students	Competitive Exams
Ms. Shraddha Pore, Mr. Saumitra Natu, Mr. Abhishek Pachpor	GATE

29. Student progression

Student progression	Against % enrolled		
UG to PG	29		
Employed	Campus selection	Other than campus	Entrepreneurship/Self-
	79(21.88%)*	46(12.74%)*	10%

*Last four year student 117+86+85+73=361

Campus Selection: Students Placed

Year	No. of student	Against % enrolled
2012-13	4	4.12
2013-14	3	2.77
2014-15	23	24.46
2015-16	43	36.75

30. Details of Infrastructural facilities**a) Library****Library Advisory Committee:-**

Sr. No.	Name	Department Coordinator
01	Prof. S.S. Kulkarni,	Member

Library holdings	2015-16		2014-15		2013-14		2012-13	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books								
Information Tech	591	245117	49	21368	150	68053	799	297307

Library holdings	2015-16		2014-15		2013-14		2012-13	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Journals/Periodicals								
Information Tech	09	8752	12	9300	15	15300	14	22000
E-resources								
CSE,EXTC, I.T.	1-74	445607	161	395010	145	370500	175	303537

b) Internet facilities for Staff & Students

- Broad Band 30Mbps BSNL. Free Wifi facility is made available in the campus.
- Internet connectivity with optical cables available in the class rooms, Laboratories & Staff rooms.

c) Class rooms with ICT facility

Room Description	Usage	Shared/ Exclusive?	Capacity	Rooms Equipped with
Class Room ICR 01-ICR06	Final, Third & Second Year	Exclusive	75	LCD and OHP, PC

d) Laboratories

Technology Enabled Learning Spaces	No. /Qty.	Total Area (m ²)	Availability of the Specialized Facilities/ Equipment for teaching, learning & research
Labs	06	Lab-IT-I (Web Technology Lab) 66.36 Sq. Mtr	Compaq Desktop Intel Atom Processor 1.66GHz, 1GB RAM, 320GB Hard Disk, NPTEL, OPAC, Internet
		Lab-IT-II (Programming Methodology Lab) 66.36 Sq. Mtr	HP Dual Core, Intel Motherboard, 4GB RAM, 500 GB HDD, 18.5 LED Screen, Keyboard & Mouse Compaq Desktop Intel Atom Processor 1.66GHz, 1GB RAM, 320GB Hard Disk, Internet
		Lab-IT-III (Networking Lab) 66.36Sq. Mtr	Compaq Desktop Intel Atom Processor 1.66GHz, 1GB RAM, 320GB Hard Disk HP Desktop Intel Atom 1.8 GHz Processor 2GB RAM, 250 GB HDD, Dynalog 8086 Microprocessor Kits, Firebird IV Robotic Research Platform Microcontroller, ATMEL

		Lab-IT-IV (Open Source Lab) 47. Sq. Mtr	DELL Desktop core I3 processor, 4Gb RAM, 500GB SATA Harddisk, 18.5” Monitor, MM Keyboard, , Optical Mouse.
		Lab-IT-V (Programming Lab) 47 Sq. Mtr	DELL Desktop core I3 processor, 4Gb RAM, 500GB SATA Hard disk, 18.5” Monitor, MM Keyboard,, Optical Mouse.
		Lab-IT-VI (Electronics Lab) 68.84 Sq. Mtr	Trainer Kit, 30 MHz CRO, Function Generator, Component Development System
Seminar Hall (shared)	01		Projector & Screen, Sound System, 300 Chairs, Dias, Podium

31. Number of students receiving financial assistance from college, university, government or other agencies

Sr. No.	Academic Year	Category	No. of Students in the Department	
1	2015-16 1 st , 2 nd 3 rd & 4 th Year	SC	82	Govt. of Maharashtra
		OBC	232	as above
		SBC	13	as above
		VJ/NT	44	as above
		EBC	44	as above
		TFWS	24	as above

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

1.	Software Testing	Mr. P.P. Porohit Zensar-Pune	11 th July 2016
2.	Cyber Security	Nilesh Hemanani Eithical Hacking Trainer	21 st Aug 2015
3.	Intorduction to N/W Security	Dr. R.M.Tungnayay	07 March 2015
4.	Awareness GATE -15	Mr. Ashish Mithole	12 th Aug 2016
5.	Preparation of GATE Examination	Mr. Vinesh Agrawal, M. Tech.IIT KGP	8 th August 2014
6.	Opportunities for higher studies in Australia	Mrs. Shreya Singh Lubana, Representative of Southern Cross University, Australia	7-Aug-2014
7.	Workshop on self defence awareness program for women	Mrs. Kiran Mishra, Law officer to Superintendent of police ,Amravati	1 st August 2014
8.	ABC's of Success (Confidence building program)	Will Harris, International Entrepreneur, USA	22-Jul-2014
9.	Guest lecture on “ opportunities after SAP (System Application Product in data processing)	Mr. Shyam Patil, Mr. Abhay Chaudhary, Mr. Aakash Pathe and Mr. Dhruv Singh (Pranav Systech Pvt. Ltd., Pune)	7 th July 2014
10.	Campus recruitment training programme	Purple Leaf ltd. Mumbai	16 June 2014 to 28june 2014
11.	Road Safety Program	National Highway Police & Maruti Driving School, Amravati.	23-Jan-2014
12.	Employment Opportunities through BoAT.	Dr. P. N. Jumle, Director, Board of Apprenticeship and Training, Mumbai.	23-Jan-2014
13.	Orientation Programme for NBA (Part-I)	Prof.C.N.Deshmukh, Department EXTC, P.R.M.I.T & R, Badnera-Amravati.	24-Dec-2013
14.	Personality Enhancement Program	Dr.Sandip S. Bhanose	11-Oct-2013
15.	Current IT Trends	Mr. Jagdish Laddha, Business Development Officer, Tata Consultancy Services, North America.	13-July-2013
16.	Preparation for GRE.	Mr.Mohit Kedia	12-Jan-2013

17.	Small Safety Awareness Program.	Mr.Mohan Ande, Team Lead, Feedback Infrastructure Services.	07-Jan-2013
18.	Business Intelligence and Dataware Housing	Mr. Amol Palekar, Principal Consultant-Business Intelligence at Tek Link International Inc. USA.	04-Sep-2012
19.	Mobile Application Development.	Mr. Yugandhar Tikhe, Pune (thinkcode.in)	24-Mar-2012
20.	Data Structures and Algorithms.	Ms. Ankita Nanwani, Amazon India Development Centre, Hyderabad.	15-Feb-2012

33. Teaching methods adopted to improve student learning

- Effective chalk and talk teaching.
- Use of Power point presentation techniques with LCD Projector.
- Expert Seminar or Guest lecture on various topic.
- Tutorial session on subjects
- Video lectures of IIT under NPTEL for different subjects for understanding various concepts.
- Providing on-line study material to the students.
- Incorporated Teacher Guardian scheme to focus on each student & solve their problem individually regarding teaching learning process.
- Every Semester Two Test exams+ Improvement Test and Assignments.
- Every month attendance report generated and necessary action taken
- Overview of Syllabus by HOD after a month
- Lesson Plan and daily Execution plan
- Department semester calendar for various activity
- On line Feedback system
- We call the parents in critical issue. This helps to solve the problems related to teaching learning process.
- During Practical ACIPV format is adapted to analyze each student individually (A- Attendance, C- Competency, I-Innovation, P-Performance ,V-Viva)
- Additional Practical's Beyond Syllabi are conducted in the practical session.
- IIT spoken tutorial lectures
- Virtual Labs.
- Special lecturers on content beyond syllabi.
- Workshop on latest technology.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities Students from IT department actively participated in programs organized by NSS

35. SWOC analysis of the department and Future plans

i) Strength:-

- Hard working & Enthusiastic Faculty
- Good infrastructure

ii) Weaknesses:-

- As the domain has been developing fast, there is a need to offer more continuing education programs for faculty and students.
- Syllabus is not regularly updated.

iii) Opportunities:-

- to increase the Percentage of placements of students
- to give platform to student for higher education
- Scope for starting Research Center

iv) Challenges:

- To maintain the quality of students.
- To provide more employability opportunities to Students.
- Maintain Academic Quality.

Future Plan:

- i) To develop states of the art laboratories to train the student in the latest technologies.
- ii) To improve the teaching by computer aided, NET based methodologies.
- iii) To modernize the curriculum to suit the need of the industry & competitive examination
- iv) To establish research lab in the department.
- v) To submit proposals to funding agencies for Research & Modernization of Laboratories.

Evaluative Report of First Year Engineering Department

1. **Name of the department** : *Department of First Year Engineering*
2. **Year of Establishment** : *1983*
3. **Names of Programmes / Courses offered (UG, PG, M. Phil. Ph.D. Integrated Masters; Integrated Ph.D., etc.)** : *UG – Bachelor of Engineering*
4. **Names of Interdisciplinary courses and the departments/units involved** : *Nil*
5. **Annual/semester/choice based credit system (programme wise)** : *Semester Based Credit System*
6. **Participation of the department in the courses offered by other departments:**

Sr.No.	Subject Code	Subject
1	--	Engineering Mathematics-III (All UG Courses)
2	1MTE1	Advance Mathematics (M.E. Thermal Engg.)

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.** : *Nil*
8. **Details of courses / programmes discontinued (if any) with reasons** : *Nil*
9. **Number of Teaching posts** :

	Sanctioned	Filled
Professors	6	3
Associate Professors	12	9
Asst. Professors	28	34

10. **Faculty profile with name, qualification, designation, specialization (D.Sc. / D.Litt./ Ph.D. / M. Phil. etc.)**

S.N.	Name of Faculty	Qualification	Designation	Specialization	Teach. Exp.Yr	Students
1	Dr. S. P. Kulkarni	M.E., Ph.D, B.Sc.	H.O.D. Asso.Prof	Production	24	-
2	Dr. S. S. Sonare	M.Sc., Ph. D., M.Phil	Professor	Chemistry	30	-
3	Dr. P. D.Sawalakhe	M.Sc., Ph. D.	Professor	Chemistry	32	-
4	Dr. N. B. Ingale	M.Sc., Ph. D., B. Ed.	Professor	Physics	27	03
5	Dr. K. D. Umale	M.Sc. Ph.D.M.Phil,D.Pharm	Asso.Prof	Chemistry	29	-
6	Dr. R. S. Bobade	M.Sc., Ph.D., M.Phil	Asso.Prof	Physics	30	-
7	Dr. P. R.Deshmukh	M.Sc.,Ph. D., M.Phil, B. Ed.	Asso.Prof	Mathematics	30	-

8	Dr. R. D. Taywade	M.Sc., Ph.D., M.Phil	Asso.Prof	Mathematics	28	-
9	V. J. Deshpande	M.Sc.	Asso.Prof	Mathematics	35	-
10	M. S. Bhende	M.Sc., M.Phil	Asso.Prof	Physics	30	-
11	S. S. Deshmukh	M.Sc.	Asso.Prof	Physics	18	-
12	Dr. V. A. Naphade	M.Sc.Ph.D.M Phil, B.Ed	Asso.Prof	Zoology	16	-
13	D. G. More	M.Sc., M.Phil	Asst. Prof.	Mathematics	17	-
14	P. A. Chorey	M.E.	Asst. Prof.	Inf.Tech.	9	-
15	S. S. Dhok	M.E.	Asst. Prof.	Inf.Tech.	6	-
16	A. G. Kadu	M.E.	Asst. Prof.	Inf.Tech.	5	-
17	P. B. Murade	M.Sc., B.Ed.	Asst. Prof.	Mathematics	7	-
18	I. I. Khan	M.Sc., B.Ed	Asst. Prof.	Mathematics	8	-
19	S. R. Sawarkar	M.Sc., M.Phil	Asst. Prof.	Mathematics	7	-
20	A. M. Karale	M.Sc., B.Ed	Asst. Prof.	Mathematics	4	-
21	A. S. Panurkar	M.Sc.	Asst. Prof.	Mathematics	4	-
22	D. V. Rautkar	M.Sc.	Asst. Prof.	Mathematics	4	-
23	N. G. Taiwade	M.Sc.	Asst. Prof.	Mathematics	3.5	-
24	D. V. Kapse	M.Sc., M.Phil	Asst. Prof.	Mathematics	6	-
25	V. S. Deshmukh	M.Sc., M.Phil	Asst. Prof.	Mathematics	5	-
26	R. V. Deshmukh	M.Sc.	Asst. Prof.	Mathematics	3	-
27	Dr. Y. S. Manjare	M.Sc. Ph.D., CSIR-NET	Asst. Prof.	Chemistry	7	-
28	A. A. Jadhao	M.Sc.	Asst. Prof.	Chemistry	2	-
29	K. P. Nanote	M.E.	Asst. Prof.	Stru. Engg.	5	-
30	R. P. Bahale	M.E.	Asst. Prof.	Stru. Engg	5.5	-
31	M. S. Aainawala	M.E.	Asst. Prof.	Stru. Engg	4	-
32	R. S. Meshram	M.Tech	Asst. Prof.	Stru. Engg	2	-
33	C. T. Prajapati	M.Tech	Asst. Prof.	Stru. Engg	1.5	-
34	T. R. Wankhade	M.Tech	Asst. Prof.	Stru. Engg	2	-
35	D. N. Bhamkar	M.Sc., B.Ed	Asst. Prof.	Physics	6.5	-
36	R.S. Palaspagar	M.Sc.	Asst. Prof.	Physics	1	-
37	S. A. Gedam	M.E.	Asst. Prof.	CAD/CAM	5	-
38	A. A. Jiwarkar	M.Tech	Asst. Prof.	CAD/CAM	3.5	-
39	S. M. Paropate	M.E.	Asst. Prof.	CAD/CAM	4	-
40	S. S. Kongare	M.E.	Asst. Prof.	CAD/CAM	4.5	-
41	S.S. Chavan	M.E.	Asst. Prof.	CAD/CAM	2	-
42	R. A. Juware	M. Tech.	Asst. Prof.	Power system	3.5	-
43	Gazala Parveen	M.A.	Asst. Prof.	English	10	-
44	P.V. Gadve	M. A., M. Phil., MBA	Asst. Prof.	English	6	-
45	A. S. Bhopale	M.E.	Asst. Prof.	Digit. Elect.	7	-
46	A. A. Dhanbhar	M.Tech	Asst. Prof.	Elect. pow. sys	3	-

11. List of Senior Visiting Faculty : Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : Nil

13. Student-Teacher Ratio (programme wise) : UG: First Year Engineering -15.32

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Administrative staff	--
Support Staff (technical)	--
Sanctioned	09
Filled	09

- 15. Qualifications of teaching faculty with D.Sc /D.Litt/Ph.D/MPhil/PG.** : *Ph.D.: 10 M.Phil: 06 PG: 30*
- 16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received** : *Nil (in last three Years)*
- 17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received** : *Nil (in last three Years)*
- 18. Research Centre /facility recognized by the University** : *01, No. of recognized Ph.D. Supervisors:4*
- 19. Publications:**
- a) Publication per faculty : *Details of publications are attached in Annexure A of SSR*
 - b) Number of papers published in peer reviewed journals (national / international) by faculty and students : --
 - Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : --
 - Monographs : *01*
 - Chapter in Books : *Nil*
 - Books Edited : *Nil*
 - Books with ISBN/ISSN numbers with details of publishers : *Nil*

Sr. No.	Author(s)	Year	Title	Complete Reference of Book (Publisher, Edition, Page No.)
1	Prof. Ms. R. S. Meshram	2014	Seismic Behaviour and Design of Irregular and Complex Civil Structures-II	Springer International Publication, Polaand, Vol.40 ISSN: 1573-6059 ISBN: 978-3-319-14245

- Citation Index : *Nil*
- SNIP : *Nil*
- SJR : *Nil*
- Impact factor : *Nil*
- h-index : *Nil*

20. **Areas of consultancy and income generated** : *Nil*

21. **Faculty as members in**

- d) National committees : No
- e) International Committees : No
- f) Editorial Boards.... : No

Name of Faculty Members	National / Int. committees	Any other Committee / Board
Dr. Padmakar D. Sawalakhe	----	Member, Board of Studies in General Engineering, SGBAU Amravati.
Dr. S. P. Kulkarni	----	Member, Grievance redressal committee for 05 colleges, SGBAU Amravati.

22. **Students Projects**

- c) Percentage of students who have done in-house projects including inter departmental / programme : NA
- d) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies : NA

23. Awards / Recognitions received by faculty and students

No.	Name of faculty	Prize/Award received	Organization/Institute	Year
1.	Prof. S.P.Kulkarni	Blood Donation Award By Honorable Dr.APJ Kalam Sir	P.R.M.I.T.&R., BADNERA	2012

24. List of eminent academicians and scientists / visitors to the department:

Sr.No.	Eminent personality	Date of Visit	Subject
1	Mr. Kiran Gite (B.E.), Collector, Amravati district.	12/02/2016	Guided the students for IAS/IPS competitive examination
2	M. Ganesh Deshmukh, Editor Lokmat paper, Amravati district	11/03/2016	Guest of Honor Blood donation camp
3	Dr. V S Sapkal, I/C vice Chancellor, SGBAU, Amravati.	11/03/2016	Chief guest Blood donation camp
4	Dr. Avinash Lavhale, Dept. Director, Health Dept. Akola	11/03/2016	Guest of Honor Blood donation camp
5	Dr. Praful Kadu	26/09/2015	Health Conscious Program for staff and students
6	Dr. Anil Kakodkar	13/02/2016	Guided the students for the challenge in the technical field

25. Seminars/Conferences/Workshops organized & the source of funding:*c) National:*

Name of Conference/workshop/ Seminar	Source of Funding	Name of eminent researcher visited & Representing Org	Date & Duration	Number of participants
STTP in Engineering Physics	IIT Bombay & NMEICT	PRMIT&R	Dec 8-18 2015, 2 weeks	12

*d) International: Nil***26. Student profile programme/course wise:**

Name of the Course	Academic Year	Applications Received	Selected	Enrolled		Pass Percentage	
				Male	Female	winter	summer
Bachelor of Engineering (All Branches)	2015-2016	Admissions are carried out by DTE	705	493	212	57.99	63
	2014-2015		711	473	238	46.93	52.19
	2014-2013		742	475	267	60.41	54.37
	2013-2012		646	433	213	60.56	59.77

*M = Male *F = Female

27. Diversity of Students:

Year	No. of Student Admitted	% of Students of Maharashtra	% of Students of OMS
2012-13	729	98.21	1.78
2013-14	743	98.92	1.1
2014-15	684	99.41	0.6
2015-16	682	99.56	0.43

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : N/A

29. Student Progression : NA

30. Details of infrastructural facilities

a. Library : 01 Departmental Library

Year	No. of Books			
	2012-13	2013-14	2014-15	2015-16
Engg. Drawing	7	7	7	7
Engg. Mechanics	8	8	8	8
Chemistry	6	6	6	6
Elect. Engg.	7	7	7	7
Mathematics	7	7	7	7
Physics	10	10	10	10
Comp. Science	5	5	5	5

- b. Internet facilities for Staff & Students : • Wi-Fi and broadband Internet access is available for staff and students.
• A central computing facility with 40 PCs
- c. Class rooms with ICT facility : 14
- d. Laboratories : 06

31. Number of students receiving financial assistance from college, university, government or other agencies

Sr. No.	Year	Students Category										
		SC		OBC		VJNT		SBC		ST		EBC
		Scholar ship	Free ship	Scholar ship	Free ship	Scholarship	Freeship	Scholarship	Free ship	Scholar ship	Free ship	Open
1	2012-13	72	32	146	98	37	21	8	5	9	13	48
2	2013-14	75	30	173	83	29	18	4	6	9	10	31
3	2014-15	61	39	185	65	39	17	9	9	6	4	30
4	2015-16	66	45	212	59	47	12	14	7	4	9	29

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

- The Orientation Programme “Junoon” delivered by Mr. Satish Mandora, Square Circles, has been conducted by Department of First Year Engineering for FYBE students on 2nd Sept. to 12th Sept., 2015
- The Orientation programme “Secret of Strength and Effective Life Management” by Revd. Aryananda Ramakrishna Math, Pune, conducted during.

33. Teaching methods adopted to improve student learning**• Modes of delivery (MD) in theory courses:**

Lecture using Chalk & Board and audio-visual

• Modes of delivery in Lab courses:

Demo through Models and Audio/Video modes of delivery

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Students Participate in Blood donation camp
- Involved in Tree plantation activity.
- Participate in NSS camp
- Old age home visit and services
- Blind school visit and services

35. SWOC analysis of the department and Future plans**Strength:**

- Qualified and experienced (15 to 30 years) faculty members.
- Research Scholars : 03
- Excellent team work among faculty and students
- Students –Teachers guardian scheme
- Motivation of students for betterment of university results and placement activity

Weakness:

- Students prefer going to Pune or Mumbai for studies, therefore the input
- Comes from weaker students.
- Due to lack of autonomy, curriculum by university has to be adopted.

Challenges:

- To improve the communication skills of students coming from rural areas.
- Uplifting the level of students to face campus interviews

Evaluative Report of Department of Management Studies

1. **Name of the department** : *Department of Management Studies*
2. **Year of Establishment** : *2008*
3. **Names of Programmes / Courses offered (UG, PG, M. Phil. Ph.D. Integrated Masters; Integrated Ph.D., etc.)** : *PG: Master of Business Administration (Two Years Full-time)*
4. **Names of Interdisciplinary courses and the departments/units involved** : *Nil*
5. **Annual/semester/choice based credit system (programme wise)** : *Semester wise*
6. **Participation of the department in the courses offered by other departments** : *In developing the communication skills and personal interview technique in Engineering degree courses (Bachelor of Engineering)*
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.** : *Nil*
8. **Details of courses / programmes discontinued (if any) with reasons** : *Nil*
9. **Number of Teaching posts** :

	Sanctioned	Filled
Professors	2	0
Associate Professors	4	0
Asst. Professors	10	10

10. **Faculty profile with name, qualification, designation, specialization (D.Sc. / D.Litt./ Ph.D. / M. Phil. etc.)**

Name	Qualification	Designation	Specialization	No. of Years of Experience (Teaching)	No. of Ph.D. Students guided for the last 4 years
Prof.A.V. Deshmukh	B.E. (Mech) MBA, SAP	Assistant Professor	Marketing	12	Nil
Prof. S.R. Deshmukh	B.Sc., M.B.A	Assistant Professor	Marketing	06	Nil
Prof. S.G. Pethe	B.Pharm, M.B.A	Assistant Professor	Marketing	13	Nil
Prof. N.M..Gawande	B.B.A., M.B.A	Assistant Professor	Finance	06	Nil
Prof. Y.R. Vaidya	B.A., MBA	Assistant Professor	HRM	06	Nil
Prof.Ms. P.A. Kalmegh	B.Sc. M.B.A.	Assistant Professor	HRM	04	Nil

Prof. Mrs.T.A. Paralkar	B.Tech. (Cosmetics)., M.B.A	Assistant Professor	Finance	07	Nil
Prof. G.D. Pachghare	B.Pharm. M.B.A.	Assistant Professor	Finance	04	Nil
Prof. Ms.M.M. Nistane	B.Com , M.B.A	Assistant Professor	HRM	03	Nil
Prof. S.B. Diwan	B.E.(IT) , MBA	Assistant Professor	Marketing	01	Nil

11. **List of Senior Visiting Faculty** : 1. Mr. Ashish V. Khole, Sr.HR Manager,
TAIL , Nagpur
12. **Percentage of lectures delivered and : Nil**
practical classes handled (programme
wise) by temporary faculty
13. **Student-Teacher Ratio (programme : 15:1**
wise)
14. **Number of academic support staff (technical) and administrative staff; sanctioned**
and filled:

Administrative staff	01
Support Staff (technical)	--
Sanctioned	01
Filled	01

15. **Qualifications of teaching faculty with : PG: 11**
D.Sc /D.Litt/Ph.D/MPhil/PG.
16. **Number of faculty with ongoing : Nil**
projects from a) National
b) International funding agencies and
grants received
17. **Departmental projects funded by DST- : Nil**
FIST;UGC, DBT, ICSSR, etc. and total
grants received
18. **Research Centre /facility recognized by : Nil**
the University

19. Publications:

- a) Publication per faculty : *02 per year as per their experience*
- b) Number of papers published in peer reviewed journals (national / international) by faculty and students : *17*
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : *12*
- Monographs : *Nil*
- Chapter in Books : *Nil*
- Books Edited : *Nil*
- Books with ISBN/ISSN numbers with details of publishers : *Nil*
- Citation Index : *Nil*
- SNIP : *Nil*
- SJR : *Nil*
- Impact factor : *Nil*
- h-index : *Nil*

20. Areas of consultancy and income generated : *Nil*

21. Faculty as members in

- g) National committees : *No*
- h) International Committees : *No*
- i) Editorial Boards.... : *No*

22. Students Projects

- e) Percentage of students who have done in-house projects including inter departmental / programme : *100 % in particular batch*
- f) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies : *Average 30% students placed in an organization outside institute for particular batch*

23. Awards / Recognitions received by faculty and students**By Students:**

S. No.	Name of student	Academic Achievement*	Academic Year
01	Ms. Smita Nimkar	University Topper along with Two gold medal	2011-12
02	Ms. Hema A. Nanwani	University Topper along with Two gold medal	2014-15
03	Mr.Syed Suhaib Yasin Syed Hussain	University Topper along with Three gold medal	2015-16

24. List of eminent academicians and scientists / visitors to the department:

1. Mr. Kesari Patil , Owner of Kesari Tours and Travels Ltd., Mumbai
2. Mr. Sanjay Jadhao Jadhao Industries , Amravati
3. Mr. Sundernarayan Joshi , Regional Manager SBI General Insurance Ltd.

25. Seminars/Conferences/Workshops organized & the source of funding:*National: Nil**International: Nil***26. Student profile programme/course wise: Nil**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M = Male *F = Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
MBA-2016-17	100	NIL	NIL
MBA-2015-16	98.65	1.35	NIL
MBA-2014-15	100	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : *Nil*

29. Student Progression:

Student progression	Against % enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	03
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	28.00 %
• Other than campus recruitment	72.00 %
Entrepreneurship/Self-employment	-

30. Details of infrastructural facilities

- e) Library : 01 Departmental Library
 f) Internet facilities for Staff & Students : Yes
 g) Class rooms with ICT facility : 03
 h) Laboratories : NA

31. Number of students receiving financial assistance from college, university, government or other agencies

Academic Year	No. of Students
2015-16	49
2014-15	41
2013-14	50

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

- Students Induction Programme Named as “AAROHAN” is organized at the beginning of academic session for the MBA I year to develop their Communication skill & Confidence Building.
- Students Orientation Programme to develop Employability Skill is organized for the MBA II Year students at the Beginning of the academic session.

33. Teaching methods adopted to improve student learning

- Case Studies & Case Problems solving approach are adopted.
- Extempore
- Management Games
- Brain Storming Sessions.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Sr. No.	Type of Work Undertaken	Venue/Place of Work	Beneficiary Details	Remark
1.	Survey on underprivileged women & self help saving groups.	V.Y.W.S. Office Amravati & PRMIT&R Badnera	Women from selected SHG's from Nandgaon KhandeshwarTahsil of Amravati District	We have conducted workshop for these women , provided them training on "How to start & run business through self help group" & also organized exhibition of their products
2.	Visit to Orphanages	Tapovan Orphanage Amravati	Children from Tapovan Orphanage	Department of Management studies, PRMIT&R Badnera organized visit to Tapovan orphanage in 2012-13,2013-14. We have provided them educational material & books as per their requirement
3.	Visit to Residential school of underprivileged children	Bahilolpur, District- Amravati	Students from under-privileged category	Distributed needful material such as food, books, pens and hair clips for the girls & cricket balls to boys, toothpaste & toothbrush to all the gathered children.
4.	Municipal School	Municipal School Ramnagar, Amravati. Municipal School Bhajibajar Amravati. Municipal School Belpura Amravati.	Students from under-privileged category	Department of Management studies, PRMIT&R Badnera organized visit to Tapovan orphanage in 2010-11,2011-12. We have provided them educational material & books as per their requirement

35. SWOC analysis of the department and Future plans**STRENGTH:**

1. Rigorous Academic Programs
2. Dedicated Training & Placement Cell.
3. Experienced & Qualified Faculties.
4. Students centric Co-curricular & Extra-co-curricular events.

WEAKNESS:-

1. Weak in Industry-institute Interface.
2. No affiliation with Professional Bodies-e.g. Institute Students Chapters of AIMS, etc.
3. Aesthetic & Decorum of the Department need to be improved.
4. Unskilled Non-Teaching Staff

OPPORTUNITIES:-

1. To act as Consultancy Centre to provide Best Business Practices in the region.
2. Formation of Industry oriented Teaching-Learning centre
3. Joint ventures with Recognized Professional Bodies of National repute

CHALLENGES:-

1. To enhance Employability skill of the students to face global corporate challenges
2. To stop migration of students to metro cities by providing Best management Education in the region.
3. To explore Corporate Environment to make students aware about opportunities in their respective fields.
4. To explore Rural & Semi-urban region by creating awareness about Management Education.

FUTURE PLANS:

1. To Enhance Brand identity further of the Department in the Region
2. To organize National & International Conference based on current trends in Business Practices.
3. To host Biggest Students Management Festival in the Region.
4. To increase Higher education options.

Evaluative Report of MCA Department

1. Name of the department :- Master in Computer Application
2. Year of Establishment :- 2009
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :- MCA
4. Names of Interdisciplinary courses and the departments/units involved:- NIL
5. Annual/ semester/choice based credit system (programme wise):- Semester
6. Participation of the department in the courses offered by other departments-

Sr.No	Name	STTP
1	Dr.S.R.Gupta	2
2	Prof.Ajay P.Kinhikar	1
3	Prof.Devendra Bandbuche	2
4	Prof.Amit Pimprikar	1
5	Prof.Rupali Sherekar	1
6	Prof.Dushant Deshmukh	2
7	Prof.Nilima D.Bobade	NIL
8	Prof.Vinit Sinha	1
9	Prof.Preeti P. Deshmukh	2
10	Prof.Sachin.V.Joshi	Nil
11	Prof.Saurbh A.Ghogare	1
12	Prof.Snehalata D.Ulhe	2
13	Prof.Priyanka Monga	1

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Spoken tutorial launched by MHRD in association with IITB.

8. Details of courses/programmes discontinued (if any) with reasons:- NIL
9. Number of Teaching posts

	Sanctioned	Filled
Professors	1	0
Associate Professors	2	0
Asst. Professors	9	13

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Sr.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr.S.R.Gupta	B.E (CSE), M.E (CSE), PhD (CSE)	Head & Assistant Professor	Advanced Database Management system	11 years	NIL
2	Prof.Ajay P.Kinhikar	B.Sc,MCA	Assistant Professor	Computer Graphics,Artificial Intelligence	7 years	NIL
3	Prof.Devendra Bandbuche	MCA	Assistant Professor	Operating System, Cyber Security	6 Years	NIL
4	Prof.Amit Pimprikar	B.C.S,MCA	Assistant Professor	Database Management System, Net Framework	4 years	NIL
5	Prof.Rupali Sherekar	MCA,MSc(Phy)	Assistant Professor	Data Structures, Programming	13.2 yrs	Nil
6	Prof.Dushant Deshmukh	B.C.S, MCA	Assistant Professor	System Analysis & Design, Principles of Management, System Administration &	3 years	NIL
7	Prof.Nilima D.Bobade	B.C.S,MCA,B.Ed, NET, M.Sc Computer	Assistant Professor	Data Structure,Java Programming	7.5 years	Nil
8	Prof.Vinit Sinha	M.Phil. (C.S) , M.C.A , B.Sc. (CS) , B.Ed	Assistant Professor	Computer Network , Operating System , Linux Network Security	07 years	Nil
9	Prof.Preeti P. Deshmukh	BCA, MCA	Assistant Professor	Java Programming, Data warehousing & Data Mining, Computer Networks	9.5 years	Nil
10	Prof.Sachin.V. Joshi	B.Sc., MCA., PGDCS	Assistant Professor	Software Engg.	8 years	NIL
11	Prof.Saurbh A.Ghogare	BCA,MCA	Assistant Professor	Computer Organization	2 years	NIL
12	Prof.Snehalata D.Ulhe	B.Sc.MCA, OCPJP Cerified	Assistant Professor	Java Programming, System Security	4 year	Nil
13	Prof.Priyanka Monga	BCA,MCA	Assistant Professor	C++ Programming,.Net Framework	3 years	NIL

11. List of senior visiting faculty - NIL

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty- NIL

13. Student -Teacher Ratio (programme wise) 15 : 1
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :- Sanctioned:- 3 Filled:-3
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.s
No of faculty with Ph.D = 1
No. of faculty with M.Phil= 1
No. of faculty with PG= 13
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received- NIL
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received- NIL
18. Research Centre/facility recognized by the University- NIL
19. Publications:
 - a) Publication per faculty
 - * Number of papers published in peer reviewed journals (national / international) by faculty and students
 - * Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
 - * Monographs
 - * Chapter in Books
 - * Books Edited
 - * Books with ISBN/ISSN numbers with details of publishers
 - * Citation Index
 - * SNIP
 - * SJR
 - * Impact factor *h-index

S. No.	Name of Faculty	No. of Papers published in National Journals	No. of Papers published in International Journals	No. of Papers published in National & International Conferences	No. of Papers published listed in International Database, like Web of Science, Scopus, EBSCO host, Google Scholar, etc.	Specify out of following, if applicable : 1. Monographs 2. Chapter in Books 3. Books Edited 4. Book Published, (ISBN/ISSN, Pub.) 5. Citation Index 6. SNIP 7. SJR 8. Impact Factor 9. h-index
1	Dr.S.R.Gupta	-	9	-	--	--
2	Prof.A.P. Kinhikar	1	1	1	--	--
3	Prof.D.R.Bandabuche	--	1	4	--	--
4	Prof.A.J.Pimrikar	--	1		--	--
5	Prof.R.R.Sherekar	--	3	3	--	--
6	Prof.D.S.Deshmukh	--	--	--	--	--
7	Prof.N.D.Bobade	----	1	--	--	--
8	Prof.V.A.Sinha	--	6	4	--	--
9	Prof.P.P.Deshmukh	----	3	3	--	--
10	Prof.S.V.Joshi	--	1	2	--	--
11	Prof.S.A.Ghogare	--	3	2	--	--
12	Prof.S.D.Ulhe	--	3	4	--	--
13	Prof.P.M.Monga	--	3	1	--	--

S. No.	Name of Student	No. of Papers published in National Journals	No. of Papers published in International Journals	No. of Papers published in National & International Conferences	No. of Papers published listed in International Database, like Web of Science, Scopus, EBSCO host, Google Scholar, etc.	Specify out of following, if applicable : 1. Monographs 2. Chapter in Books 3. Books Edited 4. Book Published, (ISBN/ISSN, Pub.) 5. Citation Index 6. SNIP 7. SJR 8. Impact Factor 9. h-index
1	Mr.Prasad S. Deshpande			1		1

20. Areas of consultancy and income generated :- NIL

21. Faculty as members in a) National committees:- 8

b) International Committees:- 7

c) Editorial Boards-NIL

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme:- NIL

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :- 100%

23.Awards / Recognitions received by faculty and students

Awards / Recognitions received by faculty

Award	Year	Faculty
* Phd Award	* 2013	*Dr. S.R. Gupta
* 2nd UT ,SGBAU ,Amt	* 2013	* Prof. Ms.P.M.Monga
* NET	* Jun 2012	* Prof. Ms. N.D.Bobade
* 4th UT ,SGBAU ,Amt	* 2007	* Prof. Ms. N.D.Bobade
* 3rd UT ,SGBAU ,Amt	* 2004	* Prof. Ms. N.D.Bobade

Awards / Recognitions received by Students

S.No.	Name of Student	University Rank	Year
1	Miss. Shital Bonde	5 th Merit	Summer-2013-MCA-SGBAU Exam
2	Miss Tanvi Suresh Agrawal	3 rd Merit	Summer-2014-MCA-SGBAU Exam
3	Miss Supriya Vijayrao Tayade	5 th Merit	Summer-2014-MCA-SGBAU Exam
4	Mr. Suraj S. Karaskar	6 th Merit	Summer-2015-MCA-SGBAU Exam

24. List of eminent academicians and scientists / visitors to the department :-

S.N	Date	Name of Visitor	Organization
1	22/08/2014	Mr. Pramod Gurjar	Techrenait Solutions Pvt Ltd, Pune
2	14/10/2014	Sushil Pudke	Softech Solutions, Nagpur
3	14/11/2014	Mr. Swapnil Deshmukh	Encryption Tech , Pune
4	29/12/2014	Mr.Nakul Deshmukh	iBase Technologies,Nagpur
5	20-Aug-15	Mr.Nilesh Hemnani	Ethical Hacker
6	10-Sep-15	Mr.Prafulla Manekar	Soham Consultants Pvt.Ltd

25. Seminars/ Conferences/Workshops organized & the source of funding
Workshops

1) No. of IITB Workshops in session 2014-2015 := 2

2) No. of IITB Workshops in session 2015-2016 := 5
Source of funding : FREE

Conferences

1) National Conference on information and Communication Technology
for development NICTD 29th & 30th March 2012.
source of funding: Registration Fees.2) 3rd National Conference on Sustainable Computing and Communication
for development 12th & 13th February 2016.source of funding:1) IEI Kolkata
2) IETE New Delhi
3) Registration Fees

b) International : Nil

26. Student profile programme/course wise : (Not Applicable) NIL

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M = Male *F = Female

27. Diversity of Students.

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
MCA I	100	0	0
MCA II	100	0	0
MCA III	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? - NIL

29. Student progression

Student progression	2012	2013	2014	2015	2016
UG to PG	-----	-----	-----	-----	-----
PG to M.Phil.	NIL	NIL	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL	NIL	NIL
Employed- Campus selection	1.66%	00	00	3.33%	16 %
- Other than campus recruitment	29.16%	40%	22.41%	27.77%	Awaited

30. Details of Infrastructural facilities

a) Library-

1 Main Library having Textbook :- 510

Reference Books :- 57

b) Internet facilities for Staff & Students := Total 80 Mbps leased lines available

c) Class rooms with ICT facility

- 2 classrooms having LCD Projector, OHP, Computer Systems, Wi-Fi Internet facility with seating capacity of 60 .
- 1 Seminar hall seating capacity is of 120 audiences, equipped with LCD Projector, Computer Systems, Wi-Fi Internet facility, Digital Audio-Video systems (Mic and Sound System). Classrooms and premises are under CCTV Camera Surveillance.

d) Laboratories :- 3

Lab Name	Lab Description
1. Programming Lab	<p>Facilities: Lenovo - 20 PC Sony VPL DX120 Projector & Screen, NETGEAR Switch 24-Port, Dot-matrix-Printer Epson-LX300 Specification of PC: Intel ATOM 1.8 GHz, 1GB RAM, 320GB HDD, AR928w Wireless Network Adapter, DVD R/W</p>
2. Computer Application Lab	<p>Facilities: HP Dream Screen - 20 PC's NETGEAR Switch 24-Port, HP-LaserJet-P1007 Printer Specification of PC: HP Dream Screen, Intel ATOM 1.8 GHz, 2GB RAM, 250GB HDD, Mini Wireless Adapter, DVD R/W</p>
3. Computer Lab	<p>Facilities: DELL [OPTIPLEX] 3010DT 3rd Gen Processor - 20 PC's, Samsung ML-1640 Laserjet Printer, NETGEAR Switch 24-Port. Specifications of PC: Intel core i3 3.3 GHz, 4GB RAM, 250GB HDD, with inbuilt HD Graphics 18.5" LED TFT Monitor</p>

Features:

- Broad band Internet Facility 24 x 7, Wi-Fi Campus.
 - Laboratory is having digital system with LCD projector Facility.
 - Central Library E-Library facility.
 - (1) Open Public Access Control (OPAC) (2) National Program on Technology Enhance Learning (NPTEL)
 - (2)
31. Number of students receiving financial assistance from college, university, government or other agencies :- 57
 32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts
 - 1) No. of guest lectures in session 2014-15 :=7
 - 2) No. of guest lectures in session 2015-16 :=10
 33. Teaching methods adopted to improve student learning
 - 1) Use of Powerpoint Presentation & Video Clips.
 - 2) Lecture Method with Practical model demonstration
 - 3) Assignment for practice.
 34. Participation in Institutional Social Responsibility (ISR) and Extension activities
 - Participated in Blood Donation Camp, Tree Plantation Programme.
 - Conducted workshop on C & C++ spoken tutorial project by MHRD in association with IIT Bombay at G.S College Khamgaon, Shankarlal Khandelwal College, Akola.
 - Delivered guest lectures on “Carrier Opportunities in the IT Industries” in the various colleges of Amravati district , Akola and Khamgaon
 35. SWOC analysis of the department and Future plans

Strength of Department

- Highly qualified and experienced knowledgeable and cooperative faculty, great collaboration and good communication among faculty.
- Well equipped lab with all facilities.
- Organization of guest Lectures and workshops on a regular basis to keep the students abreast of current technologies.
- Regular Placement activity for students from renowned companies.
- Industry institute interaction.
- Emphasis on the overall soft skill development of students through intra and extra curricular activities.
- Location of institute in a serene atmosphere ideally suited for continuous learning.

Weaknesses of Department

- Location : The department is a bit away from the city.
- The input that the department gets is varied (any graduate is eligible for the course).
- Non proximity to software industry.

- Inactive in research funding. No national/state level grant proposals
- Need to match curriculum to industry standards.

Opportunities

- Opportunities to get research grants from industry.
- Develop collaborative projects
- Inculcate a conducive environment orientated towards research

Challenges:

- Providing 100% placement
- Input from varied backgrounds(BSc/BCA/Bcom/BA)
- Ever changing admission process.

Future Plans

- Establishment of FOSS Center in collaboration with the Spoken Tutorial Project of MHRD
- Creation of a computer club with complete student involvement so as to promote participation of students in various online technical competitions (mapped to industry requirements).

Declaration by the Head of the Institution

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the institution

with seal:

Place : BADNERA-AMRAVATI

Date : 17/12/2016