

**SELF STUDY REPORT (SSR)
FOR
ACCREDITATION BY NAAC, BANGALORE**

SUBMITTED TO



**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
(NAAC) BANGALORE**



**PADMASHRI DR. VITHALRAO VIKHE PATIL COLLEGE OF
ENGINEERING, VADGAON GUPTA,(VILAD GHAT), P.O.
MIDC,AHMEDNAGAR – 414111, MAHARASHTRA, INDIA**

2014-2015

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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: Ahmednagar

Date: 13/07/2015

Executive Summary – SWOC Analysis

Executive Summary:

Padmashri Dr. Vithalrao Vikhe Patil- a visionary philanthropist pioneered the cooperative movement in India by establishing the first cooperative sugar factory in Asia, and made untiring efforts for the upliftment of rural masses and initiated various social and educational movements. To realize the visionary thoughts of Padmashri Dr. Vithalrao Vikhe Patil, his worthy son, Hon'ble Padmabhushan Dr. Balasaheb Vikhe patil, established Padmashree Dr. Vithalrao Vikhe Patil Foundation in the year 1982 with soul aim to provide to rural masses. Now under the dynamic leadership of Hon'ble Radhakrishna Vikhe Patil & Hon'ble Dr. Sujay Vikhe Patil the foundation is dedicated to provide quality education in the field of Medical, Engineering, Management, Pharmacy, Nursing, Physiotherapy, Agriculture, ITI and basic Schooling.

Padmashri Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar (PDVVPCOE) established in 1983 and approved by AICTE, New Delhi and affiliated to Savitribai Phule Pune University, Pune. Currently Institution is offering six UG courses and two PG courses out of which Four UG courses has been accredited by National Board of Accreditation (NBA), New Delhi. The college has a picturesque campus spread over 25 acres. The college has excellent infrastructure, well equipped laboratories, a spacious central library with other amenities. The college has a team of well qualified and experienced faculty to impart the knowledge to groom the students into technocrats.

PDVVPCOE is committed to offer excellent engineering education to develop the graduates with domain knowledge, requisite skills and right attitude. The program educational objectives aim to create engineering graduates capable of addressing issues related with the respective programmes, both in the local and global context, and of providing optimal engineering solutions with concern to economics, environment and ethics.

VISION

It is aimed to provide the finest environment for teaching, learning, research, innovation and character building so as to mould youth of today into world-class technocrats of tomorrow who would endeavour to increase the quality of life for mankind.

MISSION

Padmashri Dr. Vithalrao Vikhe Patil College of Engineering is committed to impart excellent technical education to the students to create techno excellent citizens, who will keep abreast with the changing technology and will be retaining rich cultural identity to the full satisfaction of our stake holder and society at large with further commitments to serve the nation.

OBJECTIVES

- To impart excellent technical education to young budding engineers to create technocrats and researchers to serve the nation.
- To create ethic based professional to give service to society and nation.
- To provide outcome based education through effective teaching learning process.
- To make an institute of excellence through good governance and value based technical education.
- To encourage students to participate in co-curricular and extra-curricular activities.
- To encourage students and faculty for research based projects and IPR registrations.
- To encourage students and faculty for higher education, research and publications.
- To focus on English communication, skill training, general knowledge and placing the students in reputed organizations.

Courses offered: Under Graduate

Sr. No.	Course	Year of Starting	Sanctioned Intake
1	Mechanical Engineering	1986	120
2	Mechanical Engineering –Direct Second Year Separate Division	2012	60
3	Civil Engineering	1983	60
4	Civil Engineering- Direct Second Year Separate Division	2011	60
5	Electronics & Telecommunication	1983	120
6	Electrical Engineering	1999	60
7	Information Technology	2001	60
8	Instrumentation & control Engineering	1996	60

Programmes Offered: Post Graduate

Sr. No.	Programme Offered	Year of Starting	Sanctioned Intake
1	Mechanical- Design Engineering	2012	24
2	Civil -Structural Engineering	2007	24

SWOC Analysis:**Strength**

- State of art laboratory and infrastructure facilities.
- Highly qualified, experienced and dedicated faculty members.
- Outcome based teaching and learning process with continuous evaluation of students.
- Spacious and well stacked central library with good number of national and international journals.

Weakness

1. Less number of placements.
2. Lack of academic autonomy especially in the curriculum development.
3. Research and Consultancy work to be improved.
4. Communication skills among students need to be improved.
5. Lack of skill development programmes.

Opportunities

- Scope for strengthening the industry institute interaction for better placements of students.
- Scope for preparing students for GATE and other competitive examinations.
- To develop R&D activities by interacting with premier Industries and reputed higher performing Institutions.
- Networking with other Institutions for sharing/acquiring knowledge in advanced technologies.

Challenges

- Attract quality students.
- 100 % student placement.
- To develop students into successful entrepreneurs for the economic development of the country.
- To forge strong alliances with national and international organizations for academic and R&D activities in thrust areas of Engineering and Technology.
- Developing need based skill development and training programmes.

SECTION B: PREPARATION OF SELF-STUDY REPORT**1. Profile of the Affiliated / Constituent College****Name and Address of the College:**

Name :	Padmashri Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar	
Address :	Vadgaon Gupta (Vilad Ghat), P.O : M.I.D.C. Ahmednagar.	
City : Ahmednagar	Pin : 414 111	State : Maharashtra
Email	prin_coea@yahoo.com	
Website :	http://www.enggnagar.com	

For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. H.N. Kudal	O: 0241-2777296 0241-2779496 R: 0241-2779617	8554990210 8087561281	0241-2777533	hnkudal@gmail.com
Vice Principal	Dr. K. B. Kale	O: 0241-2777296 0241-2779496	9975320658	0241-2777533	kishorkale.iisc@gmail.com
Steering Committee Coordinator	Dr. J. C. Burse	O: 0241-2777296 0241-2779496	8007459333 9822037283	0241-2777533	dr_burse@yahoo.com

3. Status of the Institution:

Affiliated College

4. Type of Institution:**a. By Gender**

Co-education

b. By shift

Regular

5. It is recognized minority Institution

Yes

No

6. Sources of Funding

Self -Financing

7. a. Date of Establishment of the college: 29/08/1983

b. University to which the college is affiliated : Savitribai Phule Pune University, Pune

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i . 2 (f)	28/10/2010	Enclosed Annexure- 1

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ clause	Recognition/Approval details Institution/Department Programme			Day, Month and Year (dd-mm- yyyy)	Validity	Remarks
	Shift	Level	Course			
AICTE Regulation 2012	First	UG	Civil Engineering	07-04-2015	One Year	F. No. Western/1- 2452207438/ 2015/EOA/ Enclosed Annexure -2
	First	UG	Mechanical Engineering			
	First	UG	Electrical Engineering			
	First	UG	Electronics &Tele- communication Engineering			
	First	UG	Information Technology			
	First	UG	Instrumentation & Control Engineering.			
	First	PG	Structural Engineering.			
	First	PG	Design Engineering.			

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: NA (dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes

No

If yes, Name of the agency: National Board of Accreditation (NBA), New Delhi

Date of recognition: 21/09/2012 (dd/mm/yyyy)

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

Location *	Rural
Campus area in sq. mts.	101171.8
Built up area in sq. mts.	38660.54

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

Sr. No.	Name of Item	No.	Area (Sq. M)	Facility
1	Seminar Halls	06	909	PA System, LCD Projector

Sports facilities**Play ground**

Sr. No.	Name of Sport	Area (Sq. M)	Facility
Indoor Games			
1.	Chess & Carom	40	6 Chess set 6 Carom sets
2.	Badminton court	640	3 Cement courts
3	Table tennis	640	3 TT table
Outdoor games			
4	Basket ball court and hand ball ground	8000	One basket ball concrete cement court
5	Cricket ground	9200	Sufficient number of cricket kits available
6	Football and Volley ball ground	12000	Sufficient number of kits available

Swimming pool: Not Available (Proposed)**Gymnasium:** Available

Hostel**Boys' hostel**

- i.Number of hostels : 02
- ii. Number of inmates : 396
- iii.Facilities (mention available facilities)

Girls' hostel

- i.Number of hostels :01
- ii Number of inmates : 327
- iii.Facilities (mention available facilities)

Working women's hostel

- i.Number of inmates : Nil
- ii.Facilities (mention available facilities)

Residential facilities for teaching and non-teaching staff ✓

- Cafeteria \ Canteen** ✓
- Health centre** ✓
- First aid ✓
- Inpatient ✓
- Outpatient ✓
- Emergency care facility ✓
- Ambulance ✓

Medical College Hospital is located within the campus and own by same trust.

All these facilities exists in medical hospital.

Health centre staff –

Qualified Doctor	Full Time	✓	Part Time	✓
Qualified Nurse	Full Time	✓	Part Time	✓

Facilities like banking, post office, book shops

- banking,** ✓
- post office**
- book shops** ✓

Transport facilities to cater to the needs of students and staff ✓**Animal house**

Biological waste disposal ✓

Generator or other facility for management/regulation of electricity and voltage ✓

Solid waste management facility ✓

Details

Sr. No.	Name of Course	Sanctioned Year	Sanctioned Intake	Variation in intake
01	UG 2 nd Yr Direct Civil Engineering	2011-12	60	Nil
02	PG Mechanical (Design Engineering)	2011-12	24	Nil
03	UG 2 nd Yr Direct Mechanical Engineering	2012-13	60	Nil
04	Post Graduate Civil (Structural Engineering)	2012-13	--	15 to 24

15. List the departments

Faculty	Departments	UG	PG	Research
Engineering	Civil Engineering	√		
	Mechanical Engineering	√		
	Electronics and Telecommunication Engineering	√		
	Electrical Engineering	√		
	Instrumentation & control Engineering	√		
	Information Technology	√		
	UG 2 nd Yr Direct Civil Engineering	√		
	UG 2 nd Yr Direct Mechanical Engineering	√		
	Civil (Structural Engineering)		√	
	Mechanical (Design Engineering)		√	

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

NIL

18. Does the college offer UG and /or PG Programmes in teacher education:

Yes		No	√
-----	--	----	---

19. Does the college offer UG and /or PG Programmes in Physical education:

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		
Sanctioned by the University	18	34	101	--	--
Yet to recruit	14	19	00	--	--
Sanctioned by the management	--	--	--	80	39
Yet to recruit	--	--	--	00	00

21. Qualification of teaching staff:

Highest Qualification	Professor		Associate professor		Assistant professor		Total
	M	F	M	F	M	F	
Permanent teacher							
Ph. D.	03	--	--	--	02	--	05
M.E./MPhil	01	--	07	04	28	11	51
B.E.	--	--	--	--	05	02	07
Temporary teacher							
Ph. D.	--	--	--	--	--	--	--
M.E./ M.Phil	--	--	--	--	11	10	21
B.E.					23	13	36
Part-time teachers							
Ph. D.	--	--	--	--	--	--	--
M.E.	--	--	--	--	--	--	--
B.E.	--	--	--	--	--	--	--

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

0

23. Furnish the number of students admitted to the college during last four academic years

Categories	2011-12		2012-13		2013-14		2014-15	
	M	F	M	F	M	F	M	F
SC	125	35	121	26	145	52	162	42
ST	19	6	21	4	32	9	21	4
OBC	399	136	421	163	483	190	507	188
NT	137	30	182	44	213	62	198	73
SBC	28	6	26	22	29	30	42	40
General	847	253	862	242	828	283	723	239
Others	00	00	00	00	00	00	62	22
Total	1555	466	1633	501	1730	626	1715	608

24. Details of students enrollment in the college during current academic year:

Type of students	UG	PG	M.Phil	Ph.D.	Total
Students from the same state where the college is located	2238	85	00	00	2323
Students from the other states of India	00	00	00	00	00
NRI Students	00	00	00	00	00
Foreign Students	00	00	00	00	00
Total	2238	85	00	00	2323

25. Dropout rate in UG & PG

UG

2.85%

PG

0%

26. Unit Cost of Education

(a) Including the salary component

Rs. 61412

(b) Excluding the salary component

Rs. 21294

27. Does the college offer any programme/s in distance education mode(DEP)?

Yes

No

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

Sr. No.	Name of the Department	Teacher Student ratio
1.	Civil Engineering	1:18.95
2.	Mechanical Engineering	1:17.42
3	Electronics and Tele-communication	1:17
4	Electrical Engineering	1:18
5	Instrumentation & Control Engineering	1:15
6	Information Technology	1:16
7	PG-Civil (Structural Engineering)	1:16
8	PG-Mechanical (Design Engineering)	1:12

29. Is the college applying forAccreditation: **Cycle 1** Cycle 2 Cycle 3 Cycle 4 **30. Date of Accreditation: Not Applicable****31. Number of working days during last academic year****32. Number of teaching days during last academic year**

(Teaching days means days on which lectures were engaged excluding examinations days)

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

IQAC	26/12/2011
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34. Details regarding submission of Annual Quality Assurance Report (AQAR) to NAAC

AQAR (i)	Not Applicable
AQAR (ii)	Not Applicable
AQAR (iii)	Not Applicable
AQAR (iv)	Not Applicable

35. Any other relevant data (Not covered above) the college would like to include. NO

CRITERION I: CURRICULAR ASPECTS

1.1 Curricular 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

- It is aimed to provide the finest environment for teaching, learning, research, innovation and character building so as to mould youth of today into world-class technocrats of tomorrow who would endeavour to increase the quality of life for mankind.

MISSION

- Padmashri Dr. Vithalrao Vikhe Patil College of Engineering is committed to impart excellent technical education to the students to create techno excellent citizens, who will keep abreast with the changing technology and will be retaining rich cultural identity to the full satisfaction of our stake holder and society at large with further commitments to serve the nation.

OBJECTIVES

- To impart excellent technical education to young budding engineers to create technocrats and researchers to serve the nation.
- To create ethic based professional to give service to society and nation.
- To provide outcome based education through effective teaching learning process.
- To make an institute of excellence through good governance and value based technical education.
- To encourage students to participate in co-curricular and extra-curricular activities.
- To encourage students and faculty for research based projects and IPR registrations.
- To encourage students and faculty for higher education, research and publications.
- To focus on English communication, skill training, general knowledge and placing the students in reputed organizations.

Communication to students, teachers, staff and other stake holders:

The Vision and Mission statements are communicated to all students, faculty, staff and other stakeholders through display boards at each department, broacher and institute website. The vision, mission and quality policy are also published in the Institute prospectus.

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 institution has developed its own action plans for effective implementation of the curriculum. The Academic Core Committee (ACC) of the college is constituted for effective implementation of academics. The meetings are conducted regularly to overview teaching learning process. The effective teaching learning is done using teaching aids like black board, white board, power point presentations and use of OHP. In addition to this, students and teachers are encouraged for industrial visits, to participate in seminars, workshop and symposium. The entire procedure is as given below:

Class Room Learning:

- Academic calendar for both the semesters and syllabi are made available on web portal of institute.
- Work load and subject allocations are done in departmental faculty meeting headed by HOD at the end of earlier semester.
- Academic time table is prepared semester wise & displayed on notice board before commencement of each semester.
- All faculties prepares course file, lesson plan & get approved from HOD.
- The course file contains University syllabus, lesson plan, unit wise notes, titles of reference and text books, web portal address, unit wise university examination questions asked in previous 3 to 4 exams, Three university question papers with solutions etc.
- Teaching and learning is carried out by all faculties with the help of Chalk and board and other teaching aids such as LCD and Over Head Projector.
- Content beyond the syllabus is made available in soft copy such as certain Indian and international standards related but beyond the syllabi.
- The students are asked to refer various websites such as IEEE, CPRI, CBIP, IET, MERC, CERC, REC etc. for finding content beyond the syllabi related to their curriculum.
- They are also asked to browse various industry websites to get familiar with their product specifications and applications to certain areas. e.g. L & T website to know the product range of LT switchgears like MCB, MCCB, DOL Starters, Star Delta Starters, various relays etc.
- Every fortnight departmental academic progress is reviewed by Vice Principal & Principal.
- Internal test are conducted strictly as per university pattern to make the student conversant with university examinations.
- Monthly review of student's attendance is taken & it is communicated to defaulters & their parents by SMS, letter, Email and also displayed on notice board.
- Conducting remedial classes for academically weaker students and monitor their progress

Laboratory Learning:

- Lab manuals in the form of soft and hard copy are made available to students as per university curriculum.
- Batches of 15-20 students are made as per university and AICTE guide lines and display in the Lab timetable.
- Students are asked to follow the precautions before conducting any experiment.
- Experimental results are verified with theoretical values in the given time slots.
- Laboratory/Term work/Tutorial learning material is prepared and furnished to students.
- Design based experiments are asked to conduct to verify their theoretical values.
- Continuous assessment process has been implemented and depth of understanding the practical to the students is checked.

Evaluation of Learning Process:

- Observation of faculty delivery in the classrooms in terms of presentation skills, voice modulation, clarity, mannered pose, voice level, questioning etc. by the HOD every fortnightly.
- Analysis of student's feedback to take the necessary measures / tips for the improvement of teaching learning process.
- Fortnightly faculty meetings are held by the Head of the Department to review the teaching learning process, academic progress of the students, grievances if any, and suitable remedial measures are taken as and when necessary.
- Self assessment of faculty in terms of their test marks and university examinations results.

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?

The institution refers the curriculum prescribed by the affiliating university, Savitribai Phule Pune University, Pune. With feedback from the industry and faculty meetings, syllabi is prepared and approved by university Board of Studies. The institution encourages the faculty to attend and participate in the syllabus refresher workshops conducted by affiliating university to keep them updated.

The faculties of the college are also encouraged to have discussions, come up with suggestions, remedies, addition/ deletions of latest technology etc., with the industry persons, consultants, technical solution providers to improve the curriculum and teaching – learning methods.

Sufficient number of books and other teaching and reference material like Journals, Magazines, Teaching Modules and software are easily available to faculty from the central library to ensure effective delivery of curriculum. The Institution supports the process of enhancing the ability of the faculty to effectively

translate the curriculum in the following manner.

- By providing multimedia facilities to the faculties. LCD projectors are permanently fixed in the classrooms to have an effective teaching learning process.
- Institution has provided softwares as per curriculum of University. Also these softwares are used by students as well faculty for research and analysis.
- The faculties are encouraged to attend National and International seminars and conferences and present their research papers by providing financial assistance.
- The faculties are encouraged to attend Staff Development Programs, short term training program by providing financial assistance.
- The institution encourages the faculty to pursue higher studies and to take up the research work individually or in collaboration.
- The faculties are encouraged to apply for projects for research grants to different funding agencies such as AICTE, DST, and UGC etc., which help to enhance professional competence and increase promotional avenues.
- The institute has established R&D cell to monitor research work and AICTE, University funded projects and students projects.
- The faculty is encouraged to publish their research findings in National and International journals and the publication/ registration fees are reimbursed by the institute.
- Study leave is extended to faculty members who wish to pursue Masters or Ph.D. programs.
- Faculty members are also encouraged to organize National/International Conferences.
- Wi-Fi and internet facility is available in the campus for better teaching learning process.

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.

Engineering and Technology is a four year degree course affiliated to Savitribai Phule Pune University, Pune. It consists of two semesters per year having theory, lab work and internal term work. University conducts the examinations semester wise and declares the results annually. The weight age for the theory is 67% and to that of the practical, oral and term work is 33%. At first year and second year level, university conducts two online examinations per semester and one in- semester theory examinations are there at third year and fourth year. The project work either industry based or in house is at fourth year level. The sample structure for four year engineering course is as given below.

Sample Syllabus Structure**Savitribai Phule Pune University, Pune**

S.E. Electrical Engineering 2012 – Course

(w.e.f. 2013-2014)

SEMISTER I											
Sr. No.	Subject Code	Subject Title	Teaching Scheme			Examination Scheme					Total Marks
			Th	PR	Tut	Paper		TW	PR	OR	
						Written Exam	Online Exam				
1.	203141	Power Generation Technologies	04	--	--	50	50	--	--	--	100
2.	207006	Engineering Mathematics	04	--	01	50	50	25	--	--	125
3.	203143	Material Science	04	02	--	50	50	--	--	50	150
4.	203144	Analog & Digital Electronics	04	02	--	50	50	25	50		175
5.	203145	Electrical Measurements & Instrumentation	04	02	--	50	50	25	50		175
6.	203151	Soft Skill	--	02	--	--	--	25	--	--	25
		Total	20	08	01	250	250	100	100	50	750

S.E. Electrical Engineering 2012 – Course

(w.e.f. 2013-2014)

SEMISTER II											
Sr. No.	Subject Code	Subject Title	Teaching Scheme			Examination Scheme					Total Marks
			Th	PR	Tut	Paper		TW	PR	OR	
						Written Exam	Online Exam				
1.	203145	Power System I	04	--	--	50	50	--	--	--	100
2.	203146	Electrical Machine I	04	02	--	50	50	25	50	--	175
3.	203147	Network Analysis	04	02	--	50	50	50	--	--	150
4.	203148	Numerical Methods and Computer Programming	04	02	02	50	50	25	50	--	175
5.	203149	Fundamentals of Microprocessor & Microcontroller	04	02	--	50	50	--	--	50	150
		Total	20	08	02	250	250	100	100	50	750

Savitribai Phule Pune University, Pune

T.E. Electrical Engineering 2012 – Course

(w.e.f. 2014-2015)

SEMISTER I											
Sr. No.	Subject Code	Subject Title	Teaching Scheme			Examination Scheme					Total Marks
			Th	PR	Tut	Paper		TW	PR	OR	
						Written Exam	Online Exam				
1.	311121	Industrial and Technology Management	04	--	--	30	70	--	--	--	100
2.	303141	Advance Microcontroller and Its Application	04	02	--	30	70	--	--	50	150
3.	303142	Electrical Machines II	04	02	--	30	70	--	50	--	150
4.	303143	Power Electronics	04	02	--	30	70	--	50	--	150
5.	303144	Electrical Installation Maintenance & Testing	04	02	--	30	70	50	--	--	150
6.	303145	Seminar & Technical Communication	--	02	--	--	--	50	--	--	50
Total			20	10	--	150	350	100	100	50	750

T.E. Electrical Engineering 2012 – Course

(w.e.f. 2014-2015)

SEMISTER II											
Sr. No.	Subject Code	Subject Title	Teaching Scheme			Examination Scheme					Total Marks
			Th	PR	Tut	Paper		TW	PR	OR	
						Written Exam	Online Exam				
1.	303146	Power System II	04	02	--	30	70	25	50	--	175
2.	303147	Control System I	04	02	--	30	70	--	--	50	150
3.	303148	Utilization of Electrical Energy	04	--	--	30	70	--	--	--	100
4.	303149	Design of Electrical Machines	04	04	--	30	70	25	--	50	175
5.	303150	Energy Audit and Management	04	--	--	30	70	--	--	--	100
6.	303151	Electrical Workshop	--	02	--	--	--	50	--	--	50
Total			20	10	--	150	350	100	50	100	750

Savitribai Phule Pune University, Pune

B.E. Electrical Engineering 2012 – Course

(w.e.f. 2015-2016)

SEMISTER I											
Sr. No.	Subject Code	Subject Title	Teaching Scheme			Examination Scheme					Total Marks
			Th	PR	Tut	Paper		TW	PR	OR	
						In sem	End sem				
1.	403141	Power System Operation and Control	04	02	--	30	70	25	--	50	175
2.	403142	PLC and SCADA Applications	04	02	--	30	70	25	50	--	175
3.	403143	Elective I	04	02	--	30	70	25	--	--	125
4.	403144	Elective II	04	--	--	30	70	--	--	--	100
5.	403145	Control System II	04	02	--	30	70	25	--	50	175
6.	403146	Project	--	02	--	--	--	--	--	--	--
Total			20	10	--	150	350	100	50	100	750

B.E. Electrical Engineering 2012 – Course

(w.e.f. 2015-2016)

SEMISTER II											
Sr. No.	Subject Code	Subject Title	Teaching Scheme			Examination Scheme				Total Marks	
			Th	PR	Tut	Paper	TW	PR	OR		
1.	403147	Switchgear and Protection	04	02	--	100	25	--	50	175	
2.	403148	Industrial Drives and Control	04	02	--	100	25	50	--	175	
3.	403149	Elective III	04	02	--	100	25	--	25	150	
4.	403150	Elective IV	04	--	--	100	--	--	--	100	
5.	403146	Project	--	06	--	--	100	--	50	150	
Total			16	12	--	400	175	175	750		

The institution is taking following initiatives for effective curriculum delivery:

- The institution is taking special efforts for the professional development of its faculty to facilitate effective curriculum delivery.
- The institutions have provided the soft skill training to all faculties with subsidized rate to enhance the English communication.
- Detailed course schedules and course material are prepared by the faculty for the subject allotted to them.
- Modern teaching aids like LCD projector and OHP are provided for conducting classes.
- Institute has an exclusive seminar hall for expert talks and students seminar.
- Appropriate numbers of hours are allocated for tutorial work.
- The Attendance records are scrutinized by the Head of the department once in a month to ensure coverage of topics as per syllabus teaching schedules and students attendance
- Fortnightly staff meetings are held by the Head of the Department to review the teaching learning process, academic progress of the students, grievances if any, and suitable remedial measures are taken as and when necessary.
- Faculty is encouraged to pursue Ph D programs and also to take up the research work individually or in collaboration for improving their professional skills.
- Updating laboratory facilities to fulfill the requirement of the curriculum.
- Remedial classes are conducted on every Saturday for the academically weak students.
- Wi-Fi network connectivity is provided to all the faculty and students for up keeping knowledge.
- Computers are provided to faculty members for improvised curriculum delivery.
- Department promotes students for Industries sponsored projects.
- Students are encouraged to participate in various technical events/competitions conducted in-house and outside campus.
- Students are encouraged to do innovative project work.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the University for Effective Operationalisation of the curriculum?

I. The networking and interactions with industry:

The institution has developed good relations and networks with various local industries, State Electricity board Engineers, PWD engineers, BSNL experts for effective implementation of the curriculum. In order to bridge the gap between the academia and the industry and to provide the students the actual practical scenario with latest technology that exists in the industries. Regular industrial visits are arranged which helps the students to clear fundamental engineering aspects, latest developments, and practical knowledge too. Industry excellences are also invited to deliver expert lectures on latest technology. Alumni

employed in the industries are invited to interact with the students on the topics in the curriculum as well as outside the curriculum. Students are encouraged for industry sponsored projects and vocational industrial trainings.

A) MoUs with the industry

Civil Engineering

Sr.No	Name of Industry	Date of MoU
1	EESPEE Construction Pune.	01/06/09
2	Ashoka Construction, Ahmednagar	01/06/10
3	Suma Construction, Pune	01/06/10
4	Raj Group, Ahmednagar	01/06/12
5	A.C.Kothari Associates, Ahmednagar	01/06/13
6	Liba Construction, Ahmednagar	01/06/13
7	A.D.Kulkarni Associates, Ahmednagar	01/06/13
8	Sai Associates, Aurangabad	01/06/14

Mechanical Engineering

Sr. No.	Name of the Company & Address	Date of MoU
1	Godavari Khore Namdeoraoji Parjane Patil Taluka Sahakari Dudh Utpadak Sangh Limited, Kopergaon	10-08-2008
2	Padmashree Dr. Vithalrao Vikhe Patil Sahakari Sakar Karkhana Ltd., Pravarananagar, Tal. Rahata, Dist. Ahmednagar	08-12-2009
3	Hoganas India Pvt. Ltd.D-96/97, MIDC, Ahmednagar	22-07-2011
4	Spok Technologies , Pune	15-09-2011
5	Shrijee Process Engineering Works Ltd.,Plot.D-1M MIDC, Ahmednagar	03-10-2011

Instrumentation & Control

Sr.No.	Name of Company	Date of MoU
1	Hoganas India Pvt. Ltd. D96/97 MIDC Ahmednagar	11/08/2011
2	Tantradnyan Engineers G-95, MIDC,Ahmednagar	29/08/2011
3	Enlighten Education Society20-A, Opp. S. T. Workshop,Kothla Road Ahmednagar	20/09/2011
4	Infinity Engg. Solution W-32(B), MIDC, Industrial AreaAhmednagar4141111	15/10/2011
5	Gulmohor Switchnagar Pvt. Ltd Plot No. L-192, Nagapur, MIDC, Ahmednagar 414111	21/10/2011
6	Larsen & Toubro Limited A-9/A-10, MIDC, Ahmednagar	25/10/2011
7	Epitome Component Ltd MIDC, Ahmednagar	27/10/2011

Electrical Engineering

Sr. No.	Name of Industry	Date of MoU
1.	Neat Wind Industries,L 121/214, MIDC, Ahmednagar	05/01/2010
2.	Ergon Power,L 33, MIDC, Ahmednagar	05/01/2010
3.	Universal Electrical,L 18, MIDC, Ahmednagar	05/01/2010
4.	Uttam Electromech Technologies' 34, MIDC, Ahmednagar	29/01/2010
5.	Avihas Electrical (P) Ltd,A 21, MIDC, Ahmednagar	16/02/2010
6.	Techno Trak Engineers, A 22, MIDC, Ahmednagar	16/02/2010
7.	Pyramid Industries,L 145, MIDC, Ahmednagar	16/02/2010
8.	Diginia Electronics,A 78, MIDC, Ahmednagar	16/02/2010
9.	JRP Electricals & Contractors, A 56, MIDC, Ahmednagar	17/02/2010
10.	Shriram Coating 186, MIDC, Ahmednagar	17/02/2010
11.	Sankalpa Electricals Pvt. Ltd,L 202, MIDC, Ahmednagar	17/02/2010
12.	Cummins Generator Technologies India Ltd, C 33, MIDC, Ahmednagar.	23/03/2010
13.	M/S Crompton Greaves Ltd, LT Motor Division, A6/2, MIDC, Ahmednagar	09/08/2010

Information Technology

Sr. No.	Name of Industry	Date of MoU
1	I.B.M. India PVT. LTD. Subramanyam Arcade I, Bannerghatta Road, Bangalore	28/11/11

Electronics & Telecommunication

Sr.No.	Name of Industry	Date of MoU
1	Infinity Automation Systems Pvt. Ltd.,Pune	7/2/2011
2	Hogonas India Pvt. Ltd.,MIDC, A'Nagar	15/2/2011

B) Industry Sponsored Project Groups

Department	Industry Sponsored Project Groups			
	2011-2012	2012-2013	2013-2014	2014-2015
Civil	02	02	02	04
Mechanical	06	06	13	20
Instrumentation & Control	01	02	02	Nil
Electrical	06	08	03	02
Information Technology	Nil	Nil	Nil	Nil
Electronics & Telecommunication	Nil	Nil	02	Nil

C) Industrial Training

Department	Industry Trained Students			
	2011-2012	2012-2013	2013-2014	2014-2015
Civil	10	10	10	20
Mechanical	04	05	06	07
Instrumentation & Control	Nil	Nil	Nil	Nil
Electrical	04	05	04	05
Information Technology	03	04	03	04
Electronics & Telecommunication	04	03	04	04

D) Industrial Visits**Civil Engineering**

Sr.No.	Date	Class	Visit Place
1	03/09/11	SE	Medical College, Ahmednagr
2	17/09/11	SE	B.P.Sangale Redimix Plant, Sinnar.
3	10/10/11	TE	Nathsagar Dam, Paithan, Aurangabad
4	4-5/10/11	BE	Bhatsa Dam, Thane
5	06/03/12	TE.	Water Treatment Plant, MIDC, Ahmednagar
6	12/03/12	SE.	Radhanagri Dam, Kolhapur
7	07/09/12	SE	Medical College, Ahmednagr
8	21/09/12	SE	B.P.Sangale Redimix Plant, Sinnar ,Nasik
9	13/08/12	TE.	Railway Station, Ahmednagar
10	07/09/12	TE.	Nathsagar Dam, Paithan, Aurangabad

11	16-17/09/12	BE	Ghatghar Dam, Akole, Ahmednagar
12	05/03/13	TE.	Water Treatment Plant, MIDC, Ahmednagar
13	10/03/13	SE.	Radhanagri Dam, Kolhapur
14	14/03/13	BE	Amanora Park, Pune
15	14/03/13	BE	Nashik Phata Fly Over, Pune
16	15/03/13	BE	Chandoli Dam, Karad, Satara
17	17/03/13	BE	Kudal, Ratnagiri
18	24-25/09/13	BE.	Khadakwasla Dam, Pune
19	05/10/13	SE	Medical College, Ahmednagr
20	19/10/13	SE	B.P.Sangale Redimix Plant, Sinnar, Nasik
21	20/03/14	TE.	Water Treatment Plant, Ahmednagar
22	30/08/14	TE	Sun Pharmaceuticals, Ahmednagar
23	18/09/14	TE.	Nathsagar Dam, Paithan, Aurangabad
24	19/09/14	TE.	Nathsagar Dam, Paithan, Aurangabad
25	06/10/14	SE	Medical College, Ahmednagr
26	26/03/15	SE	MPKV, Rahuri.
27	27/03/15	BE	Shirdi Airport, Kakadi, Shirdi.

Mechanical Engineering

SN	Date	Class	Company
1	11/10/11	BE	HPCL, Sinner, Nasik
2	3/2/12	TE	Pumping Station, MIDC, Ahmednagar
3	16/3/12	BE	Dahanu power plant, Thane
4	29/3/12	SE	IGTR, Aurangabad
5	31/3/12	TE	Ghatghar power plant, Thane
6	6/11/12	BE	HPCL, Sinner, Nasik
7	7/2/13	SE	IGTR, Aurangabad
8	15/3/13	TE	Radhanagari power plant, Kohalapur
9	/3/13	TE	Pumping Station, MIDC, Ahmednagar
10	14/4/13	BE	DSSK Ltd Cogeneration Power Plant, Newasa, Ahmednagar
11	9/10/13	SE	Shiv alloy casting, MIDC, Ahmednagar
12	8/2/14	BE	DSSK Ltd Cogeneration Power Plant, Newasa, Ahmednagar
13	12/2/14	TE	Radhanagari power plant, Kohalapur
14	21/3/14	TE	Pumping Station, MIDC, Ahmednagar

15	23/9/14	SE	L & T Ltd , Ahmednagar
16	21/2/15	TE	Paitan Power Plant, Ahmednagar
17	24/2/15	BE	DSSK Ltd Cogeneration Power Plant,Newasa,Ahmednagar
18	18/3/15	TE	Pumping Station , MIDC, Ahmednagar
19	26/3/15	BE	JSW Energy Ltd, Ratanagiri

Instrumentation & Control

Sr.No	Date	Class	Visit Place
1	27/03/12	BE	RCF, Thal ,Alibaug
2	31/01/13	BE	Co-co cola wada Mapro, Mahableshwar
3	14/02/14	BE	RR Cable ,Silwasa
4	17/03/15	BE	Co-co cola wada ,Mapro, Mahableshwar

Electrical Engineering

Sr.No	Date	Class	Visit Place
1	30/09/08	SE	Ghatgar Hydro Electric Project Ghatgar ,Thane
2	9/08/2010	TE	Crompton greaves limited LT Motor Division, MIDC Area Ahmednagar
3	9/09/2011	TE	Cummins Generator Technology (I) , Ahmednagar
4	4/10/2011	BE	400/220 KV Substation Babhaleshwar, Ahmednagar
5	2&3/03/2012	TE	Rashtriya Chemical and Fertilizer Ltd, Alibaug, Raigad
6	21/03/2012	BE	HVDC Substation ,Padghe, Thane
7	26/03/2012	SE	Dodson Lindblom Hydro Power Station Pvt Ltd. Bhandardara, Ahmednagar
8	27/03/2012	SE	NTPS Eklhare, Nasik
9	29/03/2012	TE	MSETCL 132 KV Substation MIDC, Ahmednagar
10	28/08/2012	BE	400/220 KV Substation Babhaleshwar , Ahmednagar
11	13/09/2012	TE	Crompton Greaves Limited LT Motor Division, MIDC, Ahmednagar
12	6/03/2013	BE	R M MOHITE Industries ltd.RHEPP Radhanagari, Kolhapur
13	11/09/2014	SE	Dodson Lindblom Hydro Power Station Pvt Ltd. Bhandardara, Ahmednagar
14	12/09/2014	SE	NTPS Eklhare, Nasik
15	2/03/2015	TE	Crompton Greaves Limited LT Motor Division, MIDC Area Ahmednagar
16	15/03/2015	BE	CPRI, Bangalore
17	24/03/2015	TE	HVDC Padghe, Thane

Information Technology

Sr.No.	Date of Visit	Class	Visit Place
1	25/01/2013	TE	DCS Infotech, Kolhapur
2	06/02/2013	BE	DCS Infotech, Kolhapur
3	23,24/01/2014	BE	GMD Infotech, Hyderabad
4	7,8/02/2014	TE	DCS, Mumbai
5	03/01/2015	SE	DCS Infotech, Pune
6	19/03/2015	BE	Lead Infotech, Mumbai

Electronics & Telecommunication

Sr.No.	Date	Class	Visit Place
1	12/03/12	T.E. &B.E	Akashwani, Ahmednagar.
2	27/02 to 1/03/13	B.E.	Coca Cola Beverages India Pvt Ltd. Wada, Thane & Mapro Foods Pvt. Ltd, Wai Dist: Satara.
3	07-08/03/13	T.E.	Gadre Marine Export Pvt. Ltd. Plot No. EP-1 MIDC (Mirjole back), Ratnagiri-415639.
4	23/03/13	S.E.	S S control system, Valunj MIDC, Aurangabad
5	27/02 to 1/03/13	B.E.	Manshu Comtel Pvt.Ltd.& Mapro Foods Pvt. Ltd, Wai Dist: Satara.
6	10-11/02/14	T.E.	Deepak Industries Pvt.Ltd., Kolhapur.
7	2/03/15	S.E.	A.I.R. Akashwani, Ahmednagar
8	5-6/03/15	T.E.	Electronic Test & development Center, (EDTC), Shivajinagar. Pune,
9	10-13/03/15	B.E.	Manshu Comtel Pvt.Ltd.,MIDC, Satara.
10	29/03/14	S.E.	A.I.R. Akashwani, Ahmednagar

E) Guest Lectures**Civil Engineering**

Date	Topic	Name of Guest Lecturer	Affiliation	Targeted Students
05/09/11	Water Resource Management	Er. Udmale	Irrigation, Dept. Ahmednagar	S.E./T.E
15/09/11	Water Shed Management	Er. Dahatonde	Irrigation, Dept Ahmednagar	S.E./T.E
31/07/12	Finite Element Analysis.	Dr.A.S.Sayyad	SRESOCOE. Kopergoan	TE/ BE
06/09/12	Adsorption in Environmental Engineering	Dr.S.R.Mise	COE, Gulbarga	TE/ BE
15/09/12	Opportunities for Civil Engineer in Indian Railway.	Er.S.L.Paithankar	Central Railway, Ahmednagar	SE,/TE/ BE.
05/09/13	Construction of Flexible Pavement	Er.Abhijit Raundal	P.W.D Ahmednagar	T.E.
15/09/13	Advance in Bridge Engineering	Er.Bhushan Fegde	P.W.D Ahmednagar	B.E.
18/02/13	Prestressed Concrete	Prof. K.B.Shinde	G.P. Ahmednagar	B.E.
05/09/14	Maintenance of Dams	Er. Yogesh Hasnale	Irrigation Dept	B.E.
15/09/14	Contracts & Tendering	Er. Sanap	P.W.D Ahmednagar	B.E.
18/03/14	Canal Construction & Maintenance	Er.Devdatta Falfale	P.W.D Ahmednagar	T.E.
16/08/14	Waste Water Treatment	Prof.R.K.Lamkhede	P.R.E.C.Loni	B.E.
07/03/15	ISO Certification	Prof. R.P. Amle	P.R.E.C.Loni	B.E.

Mechanical Engineering

Date	Topic	Name of Expert Lecture	Affiliation	Targeted Students
5/04/2012	Expert Lecture on Nuclear Power Plant	A.P.Deokule	BARC, Mumbai	B.E
19/07/2012	Introduction to Energy Scenario	A.B.Chowdhary	CGL, A'Nagar	T.E,B.E
23/07/2012	Energy Audit and Management	Ramesh Bora	KSB Pumps, A'Nagar	T.E
27/02/2013	One day Workshop on Gear Drive	Ganesh Karale	Norton Gear Box Pune	B.E
3/4/2014	Lecture on Concept and understanding of Quality	S.B.Singh	DRDO A'nagar	B.E
17/03/2015	Two day workshop on PLC SCADA	A.Modi	IARE Tech. Aurangabad	T.E

Instrumentation & Control

Date	Topic	Name of Guest Lecturer	Affiliation	Targeted Student
05/08/11	Career in instrumentation engineering	Sandeep Thange	Krish infotech, Pune	TE, BE
05/10/11	PCB designing	S. M. Shirsath	PREC, Loni.	TE
	Fuzzy logic & application	Dr. Shradha Ingale	New Arts College, Ahmednagar	BE
08/10/11	Communication Protocol	B.J.Parvat	PREC, Loni.	BE
	Temperature Control loop	Deepak Ingole	COE, Pune	BE
	Career in instrumentation engineering	Sandeep Thange	Krish infotech, Pune	TE, BE
	Industrial Building Automation	Prashant Kulkarni	Forbes Marshall, Pune	BE

Electrical Engineering

Date	Topic	Name of Guest Lecturer	Affiliation	Targeted Student
26/09/11	Resurgence Awakening of Youth	Mr. Sandip Sawan, Director	Ideal innovative sol. Mumbai	SE, TE
11/11/11	Challenges in EHV / UHV power transmission”	Er. Maske R N Chief Engineer,	MSCTCL, Nashik	SE, TE
20/02/12	Applications of MATLAB in Digital Control System	Dr. A.S.Khandekar	Zeal COE, Pune	TE
17/09/13	Design of Induction Motor	Er. Charuta Mule DYM	Crompton Greaves Ltd. Ahmednagar	TE
21/02/14	Latest trends in Insulation design of Induction Motor	Er. Sanjay Phadke (DYM)	Crompton Greaves Ltd. Ahmednagar	TE, BE
05/03/15	Design & Testing of 3 phase Alternator	Er. Dilip Pawar	Crompton Greaves Ltd., Ahmednagar	TE, BE
10 /03/15	Energy Audit & Scope of Energy Conservation	Er. Sharadkumar Magar	Hoganas India Ltd., Ahmednagar	BE

Electronics & Telecommunication

2011-12						
Sr No	Name of the event	Duration of event	Target audience	Resource persons invited	Organized by	Name of coordinator
1.	Expert lecture on personality development & Electrical drives	17/09/11	B.E. (60)	A.B.Chaudary, Department of Electrical	Department & EESA	Ms. Botkar J.P.
2.	Expert lecture on Electrical drives	19/09/11	60	A.B.Chaudary, Department of Electrical	Department & EESA	Amol Landage
3.	Expert lecture on Advances in Computer Networking	05/10/11 & 07/10/11	BE 45	Mr.Sunil Nimbalkar	Department & EESA	Mrs.Botkar J.P.
4.	Seminar on ““Hardware networking & devices”	01 day 21/03/2011	BE 45	1.Er.Sunil Nimbalkar	E & TC Department	Mrs.A.K.Patil C.K.Kalwade
5.	Seminar on “Basics of Networking”	24/03/2011	BE 70	1.Er.Vivek Andhale	E & TC Department	Mrs J.P.Botkar C.K.Kalwade
6.	Five days Workshop on PLC & SCADA	26 th -30 th march2012	B.E. 60	Sandeep Thange, Krish infotec	EESA & Department	Prof Botkar J.P.
7.	One day national Seminar on “Research Opportunities in VLSI Design”	10 th April 2012	Faculties	Dr. Mohd Hasan, AMU, Aligarh	E & TC Department	Prof Pabale S.D
2012-13						
1.	Seminar on Youth Day	11 th Jan 2013	S.E., T.E students	Prof Shelke, Maruti Master mind career academy	Department & EESA	Prof Deshpande N. M.
2.	Seminar on career opportunities in Embedded.	8 th Feb2013	B.E. students	Prof Chinmay Ook,Excel Tech Pune	Department & EESA	Prof Gaikwad S U
3.	Seminar on Automated guided vehicle	19 th March 2013	B.E. students	Prolofic SunilTomar, Maintenance manager Tata motors,Pune	Department	Prof Khakal V S
2013-14						
1.	Expert lecture on Big Data.	3 rd march14	T.T & B.E Students	Vidya chitre,HOD Bharti vidhyapith Navi mumbai	E & TC Department	Prof. A.K.Patil
2.	Seminar on Meditation & mind setting.	5/7/13	B.E. students	Swami Aryanand	EESA	Prof. S.R. Udawant
3.	Tree Plantation	05/09/2013	B.E. students	Principal	EESA	Prof. N.M. Deshpande
2014-15						
1.	Workshop on “Robovision-14”	2 nd &3 rd sept14	B.E Students	1.Mitul bijlani 2Harikrishna Singh	E & TC Department	Prof Kalawade C.K
2.	Lecture on Currier Guidance after Graduation	05/03/2015	B.E Students	Vedant Ramekar Executive Engg., KPIT Cummins., Pune	E & TC Department	Prof Kalawade C.K

F) Details of soft skill development program

Soft skill programs are conducted in each semester to enhance the employability of the students.

Civil Engineering

Date	Topic	Name of Expert	Targeted Students
15/07/11	Communication Skill	Dr.M.P.Sharma	SE
09/10/11	Carrier Guidance	Dronacharya Academy	TE
05/03/12	Communication Skill	Dr.M.P.Sharma	SE
08/07/12	Guidance for Competitive Exam	Borhade Academy	TE
10/01/13	Communication Skill	Prof.A.U.Khandare	SE
01/08/13	Personality Development	Prof.A.U. Khandare	TE
15/01/14	Communication Skill	Prof.A.U. Khandare	SE
17/07/14	Personality Development	Prof.A.U. Khandare	TE
08/01/15	Soft Skill	Dr.M.P.Sharma	SE
15/09/15	Personality Development	Prof.A.U. Khandare	TE

Electrical Engineering

Date	Topic	Name of Expert	Targeted Students
14/09/11	Technical Aptitude Test (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
15/09/11	Poster Presentation (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
15/09/11	Debate Competition (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
23-24/02/12	Power point Presentation Competition	Department of Electrical Engineering	SE,TE,BE
14/09/12	Technical Aptitude Test (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
15/09/12	Poster Presentation (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
15/09/12	Debate Competition (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
23-24/02/13	Power point Presentation Competition	Department of Electrical Engineering	SE,TE,BE
13/09/13	Technical Aptitude Test (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE

15/09/13	Poster Presentation (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
15/09/13	Debate Competition (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
23-24/02/14	Power point Presentation Competition	Department of Electrical Engineering	SE,TE,BE
25/02/14	How to face the interview	Prof. A. B. Chaudhury (Retd Chief Engineer C.G.Ltd. Ahmednagar)	SE,TE,BE
12/09/14	Technical Aptitude Test (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
15/09/14	Poster Presentation (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
15/09/14	Debate Competition (Engineer's Day)	Department of Electrical Engineering	SE,TE,BE
23-24/02/15	Power point Presentation Competition	Department of Electrical Engineering	SE,TE,BE
04/03/15	How to face an Interview; Etiquettes & Manners	Mrs. Babita Jaggi, Prominent Speaking English Institute, Ahmednagar	TE,BE
12/03/15	Electricity Generation Technology-2015 PPT Competition	Department of Electrical Engineering	SE,TE,BE
19/03/15	IET, Present around the World (PATW-2015)	Institute Level	SE,TE
26/03/15	IET, Present around the World (PATW-2015)	District Level	SE,TE

II The networking and interactions with research bodies:

- Many faculties are members of research and professional bodies like IET, IE(I), ISTE etc.
- Many faculties are working with research funds received from BCUD Pune, AICTE MODROBS.
- The Various Institution organizes technical events viz Discovery- National level paper presentation competition, Prophets- National level project exhibition. Also lectures on latest cutting edge technologies by inviting eminent personality from various Research Institutes and organizations and provides a solid platform to interact with them for collaborative activities.
- Few faculties are working on Research promotion schemes of AICTE.
- Institute has opened student's chapters of Institution of Engineers, IE (I).
- Students and faculty actively participate in institutional chapter activities such as IET, IE(I).

BCUD Savitribai Phule Pune University, Pune**Research Fund details****Civil Engineering**

Sr. No	Name of Co-ordinator	Sanctioned Amount	Funding Agency	Sanction Letter No.	Utilization
1	Prof.U.R.Kawade	1.00 Lac	BCUD University of Pune, Pune	BCUD/OSD/360/108	In Progress
2	Dr.A.J.Shirke	1.50 Lac	BCUD University of Pune, Pune	BCUD/OSD/120/136	Yes
3	Dr.A.J.Shirke	1.50 Lac	BCUD University of Pune, Pune	BCUD/OSD/1113/107 dated 27 th March 15	In Progress

Mechanical Engineering

Sr. No.	Name of coordinator	Sanctioned Amount	Funding Agency	Sanction Letter No.	Utilization
1.	Prof. Dr. H.N. Kudal	2.30 Lac	BUCD University of Pune, Pune	BCUD/ OSD/ 360/108 dated 27 th Nov 2013	In Progress
2.	Prof.J. Jaykumar	2.00 Lac	BUCD University of Pune, Pune	BCUD/ OSD/ 3179/61 dated 31 st March 2012	Yes
3.	Prof.R.R. Navther	2.00 Lac	BUCD University of Pune, Pune	BCUD/ OSD/ 3179/61 dated 31 st March 2012	Yes
4.	Prof. P.A. Devkule	2.00 Lac	BUCD University of Pune, Pune	BCUD/ OSD/ 512 dated 15 th Feb 2011	Yes
6.	Prof.J. Jaykumar	12 Lacs	AICTE, New Delhi		Yes

Electrical Engineering

Sr. No.	Name of coordinator	Sanctioned Amount	Funding Agency	Sanction Letter No.	Utilization
1.	Prof.M.G.Unde	1.00 Lac	BUCD University of Pune, Pune	BCUD/ OSD/ 184 dated 11 th May 2009	Yes
2.	Prof.Ms.K.R.Ghadge	2.00 Lac	BUCD University of Pune, Pune	BCUD/ OSD/ 512 dated 15 th Feb. 2011	Yes
Nil					

Engineering Sciences

Sr. No.	Name of coordinator	Sanctioned Amount	Funding Agency	Sanction Letter No.	Utilization
1.	Prof.Dr. S. J Halnor	1.90 Lac	BUCD University of Pune, Pune	BCUD/OSD/360/108	In Progress

Members of Different Bodies**Civil Engineering**

Sr.no	Name of Faculty	Professional Bodies	Position
1	U.R.Kawade	ISTE,ISSEAMIE	Member
2	A.J.Shirke	MISTE, GSI, IOE, ISRMTT	Member
3	V.R.Kulkarni	ISTE,	Member
4	M.P.Wagh	HDUG,ISTE,ISRMT, AMIE, IAHS	Member
5	N.A.Patil	IOE	Member
6	S.N.Daule	IEI	Member
7	P.B.Autade	ISTE, ISSE, AMIE	Member
8	M.V.Gunjaj	HDUG	Member
9	N.M.Mulik	IOE	Member
10	P.K.Bhandari	MISTE	Member

Instrumentation

No.	Name of Staff	Society	Position
1	Prof. A. R. Laware	ISTE	Life Member
2	Prof. S.S. Mandhare	ISTE	Life Member
3	Prof. S. B. Joshi	ISTE	Life Member

Electrical Engineering

a) National Committee			
	Name of Faculty	Committee	Membership No./ Id
1	Prof. M.G. Unde	MIE	M-131252-3
		ISTE	LM 15861
		Electrical Inspector	25458
		Ex. BoS Chairman	From 2005 to 2010
2	Prof. S.A. Markad	AMIE	AM 093690-4
		ISTE	LM 44888
3	Prof. K.R. Ghadge	AMIE	G-546510-5
b) International Committee			
1	Prof. M.G. Unde	IET	1100332092

Information Technology

No.	Name of Faculty	Professional Bodies	Position
1	D.A.Vidhate	LM-IEI, LMCSI, LMISTE, ACM, IEEE	Member
2	Ms. M.N.kale	LM-IEI, LMCSI, LMISTE	Member
3	R.G.Raut	LM-IEI, LMCSI,	Member
4	Ms.A.B.Bavane	LM-IEI, LMCSI,	Member
5	G.M.Dahane	LM-IEI	Member
6	Ms.S.S.Pophale	LM-IEI	Member
7	A.A.Pund	LM-IEI	Member
8	Ms.M.S.Gunjal	LM-IEI	Member
9	Ms.J.P.Gaidhani	LM-IEI	Member
10	Ms.P.S.Gayke	LM-IEI	Member
11	Ms.Aditi Tripathy	LM-IEI	Member

Electronics & Telecommunication

No.	Name of Faculty	Committee	Member
1.	Prof.Magar S.S.	LM-IEI, LMISTE	Member
2.	Prof. Patil A.K.	LM-IEI, LMISTE	Member
3.	Prof. Kale V.G.	LMISTE	Member
4.	Prof. Deshpande N.M.	LM-IEI, LMISTE	Member
5.	Prof. Botkar J.P.	LM-IEI	Member
6.	Prof. Landge A.R.	LM-IEI	Member

III. The networking and interactions with university

- The Institute is affiliated to Savitribai Phule Pune University, Pune; Institute refers the syllabi prescribed by the University which have been fabricated by the Board of Studies consisting of members from various colleges affiliated to the University, representatives from industries at the level of manager or chief engineer, members from other university and national level autonomous bodies like DRDO, VRDE etc .
- Faculties of our institutes are Ex- BOS members, BOS chairman of University.

- Most of our senior faculties are involved in University curriculum development. Faculties have worked as a resource faculty in syllabus revision workshops conducted by various colleges on behalf of University.
- Many of the faculty members of Institute are regularly involved in Board of Examination of University activities like question paper setting, external examiners for Practical /Oral examinations, as a member of Squad. Internal and external senior supervisor. The faculty members are also deputed for Central Assessment Program (CAP) and for BE project evaluations.
- Faculties of various departments are encouraged to attend syllabus revision workshops organized by BoS of University at various affiliated colleges. Many faculties are worked as a resource faculty for such revisions. They are also regularly participated in curriculum development of University.
- Senior faculty members are working on different committee formed by university such as Local Inquiry Committee [LIC], Staff selection committee, Pay fixation committee, Syllabus revision committee, University grievance redressal committee.

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 College Academic Council, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.)

The institute is affiliated to Savitribai Phule Pune University, Pune, Maharashtra. University undergoes the syllabus revision after every four to five years. Board of studies of every branch of Engineering generally organizes the syllabus revision workshops to any one of the affiliated Institute on behalf of University. Various groups of senior faculties are formed for each subject. There is open discussions and debate for any addition / deletion of contents. The experts from various industries, National autonomous bodies, Academicians from other Universities are also invited for this syllabus revision. Peer review committee consisting of BOS Chairman, Industry excellence and Experts from other government institutes are also invited. To have conversant with new syllabi, refresher courses are get organized by related BOS. Many of our faculties are encouraged to attend such workshops. Many senior faculties of our institutes are working as a resource persons.

The institution has constituted Academic Advisory Council (AAC), which also takes part in the development of curriculum internally. The AAC has senior faculty of the different department and members from industry and Academia as its core members. Each department has Departmental Academic Advisory committee (DAAC) which meets once in a year and proposes new additions in the curricula which may be covered as content beyond syllabus to AAC.

Following Faculty members represented on the Board of Studies of Savitribai Phule Pune University, Pune.

Sr. No.	Name of Faculty	Department	Period	Position Held
1.	Prof. M.G. Unde	Electrical	2000 to 2005	Member, BOS Electrical
2.	Prof. M.G. Unde	Electrical	2005 to 2010	Chairman, BOS Electrical
3.	Prof. T.K. Nagraj	Civil	2005 to 2010	Member, BOS Civil
4.	Prof. S.D.Devkhile	Mathematics	2005 to 2010	Member, Senate

Contribution of Faculty in University Curriculum Development

A] Contribution of Faculty

Civil Engineering

Sr. No.	Name of Faculty	Name of Conference/Workshop/Seminar/SDP	Organizing Institute	Date
1	Dr. A.J. Shirke	One day workshop on syllabus setting of Advance Engineering Geology & Geoinformatic	MIT COE Kotharud Pune	31/03/2011
2.	Dr. A.J. Shirke	One day workshop on syllabus setting of Advance Engineering Geology & Geoinformatic	AISSMS College of Engg. Pune	10 th June 2015

Mechanical Engineering

Sr. No.	Name of Faculty	Name of Conference/Workshop/Seminar/SDP	Organizing Institute	Date
1	Chopade M.S.	Syllabus Implementation Workshop For MP 1 Subject S.E Mech	AISSMS College of Engg. Pune	9 th July 2013
2	Patekar VP	One day workshop on syllabus setting of Design of Machine Elements 1 &2	BhivarabaiSawant College of Engg and Research	19/03/2014

Instrumentation

Sr. No.	Name of Staff	Subject	Organizing Institute
1	Prof. Gade R. S.	EI	COE, Pune
2	Prof. Wankhade S. A.	S&T	COE, Pune
3	Prof. Wankhade S. A.	TSC	COE, Pune
4	Prof. Wankhade S. A.	TSC	COE, Cummins,Pune

Electrical Engineering

Sr. no.	Name of staff	Date	Class	Syllabus development in Subject	W/S Attended at college
1	Prof M.G.Unde	6/04/11	BE Electrical	Syllabus revision in SGP	K.K. WAGH IEE&R, Nasik
		2/11/12	SE/TE/BE Electrical	Syllabus structure revision in EM/C-I SGP,PSOC	Modern college of Engineering, Pune
		3/01/14	TE Electrical	Syllabus revision (2012 course)	ZES's Dnyanganga College of Engg and Research Narhe,Pune
2	Prof. S.K.Sheikh	6/04/11	BE Electrical	Syllabus revision in HVE,EHVT	K.K. WAGH IEE&R, Nasik
		2/11/12	SE/TE/BE Electrical	Syllabus structure revision in Material science	Modern College of Engineering ,Pune
		3/01/14	TE Electrical	Syllabus revision (2012 course)in Utilization of electrical energy	ZES's Dnyanganga College of Engg and Research ,Narhe,Pune
3	Prof S.A.Markad	6/04/11	BE Electrical	Syllabus revision in smart grid, renewable energy	K.K. WAGH IEE&R, Nasik
		02/11/12	SE/TE/BE Electrical	Syllabus structure revision in EMI	Modern college of Engineering ,Pune
		3/01/14	TE Electrical	Syllabus revision (2012 course) in ADE	ZES's Dnyanganga college of engg and research ,Narhe,Pune
4	Prof, S.K.Awaze	2/12/13	SE Electrical	Syllabus revision (2012 course) in ADE	PVG COET ,Pune

B] Resource Faculty for Syllabus Development**Electrical Engg.**

Sn.	Name of staff	Date	Class	Subject	W/S Attended at college
1	Prof M.G.Unde	15/06/12	FE Electrical	BEE	VIIT ,Pune
		13/12/13	SE Electrical	EEE (SE Mech.)	Marathwada Mitra Mandal COE, Pune
		02/12/13	SE Electrical	Electrical Machine -I	PVG COET,Pune
3	Prof S.A.Markad	02/11/12	SE Electrical	Electrical Measurements & Instrumentation	PVG COET,Pune (Resource Person)

C) Workshop Attended for Syllabus Exploration**Civil Engineering**

Sr. No.	Name of Faculty	Date	Class	Subject	Institute
1	U.R.Kawade	09/06/14	TE	SA-II,SD-II	MIT,Pune.
2	A.J.Shirke	09/06/14	SE	Engg Geology	MIT Pune.
3	V.R.Kulkarni	09/06/14	TE	Env Engg-I	MIT Pune.
4	D.S.Pathare	09/06/14	TE	FM-II	MIT Pune.
5	S.L.Asava	09/06/14	TE	PMEE	MIT Pune.

Electrical Engineering

Sn	Name of staff	Date	Class	Subject /Topic	W/S Attended at college
1	Prof. S.K.Sheikh	6-10/03/13	BE	Hybrid wind-solar power generation system	Srugen Dipex 2013
2	Prof R.A Wakale	28/10/10	BE	Mini projects in renewable energy field	AISSMS COE,Pune
		26/07/12	FE	Basic Electrical Engineering	VIIT ,Pune
3	Prof K.R.Ghadge	15-16/01/15	FE to BE	Experimentation for research and effective technical writing.	IOIT ,Pune
4	Prof G.B.Murade	13/12/13	SE	Faculty orientation program workshop	Marathwada mitra mandal ,Pune
5	Prof.G.K. Shirsat	17/12/14	TE	Faculty orientation program workshop	PVG COET,Pune
6	Prof.A.P. Wankhade	17/12/14	TE	Faculty orientation program workshop	PVG COET,Pune

Electronics & Telecommunication

Year 2011-12					
Sn.	Name of staff	Date	Class	Subject /Topic	W/S Attended at college
1.	Prof. Magar S.S.	7/01/2012	B.E.	Nanotechnology	VIIT, Pune
2.	Prof. Botkar J.P.	13/7/2011	B.E.	Computer Network	JSPM's ICOER, Wagholi, Pune
		7/01/2012	B.E.	OFC	DCE&R, Pune.

3	Prof. Landge A.R	13/7/2011	B.E.	VLSI	G.H.Raisoni COE&Mgt. Wagholi, Pune
Year 2012-13					
Sn.	Name of staff	Date	Class	Subject /Topic	W/S Attended at college
1.	Prof. Wamne S.J.	18/3/13	S.E.	Online Exam of Electromagnetic	Gokhale ESSRH COE Nashik
Year 2013-14					
Sn.	Name of staff	Date	Class	Subject /Topic	W/S Attended at college
1.	Prof. Landge A.R	2 to 7Dec. 2013	S.E.	C.O.	AISSMSIOIT, Pune.
2.	Prof. Avhad M.B.	17 to 22 June 2013 2 to 7 Dec. 2013	S.E.	DS&A OOPS	RSCOE Pune. AIT COE Pune.
3.	Prof. Pansare K.N.	2 to 7 Dec. 2013	S.E.	ICA	Cummins COE, Pune
4.	Prof. Varpe P.B.	2 to 7 Dec. 2013	S.E.	AC	G.H.Raisoni Inst. Of Engg & Mgt., Pune
5.	Prof. Wamne S.J.	13/12/13	S.E. Mech.	Electronics & Electrical Engg.	MMCOE, Karvenagar, Pune.
6.	Prof. Pawase T.N.	2 to 7Dec. 2013	S.E.	Control System	DCOER, Pune
7.	Prof. Khakal V.S.	17 to 22 June 2013	S.E.	Network Theory	PVG COE Pune
8.	Prof. Gaikwad S.U	17 to 22 June 2013	S.E.	Signals & Systems	PICT Pune
9.	Prof. Lawande R.J.	17 to 22 June 2013	S.E.	Digital Electronics	SCOE, Wadgaon Budruk, Pune
10.	Prof. Pansare K.N.	17 to 22 June 2013	S.E.	EDC	SIT&S, Pune
Year 2014-15					
1.	Prof. Deshpande N.M.	12 to 14 June 2014	T.E.	DSP	BSIOT&R, Wagholi, Pune.
2.	Prof. P.P.Bhalerao	12 to 14 June 2014	T.E.	Electromagnetics	K.J.COE& Management Research, Pisoli, Pune
3.	Prof. A.R.Landge	12 to 14 June 2014	T.E.	Digital Communication	MESCOE Late V.K.Jogpath Wadia

					Campus, Pune
4.	Prof. Kalawade C.K.	12 to 14 June 2014	T.E.	Microcontroller & application	MIT, Kothrud, Pune
5.	Prof. Lawande R.J.	12 to 14 June 2014	T.E.	SPOS	MMM's COE Karvenagar
6.	Prof. Khakal V.S.	11 to 13 Dec. 2014	T.E.	AWP	Bharti Vidyapith COE, Pune

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, being an affiliated college, the college does not frame its own curriculum for any of the academic programmes.

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

The method of Analysis to ensure that the stated objectives achieved are –

- Curriculum objectives are mapped with content delivery in the theory and laboratory. The Departmental Academic Monitoring Committee (DAMC) assesses regularly the course files, handouts, PPT contents, university question banks and oral questions.
- Mapping objectives with evaluation of test, assignments, lab practice /term work.
- Design based experiments, experimental outcomes matching with theoretical values.
- The term work assessment; by testing the depth of understanding the experiment. Timely submission along with aesthetes.
- By assigning the Industry sponsored projects to the students.
- Industrial visits to the students and faculty.
- Industrial expert talk on latest development related to the curriculum.
- By arranging English communication skill, soft skill programmes for the students and faculty.
- By arranging technical quiz competitions, multiple choice questions, poster competitions, debates to excel them for the placement in reputed industries.
- By arranging the guest lectures to prepare the student for GATE examination for higher studies.
- Starting PG programs in Civil and Mechanical Engineering to pursue higher studied and research work.

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.

Following objectives/goals are broadly followed by all departments across the institution:

- To organize expert lectures of Industry person to bridge the gap between latest technology and curriculum in all the departments once or twice in a semester.
- To conduct soft skill development program for students.
- To provide aptitude training for III year and IV year students.
- To motivate the students for higher qualification.
- To provide special courses in Skill Development
- To encourage faculty to attend workshops every year.
- To organize industrial visits for SE,TE,BE students.
- To interact with industry through industrial visits and sponsored projects.
- To ensure maximum students are placed in reputed companies.
- To ensure the students participate in presenting papers, Power point presentation competitions, IET Present around the world competitions, technical and non technical quiz competitions, Poster making competitions, allocation completions on the occasion of Teachers day and Engineers day every year.
- To ensure participation of faculty in design of curriculum conducted by the University
- To organize the one day Industrial visits for the faculties.
- To conduct a workshop / training for faculty once in a year.
- To conduct National/State Conference once in a academic year.

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

No.

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.

a. Range of Core /Elective options offered by the University and those opted by the college:

- **Core options:** Engineering & Technology is the Four Year Degree Program, a student can specialize in any one of the following fields: Electrical Engineering, Mechanical Engineering, Civil Engineering, Electronic and Telecommunication, Information Technology, Instrumentation engineering.
- **Elective options:** The Elective options available to BE students as per University curriculum. The lists of Elective subjects are as given below. Every discipline has one open elective subject. The student of any discipline can have choice for this subject.

List of UG Electives of each department:

Programme	Semester	Elective I	Elective II
Civil Engineering UG	VII	1. Structural Design of Bridges 2. Systems Approach in Civil Engineering 3. Air Pollution and Control 4. Architecture and Town Planning 5. Adv Geotechnical Engineering	1. Matrix Methods of Structural Analysis 2. Hydroinformatics 3. TQM & MIS in Civil Engineering 4. Earthquake Engineering 5. Advanced Concrete Technology
		Elective III	Elective IV
	VIII	1. Advanced Structural Design 2. Advanced Foundation Engineering 3. Advanced Engineering Geology with Rock Mechanics 4. Advanced Environmental Management	1. Construction Management 2. Integrated Water Resources and Planning 3. Advanced Transportation Engineering 4. Statistical Analysis And Computational Methods in Civil
Civil Engineering (PG)	I	1. Advanced Design of Concrete Structures 2. Structural Design of Concrete Bridges 3. Design of Composite Construction 4. Design of Foundations	1. Advanced Design of Metal Structures 2. Structural Design of Steel Bridges 3. Plastic Analysis and Design of Steel Structures 4. Design of Industrial Steel Structures
	II	a. Earthquake Resistant Design of Structures b. Structural Stability c. Structural Reliability d. Non-linear Analysis of Structure	
Programme	Semester	Elective I	Elective II
Mechanical (UG)	VII	1. Energy Audit Management 2. Tribology 3. Reliability Engineering 4. Machine Tool Design	1. Gas Turbine Propulsion 2. Product Design and Development 3. Operation Research 4. Adv Manufacturing Processes
		Elective III	Elective IV
	VIII	1. Refrigeration and Air Conditioning Equipment Design 2. Robotics 3. Industrial Engineering 4. Open Elective	1. Computational Fluid Dynamics 2. Finite Element Analysis 3. Design of Pumps, Blowers and Compressors
Mechanical (PG)		Elective I	Elective II
	Sem 1	1. Energy Audit and management 2. Project management	1. Environmental Pollution and Control

	Sem2	1. Mechanics of Composite Structure 2. Design of Composite Structures	1. Design of Piping System
	Sem3	1. Industrial Tribology-1 2. Industrial Tribology-2	1. Product life cycle management
Programme	Semester	Elective I	Elective II
Instrumentation & Control	VII	1. Biomedical Instrumentation 2. Laser based Instrumentation 3. Advanced Control System 4. Building Automation-I	1. Environmental Instrumentation 2. Nano Instrumentation 3. Advanced Digital Signal Processing 4. Automobile Instrumentation
		Elective III	Elective IV
	VIII	1. Advanced Biomedical Instrumentation 2. Fiber Optic Instrumentation 3. Process Modeling and Optimization 4. Building Automation-II	1. Instrumentation in Agriculture 2. Micro Electro Mechanical Systems 3. Digital Image Processing 4. Open Elective
Programme	Semester	Elective I	Elective II
Electrical Engineering	VII	1. Robotics and Automation 2. Power Quality 3. Illumination Engineering 4. Project Management	1. Restructuring and Deregulation 2. Embedded System 3. EHV Transmission 4. Smart Grid
		Elective III	Elective IV
	VIII	1. VLSI Design 2. High Voltage Engineering 3. Digital Signal Processing 4. ANN and its Applications in Electrical Engineering	1. Modeling of Electrical System 2. Renewable Energy System 3. Digital Control System 4. Open Elective
Programme	Semester	Elective I	Elective II
Information Technology	VII	1. Advance Database Management 2. Artificial Intelligence 3. Compiler Design Advanced Operating Systems	1. Embedded System 2. Mobile Computing 3. Multimedia Systems
		Elective III	Elective IV
	VIII	1. Real Time System 2. Software Architecture 3. Advanced Graphics 4. Advance Computer Networks	1. Bio Informatics 2. Neural Network and Expert System 3. Geo Informatics Systems 4. Open Elective
Programme	Semester	Elective I	Elective II
E&TC	VII	1. Digital Image Processing 2. Embedded System and RTOS 3. Industrial Drives Control 4. Microwave Communication and Radar	1. Entrepreneurship Development* 2. Joint Time Frequency Analysis 3. Micro-electromechanical-system and System on chip 4. Mobile Communication

		Elective III	Elective IV
	VIII	1. Soft Computing 2. Speech Processing 3. Television and Video Engineering 4. Test and Measurement Systems	1. Artificial intelligence 2. Automotive Electronics 3. Nanotechnology * 4. PLC and Industrial Process

b. Choice Based Credit System and range of subject options: No

c. Courses offered in modular form: No

d. Credit transfer and accumulation facility: No

e. Lateral and vertical mobility within and across programmes and courses: No

f. Enrichment courses

Add on courses:

The following Add-on/value added courses offered to the students to augment their skills and enhance their employee opportunities.

- Training program on CATIA
- Training program on ANSYS
- C++ programming
- PLC & SCADA
- PCB Designing
- Advanced JAWA programming

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.:

No

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 institution offers skill oriented programmes relevant to regional and global employment markets as follows. Specific programs are organized in the departments, besides adding additional contents to some of the individual subjects to enhance the skills of the students.

Institute offer the skill development programs such as:

- 1) Soft skills: Presentation, Public Speaking, Group discussion, Personality development, communications, aptitude etc.
- 2) Technical skill development programs to Civil and Mechanical students in form of learning software's like CATIA, ANSYS and AutoCAD software's for civil design engineering. Institute provides flexibility in scheduling and planning of academic calendar.

Specific programs conducted by the institute:

- Aptitude training program
- Computer based skill development programs.
- Soft skill development programs
- Workshops
- Seminars
- Power Point Presentations
- Industry Expert Talks
- Technical Paper Writing
- Industrial training and industrial tours
- Design projects.
- Industry Sponsored projects.
- Forecasting Projects for Renewable Energy

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?

No

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?

Since the institution is being an affiliated to the Savitribai Phule Pune University, Pune does not have the freedom of fabricating its own curriculum which meets the industry demands. To reach out to the goals and objectives, the institution has evolved additional inputs in the syllabi to face the current trends in competitive areas. The institute supplements the University's curriculum by conducting following academic programmes to achieve institution's goals and objectives:

- Conduction of Expert lectures of Industry persons, Persons from State Electricity boards, National organizations like Vehicle Research Development Engineering, Military Engineering Services , Maharashtra Electricity Regulation Commission , Railway Engineering, State and National Public Works Departments , Building and Bridges designers etc.
- Conduction of Industry –Institute Training program for faculty and industry persons.
- Institute is also conducting unit tests, Objective type test, Assignments, Mentoring classes and remedial classes for weak students.

- Institute is also conducting the Group discussion and Personal interviews, Personality development classes to enhance the communication skills of the students.
- Students are asked to refer articles from National, International Journals and periodicals.
- To impart knowledge on recent developments/technologies every semester expert lectures, seminars and industrial/technical visits are organized. Eminent speakers from industry and institutes are invited to deliver the guest lecturers for the students. This helps to bridge the gaps.
- Few Indian Standards such as Material Testing, Switchgear Testing, Transformer, Induction Motor, Alternators, Earthing, Installation, boiler, welding etc. are provided to the few groups of the students for their self learning and oral exam is conducted based on it.
- Students are encouraged to browse the websites such as IEEE, CBIP, CPRI, EPRI, Ministry of Power, MERC, CERC, IMMA, Railway, NTPC, NHPC, VRDE, DRDO ,DRDL, BARC, State Electricity Board etc for their seminar and project work.
- While doing their project work at final year, students interact with outside world where they gain and get exposure to recent trends in technologies. Apart from above, additional initiatives taken by the institution to ensure for effective curriculum delivery are as given below:
 - Language lab
 - Video lectures of NPTEL
 - Subscription of E journals.
 - Department Library and Central Library
 - Soft Skill development programs

Laboratory practices beyond syllabus

Civil Engineering

Sr.	Subject	Practical beyond syllabus
1	Geotechnical Engineering	Determination of bearing capacity of soil by using plate load test
2	Transportation Engineering	Viscosity test on bitumen

Mechanical Engineering

Sr.	Subject	Practical beyond syllabus
1	Tribology	Pin on disc Apparatus (Wear friction monitoring)

Instrumentation

Sr. No.	Subject	Name of Experiment
1	LIC	Offset compensation of IC-741
2	EI	Study of series RLC Circuit
3	PDC	Simulation of heat exchanger

Electrical Engineering

Sn	Subject	Practical beyond syllabus
1	Electrical Measurements & Instrumentation	Earth tester
2		Symbol Identification of all meters
3	Basic Electrical Engg	Study of wires, Meggar, sodium vapor lamp; Mercury vapor lamp etc
4		Study of safety precautions while working on electric installations and necessity of earthing.
5	Electrical Machines	Study of self-excitation characteristics of an induction machine
6	High Voltage Engineering	Breakdown studies of uniform field and non-uniform field gaps under A.C. excitation: A) point plane. B) Sphere-sphere. C) point-point.
7		Study of Impulse Generator and determination of Critical Flashover Voltage of a sphere gap
8		Partial discharge Measurement on a 11 KV 25 KVA transformer
9	Power System	Study Thermal, hydro & nuclear power stations
10		Study of Substation and Some important equipments in substation
11		Importance of earthing in electricity and its safety rules
12	Network Theory	Harmonic analysis of no load current of a transformer.
13		Determination of resonance, bandwidth and Q factor of R-L-C series
14		Determination of resonance of R-L-C Parallel circuit
15	Energy Audit and Management	Energy audit of college campus
16		Study of Various fixtures in used for illumination

Electronics & Telecommunication

Sr. No.	Subject	Practical Beyond Syllabus
1.	IC (S.E.)	Design & Implement Wien Bridge Oscillator Using Op Amp.
2.	IC (S.E.)	Design & Implement V-I Converter.
3.	DSA (S.E.)	Design of Calculator in 'C' language with a) Only one file without Function. b) With Function in same file. c) With Function Written in other file& including same file in main file
4.	OOP(S.E.)	Design of Calculator in 'C++' language using a) In same file without Function. b) In same file with Function. c) With Function Written in other file& including same file in main file.
5.	DSP (T.E.)	Study of FDA Tool.
6.	DC (T.E.)	Study of QPSK by using DSO
7.	OFC (B.E.)	PC to PC communication using Fiber Optic Cable.

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?

- Since the curriculum and syllabi is framed by Savitribai Phule Pune University, Pune by following the prescribed procedure, and the on line examinations with multiple choice questions , theory paper, practical and oral examination is based on the syllabus prescribed, the first priority is to cover the syllabus prescribed by the University.
- The college strictly follows the syllabi designed by University however, while delivering this syllabus content to the students, our faculties enrich it with their own expertise and experience so that the students also gain employable qualities that enable them get jobs in this highly competitive world. The training and placement cell of the college regularly interacts with the HR managers of companies and collects first hand information about the demands and expectations of the corporate sector regarding skill set of students. Keeping these demands in mind, curriculum is strengthened in terms content beyond syllabus and are dealt by conducting guest lecturers to make up the deficiencies in the students to make them employable. The institution can only enrich and organize the curriculum by supplementing it with extra courses as discussed in 1.3.1 so that the students are benefited in the best possible manner. The outcome based teaching learning method adopted in the institute enables to make the students learn and achieve targeted outcomes.
- Conduction of workshops on subjects like MATLAB APPLICATIONS in Engineering to make strong fundamental foundations for the students to excel them for higher education and researchers.
- Teaching faculty members are deputed to attend seminars, conferences, short term training program to update their knowledge so that it will be useful in achieving the PEOs fully.
- And also students are encouraged to participate in various events like technical paper presentation competition, quiz competition, model making competition, design competition etc to help them to develop various skills like presentation skill, interaction skill with outside world Art and Cultural Activities. The activities certainly help the students to achieve managerial skills.
- Department have Students Association and Students chapter of Institution of Engineers India under which different events are organized, managed by the students which would help them in developing their presentation and managerial skills such as Essay Writing, Technical Quiz, Engineers Day, Teachers Day, Blood Donation Camp, Interdepartmental Indoor & Outdoor sports.
- Alumni meet is organized every year. Every Alumni is free to express his views experience about the Institute / Department of the students, industry & society. We always welcome such ideas, suggestions to improve the PEOs.

Workshop Details**Civil Engineering**

Sr. No	Date of workshop	Subject	Experts name with Affiliation	Targeted Students
1	28/02/11	Ferro cement in Civil Engineering Structure	1. Dr. B. N. Divekar, Ferro cement Society Pune 2. Prof. A.G. Joshi, Ferro cement Society Pune 3. Er. Pushyamitra Divekar, Ferro cement Society Pune	SE,TE,BE
2	01/12/12	Avishkar Orientation Workshop	1. Dr. Nilesh Berad, Ashoka Business School, Nasik. 2. Dr. D.M. Gujrati, Sangamner College, Sangamner.	BE & ME
3	21-22/02/13	Advances in Geotechnical Engineering and Laboratory Experimentation	1. Dr. G.L. Shivakumar Babu, Professor, IIS Bangalore 2. Dr. P.B. Daigavane, Asstt. Prof. Govt. COE, Avasari	ME Structure
4	13/12/13	Avishkar Orientation Workshop	1. Dr. Sambhaji Pathare, ASC College Rahuri 2. Dr. Sanjay Dambare, Govt. College of Engineering, Pune	BE & ME
5	20/09/14	Avishkar Orientation Workshop	1. Dr. K.N. Dhumal, Sanchiti College of Arts & Science, Pune. 2. Dr. Sundar Iyyer, Ahmednagar College, Ahmednagar.	BE & ME

Mechanical Engineering

Sr. No	Date of Workshop	Subject	Expert with Affiliation	Targeted students
1	16/03/2015	Workshop on PLC and SCADA Mechatronics	Mr. Abhijeet Modi (IARE Technology, Aurangabad)	T.E

Instrumentation & Control

Sr. No	Date of workshop	Subject	Experts name with Affiliation	Targeted Students
1	10-13/01/13	PLC & SCADA	Sandeep Thange Director, Kirsh infotech Pune	TE,BE
2	21-25/01/14	PLC & SCADA	Sandeep Thange Director, Kirsh infotech Pune	TE,BE
3	19-22/03/15	PLC & SCADA	Sandeep Thange Director, Kirsh infotech Pune	TE,BE

Electrical Engineering

Sr. No	Date of workshop	Subject	Experts name with Affiliation	Targeted Students
1	22- 28/08/11	PLC & SCADA Application	Er. Sandip Thange, M.D., Krish Infotech, Pune	BE
2	16-2/07/12	PLC & SCADA Application	Er.Ramesh Wakchaure, Prolific Systems & Technologies Pvt. Ltd., Pune.	BE
3	17-22/07/13	PLC & SCADA Application	Er.Shriram Pendse, (Senior Enineer) Just Engineering, Pune	BE
5	7-12/07/14	PLC & SCADA Application	Er.Gajanan Chavan Sr. Manager (Knowledge Management) Prolific Systems & Technologies Pvt. Ltd., Pune.	BE
6	7-11/01/15	Computer Programming	Er. Vaibhav Patil, Disha Computers, Ahmednagar	SE

Information Technology

Sr. No	Date of workshop	Subject	Experts name with Affiliation	Targeted Students
1	13/08/11	Computer Network and Socket Programming	Santosh Sonawane, IACM Ahmednagar	TE
2	21-22/09/11	Ethical Hacking and Information Security	Rakesh Kumar, Shubham Gupta, Kryion Digital Securities Delhi and IIT Kharagpur	SE,TE, BE
3	30/07/12	Java Programming	Ashwin Banger LogicBits System Pvt.Ltd.	TE
4	24-25/08/12	Ethical Hacking	Sushant Jain,Kryion Digital Security	SE,TE,BE
5	26/08/12	Network Lab	Anand Sonawane, IACM Ahmednagar	TE
6	15/02/13	LaTeX paper Formatting	Prof. B. S. Borkar AVCOE, Sangmner	TE
7	27-28/08/14	Web Development	Mr. Faiz Akthar Wegilant IIT Bombay, Mumbai	T.E.
8	25-26/08/14	Cloud Computing	Mr. Pratik Kadam Wegilant IIT Bombay, Mumbai	T.E.
9	02/01/15	LaTeX Paper formatting	Prof. Sandip Hase AVCOE Sangmner	T.E.
10	03/01/15	Linux & Shell Programming	Mr. Pratik Magar Fizzible Tech. Pune	T.E.
11	10/02/15	Linux Kernel Programming	Prof. Tushar Kute Sandip Institute of Engineering & Research	T.E.

Electronics & Telecommunication

Sr.No	Date of workshop	Subject	Experts name with Affiliation	Targeted Students
1.	21/03/11	Seminar on ““Hardware networking & devices”	Er.Sunil Nimbalkar	BE
2.	24/03/11	Seminar on “Basics of Networking”	Er.Vivek Andhale	BE
3.	23-24/09/11	Workshop on PCB design concepts	Mrs.Savita Kalane	TE
4.	26-30/03/12	Five days Workshop on PLC & SCADA	Sandeep Thange, Krish infotec, Pune	B.E.
5.	10/04/12	One day national Seminar on Research Opportunities in VLSI Design	Dr. Mohd Hasan, AMU, Aligarh	SE,TE,BE
6.	27-28/08/12	Two Days Workshop on mobile making	Avadh singh, Campus Component Pune.	B.E.
7.	01/09/12	One week training Program	Er. Rajesh Beldar	B.E.
8.	01/01/13	Seminar on Youth Day	Prof Shelke, Maruti Master mind career academy	SE,TE,BE
9.	08/02/13	Seminar on career opportunities in Embedded.	Chinmay Ook,Excel Tech Pune	T.E
10.	19/03/13	Seminar on Automated guided vehicle	Prolofic, SunilTomar, manager Tata motors, Pune	TE,BE
11.	05/07/13	Seminar on Meditation & mind setting.	Swami Aryanand	SE,TE,BE
12.	05/09/13	Tree Plantation	Principal	SE,TE,BE
13.	2-3/09/14	Workshop on “Robovision-14”	Mitul bijlani	B.E Students

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?

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 are as follows:

Initiative taken by the institution towards:	Activities
Gender	We have 02 boys and 01 girl hostels in the College campus.
Environmental Education Climate Change	An environmental study is compulsory subject as per SPPU, Pune and students study at First, Third & Fourth year. The burden on Electricity is reduced by installing Solar Water Heaters at Hostels & Street Lights
Human Rights	The college has ragging free environment. Anti ragging boards are displaced at prominent places such as Office, Hostels, Canteen, Reading Room etc. Antiragging squad is working regularly. We have RTI Cell. Reservation grievance cell, Woman grievance cell in the campus is active.

ICT	All the classrooms, laboratories, corridors, reading rooms and campus, Wi-Fi facility is available to students/ staff free of cost. The faculty rooms are equipped with PC and are well furnished. Class rooms are equipped with LCD Projector Systems, LCD Screens, and related accessories for power point presentation. This makes effective curriculum delivery.
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Every department has its own Student Association which is conducts various events from time to time like Quiz, Debate and Poster Competition. Apart from this, the Institution takes necessary efforts in the form of on the issues like Gender sensitization, Climate Change, Environmental Education, Human Rights, and ICT etc.

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

Following are the various value-added courses/enrichment programmes offered to ensure holistic development of students:

Moral and Ethical Values:

Moral and professional ethical values, behavioral science are inculcated among the students by arranging soft skills classes of renowned faculties from outside word and through invited talk of distinguished personalities in these fields. Moreover, Nationalism, discipline, punctuality, reliability, cleanliness, hard work ships, honesty, truth and neatness etc are also being inculcated into their minds by our faculties.

Employable and Life Skills:

Technical knowledge as well communication skill is very essential for employment, the each department organizes the invited talk on How to face an Interviews? Etiquettes and manners for the students. At institute level, extra effort are being made for the development of communication skills of the students through personality development programs, group discussion, debate, Essay writing competition, Power point presentation competitions, IET Present around the world competitions etc. to enhance their presentation skills among the students. They are also allotted different responsibilities in organizing various events and activities such as cultural programs, competitions, seminars, workshops etc. This way they improve their team building and organizational skills. Every department has their own students association to have separate platform for conducting co-curricular and extracurricular activities.

Better career options:

Various multidisciplinary, advanced technologies, industry relevant training programmes are conducted by various centers of excellence established in the college in collaboration with multinational industries.

Community orientation:

Community developmental activities like blood donation camps, Tree plantation programmes, waste management programmes contribute to community and national development and also create awareness about ecology and environment.

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

The institution collects feedback from the stakeholders in enriching the curriculum in the following manner:

- It has been collected every year during alumni meet.
- Parent's feedback is collected every year during parents meet
- Recruiters, feedback are collected at the time of campus interviews.
- Employer's feedback is collected during IIR meet and from time to time.

The inputs, tips and suggestions are collected from the stakeholders regularly and it is used at the time of syllabus revision for enriching the curriculum that helps to improve the overall competency of the students for employability.

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

The institution has a very clear and transparent way to monitor and evaluate the quality of various enrichment programmes initiated by it. An IQAC and various other committees monitor and evaluate the efficiency and success of these enrichment programs. The institution makes sure that the programmes offered in the curriculum include contribution to human values, fostering global competencies among students, promoting the use of technology and quest for excellence. The feedback process mainly concentrates on whether the stated objectives (PEOS) and outcomes (POS) are achieved or not. Once the feedback is obtained, it is further evaluated to find the shortcomings and, or success of the program and its quality and corrections are made if necessary, for further improvements.

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?

The institution is an affiliated Engineering college to the Savitribai Phule Pune University, Pune and therefore there is a very limited scope for framing institutions curriculum on its own. The syllabus revision activity is a ongoing process every year conducted by the respective BOS of University. Generally, it is organized at one of the affiliated Engineering Institute. The host institute provides infrastructural support such as making available the seminar hall, Library books, various another halls for discussions of the Experts groups made as per expertise in respective subjects. Institute also furnish the feedback collected from the Industry- Institute cell, stake holder , parents, consultants regarding the changing technology for strengthening the curriculum. University expert teams visit the college a couple of times in a year for the purpose of extension of affiliation, natural growth and affiliation of new courses. During the inspection process the university expert team interacts with students and the faculty on several

aspects of availability of facilities and teaching-learning process. Feed back is obtained by the committee and the same is conveyed to the university. The college can only forward the suggestions of its faculty and the students to the university. The design and development of the curriculum is in the hands of the University only. However the institute regularly contributes to the design and development of the university curriculum in the following ways:

- Senior faculty members of our institution are participating in the curriculum design and development at every stage right from first year to fourth year of UG, PG and even in Ph.D.
- Faculty members are asked to attend the syllabus workshops and faculty development programmes conducted by the university affiliated colleges.
- Some faculty members are also contributing to curriculum development by working as a resource faculty.

1.4.1 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?

Yes

Questionnaires are prepared for different stakeholder's viz. students, parents, alumni, industry, and get approved by the IQAC of the institute and circulated to the stakeholders. Feedback collected is analyzed, discussed and the various requirements are incorporated while designing the PEO's and Pos. Feedback for every course is also obtained at the end of every semester and is analyzed to get the inputs for excellence of the syllabi. The various inputs received from feedbacks are also used to redefine the PO's and PEO's. Feedback from alumni, industry persons, state and central government agencies, is also collected on web portal and is used to fabricate design based lab practices and students projects.

1.4.2 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?) Any other relevant information regarding curricular aspects which the college would like to include.

Following programmes are introduced during last four years:

Sr. No	Academic year	Program introduced	Sanctioned intake
U. G. Level			
01	2012-13	Civil Engineering (Direct Second Year)	60
02	2013-14	Mechanical Engineering (Direct Second Year)	60

Sr. No	Academic year	Program introduced	Sanctioned intake
P. G. Level			
01	2012-13	Mechanical Engineering	24
02	2013-14	Civil Engineering (Additional Intake)	15 to 24

The rationale for introducing new courses in the institution is:

- To strengthened and to meet the industry demands
- To excel manpower in specialized field of engineering
- To develop center of excellence in various streams of engineering
- To encourage research and development among the young engineers and faculty.
- For cope up with our vision and mission.

Best Practices in Curriculum Aspects

- Institute has a centralized as well as departmental Academic Calendar for all departments. This keeps the targets for timely completion of departmental academic, curricular and extracurricular activities.
- Certificates plus cash Academic prizes are announced by the Savitribai Phule Pune University, Pune for rank holders as well subject toppers.
- At the institute these prizes are given in the name of Pad. Dr. Vithalrao Vikhe Patil award on occasion of his birth anniversary. Cash prizes are also given to subject toppers by the concern subject teachers with certain terms and conditions.
- 75 % attendance is mandatory to students for the theory classes as well lab work as per University rule.
- Feed back on curriculum and teaching learning process from stake holders and students.
- Offering subjects on soft skills, engineering sciences, disaster management, engineering economics and management and in the area of Environmental Studies in the curriculum.
- Use of LCD and interactive projectors in Teaching and learning process.
- External examiners for UG/PG practical examinations to ensure quality.
- Central paper assessment program [CAP] for theory paper assessment which makes the quality and hassle free assessment.
- Emphasis on software based lab practices, computing facilities and wi fi campus.
- Faculty members can participate and enjoy workshops, seminars, conferences, STTP etc. during long vacations as well during academic period.

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- The faculty members enhance their ability and knowledge by attending orientation programmes and FDPs.
 - Publication of articles, research findings in magazines and journals, authoring and co-authoring of books and course material are the various ways in which the curricular quality is sustained and enhanced.
 - Choice of Open elective of any branch for the students to have a study of his own interest.
 - Choice of elective subjects to enjoy the study of one's choice.
 - Organization of social activities like blood donation camp, tree plantation, NSS camp etc.
 - In addition to curriculum, recent advancements and innovations are brought to the notice of students and faculties through seminars, assignments and guest lectures
 - Organization of Educational Tours and Industrial visits by the various departments of the institute are the part of academic co curricular activity.
 - Celebration of teachers day, Engineers day, Annual Cultural events, organization of sports, debating and elocution competitions as an art of extracurricular activities.
 - The College has set up a Feedback Evaluation Unit for proper and timely analysis of feedback.
 - Maintaining professional work ethics, inculcating human values.
 - Introduction of computer lab, Language Laboratory.
 - Subscription to e-journals.
 - Book bank facility for SC and ST students.
 - Seminars, workshops, refresher and orientation courses are conducted and attended by the faculty.
 - Extension/Guest lectures are arranged for the students in various disciplines by inviting eminent personalities.
 - Assignments, project work, group discussions, oral presentations form a part of the curriculum.
 - The Placement Cell organizes campus interviews for UG and PG students by inviting a number of companies.
 - Faculty development programmes.
 - Training to Teaching Faculty and Non teaching staff
 - Improvement Classes/Remedial classes/ tutorial classes conducted for improving the performance of academically weaker students as per the norms of AICTE.

CRITERION II: TEACHING - LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

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

Publicity:

- Admission procedure is adopted as per rules and regulations laid down by Directorate of Technical Education (DTE), Government of Maharashtra State. DTE published admission notification time to time in all well known national and regional daily newspapers.
- The advertisements for admission to different courses are published by Institute in all well known newspapers from time to time. The advertisement contains detailed information about different courses, eligibility norms, process of admission, academics as well as facilities provided by institute.
- The advertisements for admission are broadcasted by Institute on radio stations, Ahmednagar cable TV networks and Institute website: <http://www.enggnagar.com>.
- Institute organizes awareness / counseling workshops for admission process to 12th appearing students and their parents, faculties and stakeholders.

Transparency

- Transparency is maintained throughout the admission process. The admission process is strictly controlled by DTE, Maharashtra State.
- Students can fill up both, the choice of courses and college code, by on-line counseling process followed by online registration.
- DTE has prepared state level merit list. Admission process is strictly through this merit list.
- The institute strictly follows rules and regulations regarding admissions of UG and PG courses prescribed by the state government and the Savitribai Phule Pune University, Pune.

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.

- The procedure of filling application forms to appear for government entrance examinations (like CET, AIEE and JEE Mains) starts after completion of HSC examination (10+2) at the junior colleges. The admission process generally starts immediately after declaration of results of HSC (10+2) Examination & government entrance examinations results. Merit list is prepared by DTE Government of Maharashtra based on 50 % of (10+2) marks and 50 % of Government entrance test marks.
- The eligible candidates who seeking admission to engineering can apply against the notification of DTE Maharashtra state published in most of well known news papers, DTE website and / or directly apply to the institute of their choice to seek admission under management quota.

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

i. Eligibility Criteria:

Eligibility criteria for Maharashtra State Candidate and outside Maharashtra State Candidate for admission to first year of degree courses in Engineering / Technology

- The Candidate should be an Indian national and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Mathematics and Chemistry/Biotechnology /Biology/ Technical vocational subject.
- Secured minimum **50 % marks** (minimum **45 % marks**, in case of **Backward class categories** and Persons with Disability candidates belonging to Maharashtra State only) in the subjects Physics, Mathematics and Chemistry / Biotechnology / Biology / Technical Vocational subject added together.
- Obtained a positive Composite score i.e., marks obtained after adding 50% of JEE (Main) 2014 (Paper 1) marks and 50% of normalized Standard XII (Board or Equivalent Examination) marks in Physics, Chemistry and Mathematics.

ii. Eligibility Criteria for All India (Paper-I of JEE-2014 qualified) Candidates

- Candidate should be an Indian national and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Mathematics and Chemistry/Biotechnology /Biology/ Technical Vocational subject.
- Secured minimum 50 % marks (minimum 45 % marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the subjects Physics, Mathematics and Chemistry / Biotechnology / Biology / Technical Vocational subject added together.
- Obtained All India Rank in JEE (Main) 2014 (Paper 1) given by CBSE.

iii. Eligibility criteria of Candidates who have passed/passing Diploma in Engineering / Technology and seeking admission to First Year of Engineering / Technology in Unaided Institutes

- Diploma holders who have passed the Diploma course in Engineering / Technology with minimum of 50% marks (45 % marks, in case of backward class categories and Persons with Disability candidates belonging to Maharashtra State only) and medium of instruction as English from the AICTE approved diploma institutes affiliated to MSBTE (Maharashtra State Board of Technical Education).
- The institute strictly adheres in admission process to the norms, rules and regulations of DTE, Maharashtra Government and Savitribai Phule Pune University Pune.
- Following are the details of maximum and minimum marks at entry level for the last two academic years.

The comparison indicates higher cut off marks for all the courses in PDVVP COE A'nagar indicating that it is the preferred institute for the courses provided within the nearby area.

Academic Year 2011-12

Department	Padmashree Dr.Vithalrao Vikhe Patil College Of Engg Ahmednagar		G.H. Rasoni College of Engineering	
	Min	Max	Min	Max
Mechanical Engineering	48	108	25	74
Electronic & Telecommunication	40	85	19	55
Electrical Engineering	41	90	No Branch	
Civil Engineering	32	84	12	62
Instrumentation	18	71	No Branch	
Information Technology	23	87	No Branch	

Academic Year 2012-13

Department	Padmashri Dr.Vithalrao Vikhe Patil College of Engg Ahmednagar		G.H. Rasoni College of Engineering		Shri.Chhatrapati Shivaji Maharaj College of Engineering	
	Min	Max	Min	Max		
Mechanical Engineering	44	102	11	68	26	94
Electronic & Telecommunication	29	105	42	85	33	111
Electrical Engineering	46	123	No Branch		No Branch	
Civil Engineering	36	83	19	71	32	59
Instrumentation	11	80	No Branch		No Branch	
Information Technology	28	85	No Branch		No Branch	

Academic Year 2013-14

Department	Padmashri Dr.Vithalrao Vikhe Patil College of Engg Ahmednagar		G.H. Rasoni College of Engineering		Shri.Chhatrapati Shivaji Maharaj College of Engineering	
	Min	Max	Min	Max		
Mechanical Engineering	43	103	18	61	09	70
Electronic & Telecommunication	43	77	21	63	40	44
Electrical Engineering	37	89	No Branch		No Branch	
Civil Engineering	40	87	05	70	26	87
Instrumentation	05	70	No Branch		No Branch	
Information Technology	40	89	No Branch		No Branch	

Academic Year 2014-15

Department	Padmashri Dr.Vithalrao Vikhe Patil College of Engg Ahmednagar		G.H. Raison College of Engineering		Shri.Chhatrapati Shivaji Maharaj College of Engineering	
	Min	Max	Min	Max		
Mechanical Engineering	30.43	73.33	10.75	51.72	10.84	49.03
Electronic & Telecommunication	22.54	50.52				
Electrical Engineering	24.59	62.83	No Branch		No Branch	
Civil Engineering	25.74	72.72	7.91	55.04	10.02	49.46
Instrumentation	Br. Closed		No Branch		No Branch	
Information Technology	19.93	54.84	No Branch		No Branch	

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.

Mechanism to review the admission process and student profile:

- **Admission process:** No need to review the admission process as engineering admission process is governed by DTE, Maharashtra State through Central Admission Process (CAP).

Student profile: Institute also takes efforts on admitted students by continuous monitoring the performance of every student. The performance checked by continuous assessment of the student. Also Tutor and Mentor system is adopted for solving the academic and non academic difficulties. Feedback is taken regarding the basic needs and kind of environment preferred to improve academic and non academic qualities. This process helps in reducing the gaps in teaching learning and increases the student's satisfaction.

Outcome: As a result of this process, in the last five years, the college has observed a sharp rise in the number of admissions.

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**
- Institute follows all the rules and regulations of SPPU Pune, State Government of Maharashtra and Government of India in admission process in this regards, as follows,
- SC/ST :20 %
- OBC:19 %
- Women:33 %
- Differently abled : --%
- Economically weaker sections:-- %
- Minority community :--%
- Any other : --%

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 admission process is governed by DTE, Maharashtra State through Central Admission Process (CAP) for all engineering institutes in Maharashtra. It is observed from admission statistics of previous years that, trend shows the fluctuations in the number of student admitted and quality of students.

Following table shows total number of students admitted for last four years.

Programme	2014-15	2013-14	2012-13	2011-12
U.G.				
Civil Engineering	64	64	63	64
Electronics & Tele Engg.	49	105	123	122
Mechanical Engg.	125	127	127	127
Instrumentation & Control Engg.	--	22	35	50
Electrical Engineering	63	59	64	62
Information Technology	45	54	59	59
Direct Second Year Civil Engg.	60	60	60	---
Direct Second Year Mech. Engg.	60	60	---	---
P.G.				
Civil Engineering (Structural Engg.)	24	20	15	15
Mechanical Engg (Design Engg.)	24	24	24	--

Reasons for increase / decrease in intake capacity:

- In Mechanical, Electrical, and Civil Engg. courses admissions are almost constant in last four years.

- In E& TC, IT, Instrumentation & Control Engg. courses number of admissions decreasing every year due to the industry trends, market position and economic trends in national as well as international domain.
- In last four years, number of admissions of Instrumentation & Control Engg. Course has suddenly decreased may be due to less awareness of the course as well as recession in industries.
- In E&TC course, number of admissions has reduced drastically in previous year may be due to increase of number of institutes running the same course in catchment area like Ahmednagar, Aurangabad ,Beed , Nashik, Pune ,Dhule, Jalgaon ,Thane Districts and recession in industries.
- Number of admissions in IT course slightly decreasing in last four years because of recession in national and international IT industries.

Actions initiated for improvement:

- Institute is organizing various activities for Higher Secondary Schools students like Technokraze in college campus so that students get acquainted with the facilities, infrastructure and faculties available in the college.
- Institute is organizing various activities for final year diploma students like Techmaniya, Technoexcellence and Technoquiz in college campus so that students get acquainted with the facilities, infrastructure and faculties available in the college.
- The college conducts presentations in Higher Secondary Schools & Diploma Colleges in catchment areas.
- Institute provides various facilities to the students seeking admission to engineering courses like counseling before and during admission, form filling assistant during CAP.
- Institute uses various Medias for advertisements like leading news papers, FM radio, cable networks on TVs, website and social networking sites etc.
- Distribution of information brochures & hand bills to the parents of the students appearing for JEE, AIEEE & CET at these exam centers.
- Display boards of college admission at various public places like bus stand, railway stations, schools etc.
- Institute putting efforts through personal contacts to improve admissions.

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?

For students diversity the Institute follows the norms and policies of government, AICTE, DTE, SPPU. For the academic weaker students institute arranges extra classes, personnel guidance and counseling by the mentors. Also for the financial weaker students institutes run university earn and learn scheme and free books from library.

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.

- Before commencement of the programme, Institute has organizing various activities for Higher Secondary Schools students like Technokraze in college campus so that students get acquainted with the facilities, infrastructure and faculties available in the college.
- Institute interacts with the student's to assess their needs in terms of knowledge and skill.
- Institute is organizing various activities for final year diploma students like Techmaniya, Technoexcellence and Technoquiz in college campus so that students get acquainted with the facilities, infrastructure and faculties available in the college.
- Presentation related to the institute is given to the students. The faculties of respective departments gives the information about the infrastructure and facilities of the department, also gives overall idea about the programme.

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?

The strategies adopted by the institute to bridge the knowledge gap of the newly enrolled students in their respective course, institute conducts the following Bridge/Remedial/Add-on/Enrichment Courses:

- Institute conducts remedial classes for low merit enrolled students.
- For bridging the knowledge gap of the enrolled students, institute arranges expert lectures.
- Institute arranges industrial/study visits.
- Institute arranges various workshops, seminars, training programs etc.

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

- Institute adopts equality in the policies, religious aspects for all stake holders.
- Institute maintains the gender equality in all aspects.
- Women Grievances Redressal Cell is established to resolve Women Grievances.

- Reservation Grievances committee is established to resolve reservation grievances.
- For disable students certain facilities are provided like PH toilet, wheel chair etc.
- Healthy atmosphere is maintained in the campus by celebrating various activities like teachers Day, Independence Day, Republic Day, Engineers Day, Women's empowerment etc.

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

- The institute central library subscribes various e-journals, e-Books and journals for advanced learning.
- Institute arranges aptitude tests, GD and extra coaching for GATE.
- The institute organizes various competitions, events such as Techmaniya, Technoexcellence and Technoquiz.
- Students are encouraged to participate in co-curricular and extracurricular activities in other institutes.
- Institute arranges various guest lecturers of resource persons from industries and academic institution on the advanced topics.
- Institute awards following prizes to the students ,

Academic Prizes

Sr. No.	Particulars
1	1 st Rank in Final year in all courses
2	1 st Rank in Third year in all courses
3	1 st Rank in second year in all courses
4	1 st Rank in first year engineering
5	Best Outgoing Engineer
6	Best Outgoing Engineer (Girl)
7	Best Sportsman

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)?

- Earn and learn scheme and Book bank facility are provided for economically weaker students.
- Institute has implemented tutor systems through which academically weaker students are identified and mentoring is done.
- Institute has adopted, implemented TFWS scheme for economically weaker and meritorious students.
- Institute provides all supporting documents and help for education loan purpose to economically weaker students.
- Provision of Writer for Physically Challenged students during examinations.

2.3 Teaching- Learning Process

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

The teaching, learning and evaluation schedule is well planned and organized in the following ways:

Academic Calendar:

- The academic calendar of Savitribai Phule Pune University, Pune is followed strictly by the institute.
- Every department prior to the start of new semester conduct the meeting regarding various activities like workload distribution, time tables and academic calendar of the department.
- College office prepares the academic calendar of the institute. All time tables are displayed on the departmental notice boards at the start of semester.

Teaching plan:

- All faculties prepare course file, lesson plan & get approved from HOD.
- The course file contains University syllabus, lesson plan, unit wise notes, titles of reference and text books, web portal addresses, unit wise university examination questions asked in previous examinations, university question papers with solutions etc.

Evaluation Blue Print:

By Institute:

- The evaluation process is strictly carried out as per the norms of Savitribai Phule Pune University, Pune.
- The faculty conducts assignments, class tests, online exams, in-sem, preliminary and term-end examinations, seminars and evaluation of practical records as per blue print prepared by the university, institute and various departments.
- Academic monitoring committee is constituted to monitor academic activities and correlate it with academic plan.
- Continuous assessment process is carried out for assessment of term work. The assessment is done on the basis of timely submission, quality of journal, content of submission, level of understanding, percentage of attendance, class test performance etc.

By University:

- Revaluation and rechecking facilities are available for theory exams at university.
- Final year student's project exam is evaluated on the basis of reviews. In first semester two reviews are to be taken and evaluated for total 30 marks (15 marks each) In semester two, two reviews are to be taken for total 30 marks (15 marks each) The final presentation shall be taken in front of external

examiner and to be evaluated for 40 marks (10 marks for presentation for group, 15 marks for quality of the project work. 15 marks for quality of the project report).

- Oral Examination shall be conducted with final presentation of the project. The distribution of marks shall be 15 marks for contribution of the student in the project work 15 marks shall be awarded for achieving the objectives of the project set forth. 20 marks for Question/ Answer.
- Individual seminar work is evaluated for 50 marks. (seminar reviews for 10 marks, seminar report 15 marks, presentation 15 marks and question / ans. 10 marks)
- Theory papers, practical and orals are evaluated as per university procedure.

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

- Institute constitutes Academic Monitoring Committee (AMC) to improve academics of the institution.
- **Goals of Academic monitoring system:** - - Improve the quality education with the regular, effective teaching and learning process with the help of following parameters.
 1. Teaching aids
 2. Individual attention for the students by the respective faculty.
 3. Depth of teaching and understanding for the students with the help of technical discussion.
 4. Discussion with the help of reference books and magazines related to syllabus framed by the university.
- **Usual Practice:-**
 1. Surprise visit in the classes (theory and practicals)
 2. Conducting the meetings with students of all departments and discussing their difficulties.
 3. AMC reports to head of the departments and head of institute for necessary action and improvement.
 4. Conducting the meetings of each department in order to motivate and realize the responsibilities of the faculty from the academic point of view.
- **Evidence and success:** -
 1. Attendance of the students is improved.
 2. Discipline is improved.
 3. Passing percentage of students is improved.
 4. Improvement in academic environment.

2.3.3 How learning is 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?

Following are the activities organized for students to make learning more students centric:

- The institution has well equipped laboratories to impart practical knowledge to the students.
- The institute has well furnished seminar hall for Group Discussions, Debates, workshops, training and placement etc.
- The institution has well equipped gymkhana/Multipurpose Hall.
- The institution has well equipped central computing facility having 100 computers with latest configurations and softwares. Also all departments have their separate computer labs as per student strength and university curriculum.

A: Independent learning

- The institution has central library with sufficient titles and volumes for all courses along with e-journals, journals, periodicals and digital library with all reprographic facilities to provide comprehensive and latest information to the students.
- Central library has well furnished, A/C reading hall.
- The institution has Language laboratory facilities which enable students to prepare for competitive examinations like GATE, TOEFL and GRE etc.
- The institution has well equipped workshop with all sections like metal turning, machine, welding, cutting, sheet metal, carpentry, fitting, plastic moulding, casting and black smithy.

B: Collaborative learning:

- In final year project has to be completed by group of students.
- Students do the internship in different industries in vacation period.
- Students attend various certificate courses in institute in collaboration with industrial personals.
- Industrial visits/study tours are arranged.
- Students attend /participate in competition like Avishkar, Techmaniya, Technoexcellence and Technoquiz.

C: Interactive learning:

- Institute has provided modern tools in class room teaching.
- All class rooms, Labs and seminars halls are prepared with green/white-board, LCD projectors, OHP and CCTV cameras. Department wise information is as follows:

Type of Teaching aids	Department							
	Mech	Civil	E-cal	E&TC	I.T.	Instru.	Engg.Sc.	Workshop
Green Board	12	12	06	13	03	09	02	04
White Board	04	01	04	03	04	01	--	--
LCD Projector	04	03	02	02	02	01	--	--
OHP	03	02	02	02	02	02	--	--
Charts	133	31	14	10	22	--	07	05

- Faculty cabins are equipped with modern furniture, computer with internet facility. These cabins are utilized for student counseling and discussion. Department wise information is tabulated below.

Number of faculty cabins available	Department							
	Mech.	Civil.	E-cal	E&TC	I.T.	Instru.	Engg. Sc.	Workshop
	33	14	13	12	09	10	07	01

➤ **Seminar halls and tutorial rooms**

	Department					
	Mech	Civil	E-cal	E&TC	I.T.	Instru.
Number of tutorial rooms (with seating capacity)	1 (60)	1 (60)	1 (30)	02 (20)	1 (60)	01 (36)
Number of seminar halls (with seating capacity)	1 (60)	1 (60)	1 (100)	01 (100)	01 (100)	1 (60)

D: Providing computers with relative accessories and aggregates for web based learning (self-learning)

All departments have computers and relative accessories which are required in teaching learning process.

Details are as below;

Specifications	Department								
	Mech	Civil	E&T C	Elect	IT	Instru .	Engg. Sci.	Central Computer Lab.	Lang. Lab
Computers	140	101	98	55	120	51	03	100	20
Printers	10	07	11	08	08	08	03	04	00
LCD projector	04	02	02	02	02	02	00	01	00
Scanner	01	03	03	02	02	01	00	01	00

Institute has Internet with Wi-Fi facility (32 Mbps)

E: Promoting students for self-learning

Facilities for self- learning are available in the institute are:

- The institute has Central Computer facility with 100 computers with internet to promote and motivate students for self-learning.
- Institute has Digital library facility.
- Institute has separate Language laboratory with 20 computers with internet facility.
- Motivating students for paper presentation and project exhibitions at different levels and conferences.

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?

- Interested students in R&D work are guided and encouraged. They are motivated to participate and

present their work in different technical events like project competition/seminar/conference/workshops at national and international levels and to publish their work in national/international journals and seminar/conference proceedings.

- Interest of the students in research is created through seminar and project work.
- Provision and motivation to students undergo vocational training during vacation to handle the actual problems of the industries.
- Students are being advised to prepare for competitive exams like GATE, GRE, IELTS, TOFFEL etc to continue their study and research activities.

2.3.5. What are the technologies and facilities available and used by the faculty for effective teaching?

E.g.: 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.

The following technologies and facilities available and used by the faculty:

- Computers with internet facility in all departments
- Institute has Internet with Wi-Fi facility (32 Mbps)
- E-Library
- Interactive Board Classroom
- NPTEL Videos
- Research papers and Journals
- Language laboratory

Digital Library Facilities:

A. Online full-text electronic resources:

Sr. No.	Online digital journal	No of Online digital journal
1.	IEEE	145+conference proceeding.
2.	ASME	25
3.	ASCE	33
4.	Science Direct	275
5.	Springer	149
6.	DELNET	500+
	Total	1127+

B. NPTEL- National program on technical enhancement learning- IIT video lecture series available on library server.

- E- Learning CD's
- Magazine CD,s and DVDs - 150
- Book CD,s and DVDs -1143

Sr. No.	Name of the subject	Titles	Volumes
B.E(UG)			
1.	Mechanical	2940	7853
2.	Civil	4078	7878
3.	E&Tc	2707	7319
4.	Electrical	1248	3452
5.	IT	2166	6383
6.	Instrumentation	756	2123
7.	ME(PG) Mechanical Design Engg	173	535
8.	ME(PG) Civil Structure	355	923
9	General	838	938
10	Humanities and Science	1308	4436

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

The institute has arranged vocational training, expert lectures, seminar, workshops etc. to the faculties and students for updating their knowledge and skills.

Vocational Training for Third Year Students:

Programme	2014-15	2013-14	2012-13	2011-12
Civil Engineering	00	00	00	00
Electronics & Tele Engg.	00	00	00	00
Mechanical Engg.	07	04	01	04
Instrumentation & Control Engg.	05	05	11	16
Electrical Engineering	00	00	00	00
Information Technology	00	00	00	00

Training programme/workshops conducted for no. of students:

Programme	2014-15	2013-14	2012-13	2011-12
Civil Engineering	01	01	01	01
Electronics & Tele Engg.	01	00	02	02
Mechanical Engg.	01	00	00	00
Instrumentation & Control Engg.	00	01	01	01
Electrical Engineering	01	00	00	01
Information Technology	05	04	04	02

Expert Lectures arranged for students:

Programme	2014-15	2013-14	2012-13	2011-12
Civil Engineering	03	04	04	02
Electronics & Tele Engg.	00	01	00	03
Mechanical Engg.	02	02	01	02
Instrumentation & Control Engg.	01	01	03	02
Electrical Engineering	02	02	00	03
Information Technology	04	05	04	07

Industrial Visits:

Programme	2014-15	2013-14	2012-13	2011-12
Civil Engineering	06	04	11	06
Electronics & Tele Engg.	03	03	03	01
Mechanical Engg.	04	04	05	05
Instrumentation & Control Engg.	01	01	01	00
Electrical Engineering	05	00	03	07
Information Technology	03	02	02	02

Short Term Courses arranged for Faculty:

Programme	2014-15	2013-14	2012-13	2011-12
Civil Engineering	00	00	00	00
Electronics & Tele Engg.	00	00	00	00
Mechanical Engg.	01	01	00	00
Instrumentation & Control Engg.	00	00	00	00
Electrical Engineering	00	00	00	00
Information Technology	00	08	04	02

Conferences/ Workshops Attended By Faculty:

Programme	2014-15	2013-14	2012-13	2011-12
Civil Engineering	22	08	09	12
Electronics & Tele Engg.	16	13	05	04
Mechanical Engg.	49	10	13	24
Instrumentation & Control Engg.	05	01	04	09
Electrical Engineering	12	11	08	09
Information Technology	00	00	00	01

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?

The institute has developed a unique mentoring system. Under this system for every class (from FE TO BE) one faculty member is assigned as class teacher and three faculty members are assigned as tutors. The class teacher and tutors counsels each student of his/her group/batch regarding academic, personal and other problems. A progress report regarding performance of the students in the class test and other examinations and attendance in the ongoing semester is periodically sent to the parents. Slow learners are identified and are given counseling/academic advice. Critical cases are discussed with class teacher, HOD, Principal and parents. This monitoring system is made more effective with use of students and gives the information to the parents about their performance and attendance. The training & placement cell imparts and facilitate soft skill / aptitude training and also counseling with respect to the placement opportunities for all students. Needy students are given financial assistance through earn and learn scheme.

Each faculty is responsible for all round development of approximately 20 students. Medical facilities are provided to the students at free of cost by the hospital of the institute.

For any academic problems to student while studying, tutor/class teachers are provided help for finding the solution. Suggestion boxes are also provided for anonymous advices and complaints.

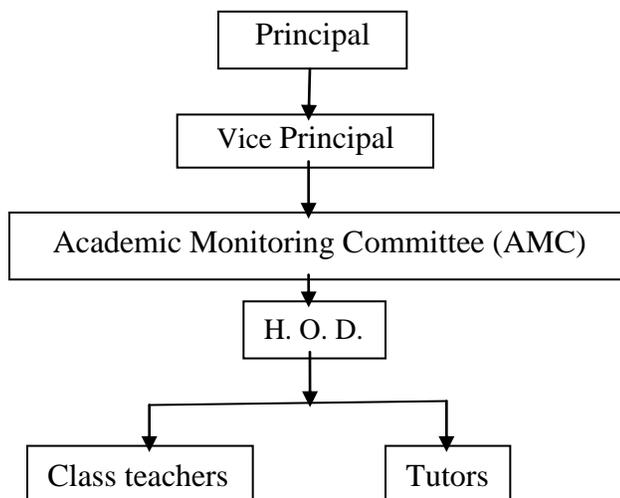


Fig. no. 2.3.7.1: Flow chart of academic monitoring

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?

- a) Faculty members are continuously doing the research and experiments to develop novel teaching

methodologies. Some of the methods adopted are:

- Difficult concepts are taught through ppt, animations and audio visual aids.
- Finding curriculum gap from university syllabus and bridge it in curriculum.
- Providing industrial exposure to the students through industrial visits, study visits and visits at different projects.
- Permitting students for industrial training during vacation.
- Subscribing important e-journals for all discipline to impart current technologies, methods etc.
- Students are encouraged for different seminars, workshops, paper presentation, research project, technical exhibitions etc. through financial assistant by institute.
- Academic calendar are displayed at the departmental notice board.
- Arranging expert lectures/guest lectures on different topics like anti ranging, women empowerment, soft skill etc.
- Institute has provided Intel test software free of cost to attends the mock on line test before University online examination to all FE & SE students.

b) Institute always motivates the faculties to adopt and use new techniques and tools in teaching for betterment of students learning. Some of the facilities provided are,

- LCD projectors in classrooms.
- OHP in the classrooms
- Sponsorship/ sabbatical leave for higher education.
- Licensed software packages.

c) The impact of such innovative practices

It helped in increasing the performances of students in theory, oral and online examinations. It has also culminated into improved university examination results of the students.

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

The institute provided the library facilities for regular studies, projects and research. Library resources are augmented to enhance teaching-learning process through,

- Institute library provides the books in bar coded and books transaction is carried with computerized system.
- Open Public Access Catalog (OPAC) facility is available. This helps to users to find out the availability of necessary books. Users can find books by author name, subject name. Also they can see books issued to them.
- Reprographic services like xerox machines, scanner, printer, camera etc. are available in the library for the users to make photocopy of study material.
- In addition to curriculum books library have daily newspapers, magazines, periodicals, national and

international journals, e-journals for curricular and extracurricular activities.

- Library has LAN and broadband internet facilities. Users can use these facility to access journal papers, study material through digital library.
- Library has AC reading hall open beyond college hours.

3) **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 challenges influence because of the following reasons.

Institute often lag behind the completion of syllabus within stipulated time frame due to unexpected holidays such as extra industrial visits, workshop for students, accidental death of any stake holder of the institute, etc.

The second main challenge we encounter to complete the syllabus within the planned time frame is with the numerical and design based courses. Faculties conduct extra classes to solve more numerical for better understanding of the design principles of respective courses.

How does the institute overcome?

To overcome the missing classes & labs during unexpected holidays which effects on the completing the curriculum at prescribed time frame, institute have kept all even Saturday working in our curriculum calendar. The respective faculties who have missed the classes & labs during unexpected holidays plans for classes & labs to complete the syllabus within scheduled time frame.

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

For Monitoring teaching learning processes following measures are taken.

- The Principal personally monitor theory lectures and practicals.
- The institute constituted Academic Monitoring committee for continuous monitoring of teaching. The committee member frequently visits during class and lab hours to check teaching activity.
- Two class tests, one mid-term test, assignments, module tests, viva, mock online test etc. are conducted at regular intervals and analyzed and discussed to improve quality of teaching-learning.
- As institute affiliated to Savitribai Phule Pune University, Pune, examinations are conducted by affiliating university; their results are analyzed twice in year.
- The institute takes feed-back from all stakeholders and implementing suggestions as per to enhance teaching learning activity.
- Every semester the institute collects the student's feedback twice and higher authorities take corrective action for the betterment of teaching –learning process.
- Institute management takes academic progress review at the end of every semester to improve quality of learning.

- The institute has undergone the process of NBA Accreditation to reduce the non-confirmative in quality of teaching-learning process.

2.4. Teachers Quality

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

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
Ph.D.	03	--	--	--	02	--	05
M.E / M. Phil.	01	--	07	04	28	11	51
BE	--	--	--	--	05	02	07
Temporary teachers							
Ph.D.	--	--	--	--	--	--	--
M.E. / M. Phil.	--	--	--	--	11	10	21
BE	--	--	--	--	23	12	36
Part-time teachers							
Ph.D.	--	--	--	--	--	--	--
M. Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	--	--

Strategies adopted by the institute for recruitment of its human resource:

The institute follows all the rules and regulations of AICTE & Savitribai Phule Pune University Pune for recruitment of Principal, Librarian, Physical director and Teaching faculty.

Selection of all temporary, adhoc, technical and non-teaching staff is based on the recommendations of the institute/local staff selection committee duly formed by governing body from time to time. All recruitments are done as per the rules and regulations of AICTE & Savitribai Phule Pune University Pune considering qualifications, merit and experience.

Strategies adopted by the institute for retention of its human resource:

Institute provides certain facilities for retention of its human resource like study leave for higher education, timely promotions, incentives, accommodation in the campus, free Wi-Fi facility, financial assistance to attend the workshop/seminar/conferences/paper publication in national and international journals, transportation facility for the faculty etc.

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.

- Whenever required institute recruit qualified and senior faculty, through institute/university procedure.
- Institute inviting senior professors / industry experts as visiting faculty to teach new programmes and to open innovative ideas and modern subjects whenever required.
- The institute deputed the faculty members to attend the various workshops, seminar and conferences on latest topics and emerging areas.

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.

a) Staff development programmes attended by faculty members:

No.	Academic Staff Development Program	2014-15	2013-14	2012-13	2011-12
1	Refresher courses	--	--	--	--
2	Orientation programmes	01	02	02	01
3	Staff training conducted by the university	05	10	02	04
4	Staff training conducted by other institutions	00	02	02	03
5	Summer / winter schools, workshops, etc.	15	12	18	22

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

- 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

➤ **Teaching learning methods/approaches:**

Institute arranges FDP, various courses to develop and improve teaching learning methodologies. The college organizes programmes to encourage faculties, to prepare computer aided teaching / learning

materials.

➤ **Handling new curriculum**

Institute has deputed the faculty members to attend the workshops which arranged for adopting the new techniques and methodologies for newly framed syllabi.

➤ **Content/knowledge management**

Institute has deputed the faculty members to attend the national & international conferences/seminars/workshops/industrial visits and the various training programmes which help largely to update their knowledge.

➤ **Selection, development and use of enrichment materials**

Institute has arranges seminars, workshops to enrich all practices and aspects of teaching and learning process. Institute has deputed the faculty members to various institutes as resource persons in national and international conferences/seminars/workshops.

➤ **Assessment**

Yearly assessment of each staff is done by the committee constituted by the institute for annual increments and promotions if any. Feedback from students is also used to assess the faculty performance. Result analysis of faculty is done at departmental level.

➤ **Cross cutting issues**

Institute has arranges meetings, seminars, expert lectures and workshops to exchange knowledge and experience to bring awareness about the gender equality, empowerment & upliftment of women and upliftment of socially and economically weaker stakeholders.

➤ **Audio Visual Aids/multimedia**

Faculty members use audio visual aids and multimedia in the class like OHP, LCD projector, charts, models, videos etc. for making teaching learning process comfortable.

➤ **Open Educational Resources**

Institute has give the facility of open educational resources like online tests, software, course materials, e-books, streaming videos, e-journals, magazines, periodicals and other tools, materials or techniques used to support access the knowledge for faculty members.

➤ **Teaching learning material development, selection and use**

Free access of internet facility is available to faculty members to develop the Teaching learning materials. Institute has a well-stocked library with sufficient titles and volumes of reference and text books. Institute has deputed the faculty members to attend national and international conferences/seminars/workshops for developing the course materials.

c) Percentage of faculty

- Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies.

- participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies
- presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

Programme	2014-15	2013-14	2012-13	2011-12
Invited as resource persons in Workshops / Seminars / Conferences				
Civil	02	02	02	02
Electrical	03	01	02	01
E&TC	01	01	01	02
Information Technology	01	02	02	01
Mechanical	03	02	02	01
Instrumentation & control engg.	01	02	03	01
Participated in external Workshops / Seminars / Conferences				
Civil	02	05	08	06
Electrical	03	04	02	02
E&TC	16	14	05	05
Information Technology	11	08	07	09
Mechanical	15	15	05	05
Instrumentation & control engg.	01	03	04	02
presented papers in Workshops / Seminars / Conferences				
Civil	02	05	15	07
Electrical	02	03	04	01
E&TC	05	10	04	03
Information Technology	03	04	02	03
Mechanical	10	05	05	02
Instrumentation & control engg.	01	01	02	02
Engg. Science	01	01	02	01

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

- The faculties are encouraged to complete their M.Tech and Ph.D.through study leave.
- Faculties are encouraged for getting various research projects grants by funding agencies like SPPU, AICTE etc.
- Institute arranges workshops, seminars, conferences and expert lectures.
- The faculties are encouraged to participate in various state,national, international conferences, seminars ,refresher , orientation, summer and winter school programmes.

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.

- The institute encourages faculties by providing facilities to participate in various institute /university /district /state /national/international events, where in faculties have received awards / recognition at the institute, university, state, national and international level.
- Following faculty members have been awarded for their contributions in various events.

no.	Name of the faculty	Event	Award / Honor	Level	Year
1.	Prof. M.G. Unde	National conference	Best paper Presentation	National	2011
2.	Prof. U. R. Kawade	Engineers Day	Lady Engineer	National	2012
3.	Prof. K. B. Kale	Engineers Day	Engineering Achievement	National	2013
4.	Prof. P. A. Narwade		Special contribution for Entrepreneurship	State	2015
5.	Prof. P.G. Kalawade	International conference	Best paper Presentation	International	2015

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?

- Yes, institute evaluates teachers through offline Feedback system every semester. Institute has a standard feedback format for evaluation. Feedback is analyzed by concerned head of the department. Also instruction and counseling is done of the concerned teacher for improvement in the teaching learning process.

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?

Students ,faculties and parents who are the stakeholders of the institute are informed regarding the evaluation process priory through following means,

- Institute has standard academic calendar displayed in the beginning of semester for smooth working. Academic calendar includes curricular and co-curricular activities such as schedule of tests, preliminary exams(for F.E),mid sem exams , parent- teacher meet , provisional detention list, oral, practical, theory and online examination schedule etc.
- University academic calendar is also available on website of SPPU, Pune.
- Results and Attendance of students are informed to the parents.
- Information regarding revaluation and rechecking is also provided to the students (if required).
- Re test and remedial classes are arranged for academically weaker students for improvement of their performance.

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 of the university that the institution has adopted are as follows:

University Reforms:

- Online examination for F.E and S.E.
- In sem examination for T.E, B.E. and M.E.
- Oral /Practical/Term Work examination for S.E to M.E.
- Term Work/Tutorials for F.E.
- Offline examination for F.E to M.E.
- Seminars /Projects/Mini Projects for T.E/B.E/M.E.

Institute Reforms:

- Assignments and Tutorials on each unit prescribed in the university syllabus
- Unit wise class test
- Preliminary examination
- Mock oral and online test

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?

By the University:

- Institute conducts all university examinations for all programmes as per the rules and regulations of SPPU, Pune.

By the institution:

- The institution ensure effective implementation of the evaluation as per academic calendar

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

Every student's achievement and performance is monitored by the tutor, class teacher and HOD. The academic performance of every student is measured through class tests. Following different methods are used for formative and summative assessment of the students.

Formative Assessment:

1. Advanced training sessions like soft skills.
2. Quiz, cultural and debates competitions
3. Group discussion
4. Seminars/ presentations

Summative Assessment:

1. Tutorials
2. Assignments
3. Class Tests like mid semester, preliminary, unit test

Few sample examples are:

1. To enhance the students' confidence and to achieve good results retests are conducted for the students if their performance is not satisfactory in the test.
2. As the internal assessment system contains internal marks for attendance so students become more serious to attend regular classes.
3. Students are encouraged and appreciated by giving academic prizes by the institute for their academic excellence.

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

Complete transparency is maintained in the internal assessment of term work. A continuous assessment is done and internal marks are given to students on the basis of student's involvement and understanding of concept, final result of experiments, quality of journal, theory attendance, practical attendance, internal test marks, etc. Institute format for internal assessment of TW/PR is given below:

Sr. No.	Name of student	Exam seat no.	Exp./ Drawing sheet	Total	Scaled marks	Theory atted.	Prac. atted	Test marks	Total marks	Scaled total marks	Remark
		Max. Marks→			60	10	10	20	100	25/50	
		Date→									

- Marks distribution for theory/practical attendance,

% Attendance	Theory	Practical
Above 80%	10	10
70-79%	08	07
60-69%	06	04
50-59%	03	00
Below 50%	00	00

Marks of TW are displayed on notice board.

2.5.6. What are the graduates attributes specified by the institute/ affiliating university? How does the institute ensure the attainment of these by the students?

Graduates attributes specified by governing bodies like AICTE, NBA, DTE, SPPU Pune, etc. are considered as guidelines and implemented for development of students.

Graduates attributes are discussed with internal and external stakeholders and followed by the institute for different engineering programmes.

Few are as follows;

- (i) Capability to communicate fluently and effectively.
- (ii) Capability to use and apply knowledge of basic sciences like mathematics, physics and chemistry.
- (iii) Capability to identify, classify solve engineering problems preferentially.
- (iv) Capability to design and conduct experiments on problems, to analyze and interpret data and drawing conclusion.
- (v) Capability to design a method, its components, assemblage to fulfill the required needs of the society.
- (vi) An understanding of various responsibilities like ethical and professional.
- (vii) Capability to work with multi disciplinary teams
- (viii) Capability to engage in lifelong learning.
- (ix) Capability to use the techniques, tools, skills required for engg. programmes etc.

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

The redressal of grievances regarding evaluation at the institute and University level for various examinations is as under:

- No redressal of grievances facility is available for online exam because it is done by computer/software.
- The subject teacher evaluates the students TW/PR by referring institute format for internal assessment of TW/PR. The mechanism is transparent & marks are assigned to the experiment regularly in presence of

student. Student signs on the documents of internal assessment.

- For the grievances against the university theory results (if any) reevaluation and rechecking facility is available in the SPPU Pune. The schedule of the same is informed to the students time to time and interested students act accordingly and avail this facility.

2.6. Student performance and Learning Outcomes

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

YES, Institute has clearly stated and well defined learning outcomes .

- The learning outcomes are notified by circulars, academic calendar etc.
- Learning outcomes are displayed in the departmental notice board.

Students Awareness:

(POs) and (PEO's) are displayed on departmental and laboratories notice boards.

Staff Awareness:

Learning outcomes are informed to faculty through circulars and conducted various faculty development workshops, programs, seminars etc.

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 student results / achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes / courses offered.

• Monitoring the progress and performance of students:

- Regular attendance of the students is recorded at end of each theory/practical class. Students and parents are informed about the attendance at the end of each month.
- The progress and performance of the students is evaluated regularly by conducting class tests, assignments.
- Head of the Department reviews the academic progress, results, attendance of the students.
- Practical, oral, online, in-semester and theory examinations are conducted as per SPPU Pune.
- University exam result analysis is done and personal guidance is provided for the students whose performance is poor.
- Academic Monitoring Committee headed by coordinator reviews the academic progress of the institute and suggests measures to improve it.

• Communicating the progress and performance of students:

- A student whose performance is below average in the exam is counseled by the concerned tutors / student welfare committee.

- Result of student is communicated to the parents by the concerned tutors.
- Attendance of the student is conveyed to the parents by the concerned tutors.

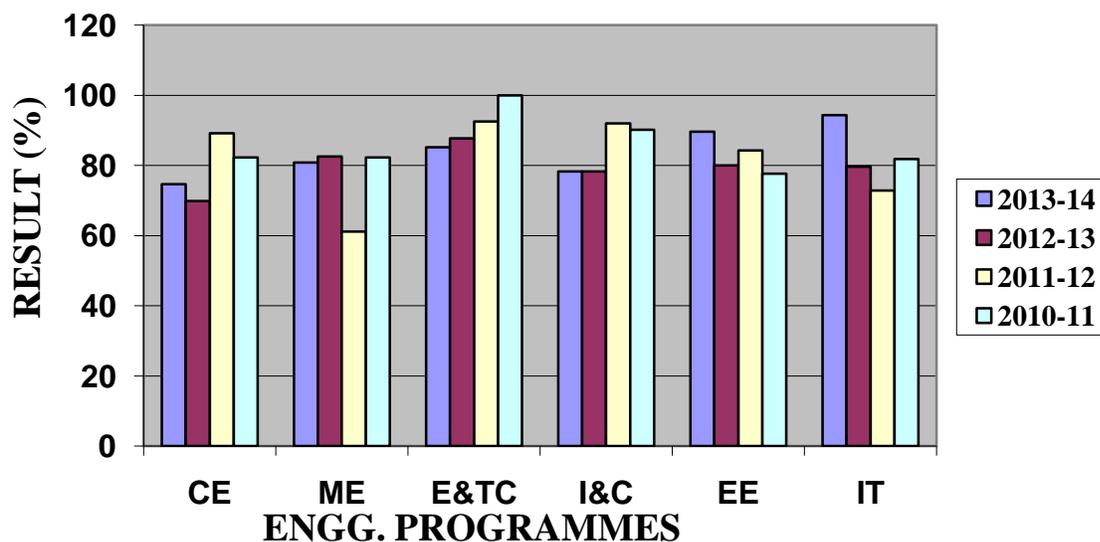
Result Analysis: Pass Percentage (%) Final Year

Under Graduates (B.E)

Table no: 2.6.2.1 : Pass Percentage (%) Final Year

Courses	2013-2014	2012-2013	2011-2012	2010-2011
Civil Engineering	74.66	69.81	89.18	92.85
Mechanical Engineering	80.86	82.53	61.11	82.29
Electronics and Telecommunication	85.18	87.73	92.53	100.00
Instrumentation & Control	78.26	91.93	90.16	90.56
Electrical Engineering	89.65	80.00	84.28	77.61
Information Technology	94.36	79.62	72.83	81.81

Final Year Result Analysis for Last Four Academic Years



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

- Before commencement of the semester, the teaching plan and lesson plan are prepared by the faculty and it is implemented throughout the semester as per academic calendar. It is monitored by HOD, Academic monitoring committee and Principal.
- The progress and performance of the students is evaluated regularly by conducting class tests, assignments. For students with poor performance, remedial classes and re-test are conducted.

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?

- Training and placement department conducts different training programs to enhance employability of students.
- Entrepreneurship Development Cell provide guidance and motivates students for entrepreneurship.
- Institute motivates faculty and students to get actively involved in research projects. It also helps the faculty to apply for research projects funded by professional bodies like AICTE, DST, UGC and BCUD.
- Institute also encourage and guided to the students to participate and perform in various workshop, conferences, paper presentation at different level.
- Institute also provides training of software like AUTOCAD, CATIA, MAT-LAB, E-TAB and STADD
- To understand the concept of theory and practical each department conducted Industrial visits which beneficial to understand core knowledge of particular subject and developing ideas regarding entrepreneurship.
- Institute conduct the Educational fair and NSS activities.

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?

- The institution collect and analyze data on student performance by following methods:
 - The Institute conducts different exams like, class tests, mock online test, online Phase I and Phase II university examination for F.E. and S.E. students. Preliminary exam for F.E, in semester University examination for third year students. Seminar / Projects presentation for T.E. and B.E Students, end semester offline / theory exam for F.E. to B.E. students.
 - Continuous Assessment of term work.
 - University practical and oral examination.
 - Rechecking and revaluation facility for university theory papers is available for the students if required.
 - Result analysis of above exams for all classes and subject wise is carried out and analyze for grading and performance of the students and accordingly students are guided.
- To overcome barriers of teaching and learning process various methodologies are adopted by the Institute like,
 - Counseling of the students by the respective tutors, class teachers, and HODs to improve their academic performance.
 - Institute run Earn and learn scheme fully supported by university for needy students.
 - The feedbacks are taken from the students and same data is utilized for the improvement and further

- planning of the teaching learning process.
- Technical visits are arranged in different Industries / sites/ plants to impart core knowledge of the subject and visualize the concept of theory and practical to the students.
 - IIT Lectures Videos are shown to the students to understand basic concepts of subjects.
 - Arranging expert lectures by expert from industries and educational institutes.
 - Tutorial classes are arranged for F.E.and S.E. weaker students for some subjects.

2.6.6. How does the institution monitor and ensure the achievement of learning outcomes?

- Institute has academic monitoring committee to check the planning and effective execution of teaching learning process.
- Institute prepare academic calendar in the beginning of semester for smooth working. Academic calendar includes curricular and co-curricular activities such as schedule of tests, expert lectures, parent- teacher meet , provisional detention list, oral, practical, theory and online examination schedule etc.
- Surprise monitoring by the HOD and Head of the Institute.
- To ensure the achievement of learning outcomes, institute analyze the results of examinations for all classes,subject wise and faculty wise for grading and performance of the students.
- Training and placement cell collects the data regarding placements of the students in various sectors such as government , semi government , privates, in India and aboard etc

2.6.7 Does the institution and individual teacher 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 institute would like to include.

Yes, the institute and almost all teachers use assessment/ evaluation outcomes as an indicator for evaluating student’s performance, achievement of learning objectives and planning.

As evaluation is the continuous process which is carried out for every programme and various activities related to this are discussed in departmental meetings.

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?

No

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, the institution has a research committee to monitor and address the issues of research. The composition of the committee is listed below.

Research Committee:

Name of Faculty	Department	Designation
Dr. H.N.Kudal	Mechanical Engineering	Principal & Chairman
Dr.K.B.Kale	Mechanical Engineering	Vice Principal & HOD(Mech.), Member
Dr.S.C.Burse	Mechanical Engineering	Professor & Member
Dr.A.J.Shirke	Civil Engineering	Asst. Professor & Coordinator, Member
Prof. M.G.Unde	Electrical Engineering	Professor & HOD(Electrical),Member
Prof. S.S.Magar	Electronics & Telecom Engg.	Asso. Porfessor& HOD(E&T/C), Member
Prof. U.R.Kawade	Civil Engineering	Asso. Professor & HOD(Civil), Member
Prof. A.R.Laware	Instrumentation Engineering	Asso. Professor & HOD(Instru), Member
Prof. D.A.Vidate	Information Tech.	Asso.Professor& HOD(IT),Member

Some recommendations of the research committee are:-

- Increase the number of research publication.
- Raising funds for research from different funding agencies.
- Organize more seminars/conferences/workshops.
- Motivate students to participate in research activities and publish papers.

Impact of the Recommendations of Research Committee:

The publications by the faculty members in national/international journals and conferences have increased.

Academic Year	2011-12	2012-13	2013-14	2014-15
Applied Science Dept	1	2	4	5
Department of Civil Engineering	09	06	09	NIL
Department of Electrical Engineering	09	07	02	`03
Department of Electronics and Telecommunication	04	05	13	16
Department of Instrumentation and Control	01	01	01	01
Department of Information Technology	13	11	14	01
Department of Mechanical Engineering	15	11	11	23

➤ Participation of students in seminars/conferences has also increased.

Academic Year	2011-12	2012-13	2013-14	2014-15
Department of Civil Engineering	03	NIL	NIL	NIL
Department of Electrical Engineering	14	10	17	15
Department of Electronics and Telecommunication	NIL	01	03	10
Department of Instrumentation and Control	01	01	01	01
Department of Information Technology	06	05	04	04
Department of Mechanical Engineering	40	28	19	25

- Faculty members of the Institute have also obtained funds from different agencies like AICTE, BCUD for research work.
- Seminar/conference/workshops are organized.
- Trend in Ph.D enrolment of the faculty increased.

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: Yes
- Timely availability of release of resources: Yes
- Adequate infrastructure and human resources: Available
- Time-off, reduced teaching load, special leave ,etc. to teachers: No

- Support in terms of technology and information needs: Yes
- Facilitate timely auditing and submission of utilization certificate to the funding authorities: Yes

Institute supports and encourages faculty members and students for their involvement in research activities. For the sanctioned project, enthusiastic support is extended to implement the research scheme within the bounds of institute research policy.

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

- Institute promotes and encourages the students to participate in various technical symposiums, paper presentation, and project competition outside the institute to develop scientific temper.
- Guest lectures, seminars from industry persons are arranged along with industrial visits.

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:

The faculty members are actively involved in guiding student research. Many papers are published by the students and faculty members of various departments in national & international conferences/ seminars and journals.

Leading Research Projects:

Many faculty from all the departments submitted research proposals as principal investigators to National funding agencies for grants.

Engaged in individual/collaborative research activity:

The faculty members are actively involved in pursuing research work and publish their findings in journals.

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.

Institute has a focus on capacity building in terms of research and imbibing research culture among the staff and student. To achieve this institute organizes different programmes.

List of programmes conducted/organized by the institution is given below.

Name of Workshop / Conference	Associated Institute/Industry	Date/Duration	Resource Person	Target Audience
Academic Year 2011-12				
Department of Civil Engineering				
Two Day National Workshop on “Recent Trends in Design Of RCC Structure”	BCUD, University of Pune	28- 29/03/12	1. Dr. B. N. Divekar 2. Abhay Khandeshi 3. Dr. Pranesh Mrunal 4. Dr. R. K. Ingale	All Students & Faculty
Auto CAD workshop	CESA organization	29-30/8/2011	Prof. A. A. Waghmare	SE, TE & BE students

Department of Electrical Engineering				
PLC & SCADA Application	Krish Infotech, Pune	22 to 28 August 2011	Er. Sandip Thange, (M.D.)	SE, TE & BE students
Challenges to Indian Power Scenario by 2020	Pdvvp coe Ahmednagar	24 to 25 Feb 2011		SE, TE & BE students
Department of Electronics and Telecommunication				
Expert lecture on personality development & Electrical drives	P.D.V.V.P COE Vilad Ghat, Ahemdngar	17 th Sept. 2011	A.B.Chaudary, Department of Electrical	60
Expert lecture on Electrical drives	P.D.V.V.P COE Vilad Ghat, Ahemdngar	19 th Sept. 2011	A.B.Chaudary, Department of Electrical	60
Two Days Workshop on mobile making	P.D.V.V.P COE Vilad Ghat, Ahemdngar	27 & 28 th Aug 2012	Avadh singh	200
Expert lecture on Advances in Computer Networking	P.D.V.V.P COE Vilad Ghat, Ahemdngar	05 th Oct. 2011 & 07 th Oct. 2011	Mr.Sunil Nimbalkar	45
The Institution of Engineers (India)	P.D.V.V.P COE Vilad Ghat, Ahemdngar	15 th Sept. 2011	Dr.M.Y.Khire	150
Personality Development and interviewing Techniques (Seminar)	P.D.V.V.P COE Vilad Ghat, Ahemdngar	17 th Sept.. 2011	Prof. A .B. Chaudhari	150
PCB Designing Concepts (Workshop)	P.D.V.V.P COE Vilad Ghat, Ahemdngar	23th and 24 th Sept. 2011	Mrs. Savita Kalane ,S.K. Electronics,Pune	150
Techno-Excellence-2012 (state level event)	P.D.V.V.P COE Vilad Ghat, Ahemdngar	19 th and 20 th March 2012	1)Mr. Laximan Singh Roopia The General Manager, BSNL, 2) Dr. P.M. Rao EM Division, VRDE,	150
PLC & SCADA(Work Shop)	P.D.V.V.P COE Vilad Ghat, Ahemdngar	26 th to 30 th March 2012	Krish Infotech,	150
“Personality Development” (Seminar)	P.D.V.V.P COE Vilad Ghat, Ahemdngar	12 th March 2012	Miss Vaishali Bedve, Krishna Institute, Aurangabad.	150
One day national	P.D.V.V.P COE	10 th April 2012	Dr. Mohd Hasan, AMU,	150

Seminar on “Research Opportunities in VLSI Design”	Vilad Ghat , Ahmednagar		Aligarh	
One week training Programme	BSNL, Ahmednagar	Sept 2012	Er. Rajesh Beldar	100
Department of Instrumentation and Control				
Communication Protocol	PREC,Loni	One day	Mr.B.J. Parvat	B.E. Students
Temperature Control loop	COEPune	one day	Mr.Deepak Ingole	B.E. Students
Career in instrumentation engineering	Krish Infotech,Pune	Seven days	Mr.Sandeep Thange	T.E.&B.E.Students
Industrial Building Automation	Honeywell Automation,Pune	One day	Mr. Prashant Kulkarni	B.E. Students
Department of Information Technology				
Seminar By Alumni	KPIT Cummins	15/08/2011/One day	Revati Bordavekar/ Rohan Puri	B.E. Students
Seminar on Project Guidance	Acuminate Consulting	25/08/2011/One Day	Prof. Uday Oak	B.E. Students
Ethical Hacking and system security	Kyrion Digital Securities	20-21/09/2011/Two Days	Shubham Gupta	T.E. Students
Seminar on Carrier guidance	C-Dac, Pune	25/01/2012/one day	Kulange Sandeep	B.E. Students
Entrepreneurship Development	Maharashtra Center for entrepreneurship Development	22-24 feb. 2012/Two Day	MCED	T.E. Students.
Workshop on LaTeX	Sinhgad College Of engineering	20-21 March 2012/Two Day	SCOE	T.E. Students.
Workshop on Web Designing and PHP	Virscnt Technology & E-Cell of IIT Kharagpur	17-18 Feb.2012 Two Day	Virscnt Technology	T.E. Students.
Academic Year 2012-13				
Department of Civil Engineering				
Two days National Seminar on “Advances in Geo technical Engineering and Laboratory Experimentation	PDVVPCOE	21- 22/02/13	1.Dr. S. S. Bhosale 2.Annapurni Iyer 3.Dr. G. L. Shivakumar Babu 4.Dr. H. N. Ramesh	SE, TE & BE students

Department of Electrical Engineering				
PLC & SCADA Application	Prolific Systems & Technologies Pvt. Ltd., Pune.	16 to 21 July 2012	Er.Ramesh Wakchaure	Students and staff
Department of Electronics and Telecommunication				
Movies Making	P.D.V.V.P COE Vilad Ghat ,Ahmednagar	15 th Sept. 2012	-	25
Blog Writing	P.D.V.V.P COE Vilad Ghat ,Ahmednagar	16 th Sept. 2012	-	25
Hand Painting	P.D.V.V.P COE Vilad Ghat ,Ahmednagar	17 th Sept. 2012	-	25
Technical Project	P.D.V.V.P COE Vilad Ghat ,Ahmednagar	18 th Sept. 2012	Prof.V.G.Kale	50
Seminar on Youth Day	P.D.V.V.P COE Vilad Ghat	11 th Jan 2013	Prof Shelke, Maruti Master mind career academy	200
Seminar on career opportunities in Embedded.	P.D.V.V.P COE Vilad Ghat	8 th Feb2013	Prof Chinmay Ook,Excel Tech Pune	150
Seminar on Automated guided vehicle	P.D.V.V.P COE Vilad Ghat	19 th March 2013	Prolofic SunilTomar,Maintenance manager Tata motors,Pune	150
Department of Instrumentation and Control				
PCB designing	PREC,Loni	One day	Mr. S. M. Shirsath	TE student
Fuzzy logic & application	New Arts, Commerce & Science College Ahmednagar	One day	Dr. Shradha Ingale	BE student
Department of Information Technology				
Seminar On Java	Bits System private Ltd.	30/7/2012/One Day	Ashwin Banger	T.E. Students
Workshop on computer networking lab.	IACM	16-08-2012	Mr. Santosh Sonavane	T.E. Students
Workshop on ethical hacking and system security	Kyrion Digital Securities	24-25 Aug. 2012	Mr. Santosh Jain	T.E. Students
LaTeX Workshop	AVCOE	25/02/2013	Prof. B.S. Borkar	T.E. Students
Academic Year 2013-14				

Department of Civil Engineering				
Five Day National Workshop on "Subsurface Investigation & Foundation for High Rise Structure".	PDVVPCOE	11- 15/02/14	Dr. S. S. Bhosale Dr. K. A. Patil Dr. M. S. Dixit Dr. T. K. Nagaraj Dr. J. R. Patil Prof. Jain S. S. Dr. Ladhane Mr. Murlidharan, Mr. Ramesh Kulkarni Dr. Daigavane	SE, TE & BE students
Department of Electrical Engineering				
PLC & SCADA Application	Just Engineering, Pune	17 to 22 july 2013	Er. Shriram Pendse, (Senior Engineer)	Students and staff
Syllabus Revision at Third Year Electrical Engg	(Crompton Greaves Ltd. Ahmednagar) (PVG COET, Pune)		Er. Dilip Bhawe (Dy.G.M.) Dr. Y.P. Nerkar (Principal) Prof. M.G. Unde (HOD)	Students and staff
Department of Electronics and Telecommunication				
Seminar on Meditation & mind setting.	P.D.V.V.P COE Vilad Ghat ,Ahemdnagar	5 th Aug.2013	Swami Aryanand	150
Poster Presentation	P.D.V.V.P COE Vilad Ghat ,Ahemdnagar	15 th Sept. 2013	Prof.A.K.Patil Prof.M.B.Avad	150
Quiz competition	P.D.V.V.P COE Vilad Ghat ,Ahemdnagar	16 th Sept. 2013	Prof. A.B.Chaudhari	50
Electronica	P.D.V.V.P COE Vilad Ghat ,Ahemdnagar	17 th Sept. 2013	Prof.A.K.Patil	50
Essay Witting	P.D.V.V.P COE Vilad Ghat ,Ahemdnagar	18 th Sept. 2013	Prof.P.P.Bhalerao Prof. A.R.Mane	50
" Big Data "	P.D.V.V.P COE Vilad Ghat , Ahemdnagar	3 rd March 2014	Mrs. Vidya Mhaske , H.O.D. ,Computer Engg.,Bhartiya Vidyaapeeth ,Mumbai	200
Carrier Guidance	P.D.V.V.P COE Vilad Ghat	3 rd March 2014	Er. K. M. Raje, Chairman, Institute of Engineer, Ahemdnagar.	200
Techno-excellence-2014	P.D.V.V.P COE	05 March 2014	1.Dy Director Akashwani	350

	Vilad Ghat ,Ahemdnagar		Rajesh Beldar 2.Dr.Stefan.Ghaustavson,	
Department of Instrumentation and Control				
Krish Infotech,Pune	One day	Mr.Sandeep Thange	S.E. Students	Role of Instrumentation in Industry
Department of Information Technology				
Android Workshop	Geeks Lab Technologies	30-31 Aug. 2013	Geeks Lab Technologies	T.E. Students
LaTeX Workshop	Prygma Information System	24-07-2013	Mr.Rupesh Dudhai	B.E Students
Hadoop Workshop	Prygma Information System	03/08/2013	Mr.Thorve Nitin	B.E. Students
Cloud Computing and Virtualization Workshop	Mr. Sharma M. R	22-07-2013	Mr. Sharma M. R	T.E. Students
Department of Mechanical Engineering				
Mechatronics		One Day	Mr. Modi	UG Students
Academic Year 2014-15				
Department of Civil Engineering				
Level One Day state level Workshop on “Modern Techniques in Waste Water Treatment”	BCUD Savitribai Phule Pune University	09/01/15	Ajit Khandeshe Dr. Lamkhede Mr. Rohit Kumar	All students and Faculty
Department of Electrical Engineering				
PLC & SCADA Application	Prolific Systems & Technologies Pvt. Ltd., Pune.	7 to 12 july 2014	Er.Gajanan Chavan Sr. Manager (Knowledge Management)	Students and staff
Computer Programming	Disha Computers, Ahmednagar	7 to 11 January 2015	Er. Vaibhav Patil	Students and staff
Department of Electronics and Telecommunication				
Workshop on “Robovision-14”	P.D.V.V.P COE Vilad Ghat ,Ahemdnagar	2 nd &3 rd sept14	1.Mitul bijlani 2Harikrishna Singh 3.Anup Chaudhari	200
Paper Presentation	P.D.V.V.P COE Vilad Ghat ,Ahemdnagar	15 th Sept. 2014	Prof.A.K.Patil Prof.J.P.Botkar Prof.T.N.Pawase	50
Quiz Competition	P.D.V.V.P COE Vilad Ghat ,Ahemdnagar	16 th Sept. 2014	Prof.V.G.Kale Prof.J.P.Botkar Prof.V.A.Dhawale	150
Electronica	P.D.V.V.P COE	17 th Sept. 2014	Prof.S.J.Wamane	50

	Vilad Ghat ,Ahemdnagar			
Techno-excellence-2015 (State level conference on image processing, VLSI& Embedded system sponsored by BCUD)	P.D.V.V.P COE Vilad Ghat ,Ahemdnagar	16 th Jan 2015	1. Chief Guest: Er.Ajatshatru Somani. General Manager BSNL 2. Guest of Honor: Dr Girish Mundada. Head Training & placement PICT Pune.	290
Department of Instrumentation and Control				
Career in instrumentation engineering	Krish Infotech,Pune	One day	Mr.Sandeep Thange	TE&BE Student
Department of Information Technology				
Two Days Workshop on Web Development	Wegilant IIT Bombay, Mumbai	27-28 th August 2014	Mr. Faiz Akthar	T.E. Students
Two Days Workshop on cloud Computing	Wegilant IIT Bombay, Mumbai	25-26 th August 2014	Mr. Pratik Kadam	T.E. Students
One Day Workshop on LaTeX Paper formatting	AVCOE Sangmner	02 nd Jan 2015	Prof. Sandip Hase	T.E.I.T. Students
One Day Workshop On Linux & Shell Programming	Fizzible Tech. Pune	03 rd Jan 2015	Mr. Pratik Magar	T.E.I.T. Students
One Day Workshop On Linux Kernel Programming	Prof. Tushar Kute Sandip Institute of Engineering & Research	10 th Feb. 2015	Prof. Tushar Kute	T.E.I.T. Students
Department of Mechanical Engineering				
Recent Advances in Mechanical Engineering RAME-2015	SPPU	Two Days	Dr. Maheshaapa Dr. Thakur	Faculties and PG Students
Mechatronics		Two Days	Mr. Modi	UG Students

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

The institute has a Research and Development Cell under the Chairmanship of Dr. H.N.Kudal. Faculty members from different departments are engaged and involved in research at individual/collaborative level.

Following are the details for the research areas and expertise of the faculty members of different departments.

Name of the Department	Area of Specialization	Name of the Expertize
Department of Civil Engineering	Structural Engineering	Prof. U. R. Kawade, S. N. Daule, P. B. Autade, A. A. Sengupta, P. K.

		Bhandari, A. A. waghmare,
	Geology	Dr. A. J. Shirke
	Environmental Engineering	Prof. V. R. Kulkarni, M. P. Wagh, M. V. Gunjal, S. L. Asawa, N. M. Mulik
	Construction Management	Prof. N. A. Patil
Department of Electrical Engineering	Power System	Prof.M.G.Unde Prof.S.K.Sheikh
	High Voltage Engineering	Prof.S.K.Sheikh
	Control System	Prof.M.H.Nerkar
	Power Electronics & Renewable Energy	Prof.S.A.Markad
	Earthing And electrical Safety	Prof.M.G.Unde
	Electrical Machines	Prof.M.G.Unde Prof. Sumit Kumar
Department of Electronics and Telecommunication	Signals & System Computer Organization	Prof.S.J.Wamane
	Control System	Prof. Pawase T.N.
	Data Structure Object Oriented Programming	Prof. M. B.Avad
	Electronic Devices & circuits Integrated Circuit	Prof. M. K. Musale
	Analog Communication Digital Electronics	Prof.P. B.Varpe
	Network Theory	Prof. V.S. Khakal
	Antenna Wave Propagation Basic Electronics Engineering	Prof. A. K. Patil
	Digital Signal Processing	Prof. V. G. Kale
	Information Theory & Coding Technique	Prof. N. M. Deshpande
	Power Electronics	Prof. V. A. Dhawale
	Embedded Processor	Prof.R. J. Lawande
	Nanotechnology	Prof. C. K. Kalawade
	Digital Communication	Prof.S.R. Udawant
	Mobile Communication	Prof.A.K.Patil
	Telecommunication & switching System	Prof.S.R. Udawant
	Test & Measurement System	Prof.A.R. Landge
	Optical Fiber Communication Computer Network	Prof.J.P.Botkar
	Electronic Product Design	Prof.S.S.Magar
	Microwave Radiation	Prof. T.N. pawase
	Department of Instrumentation	BOILER INSTRUMENTATION
Department of Information Technology	Machine Learning	Prof. D.A. Vidhate
	Computer NETWORK	Prof. M.N. Kale
	Computer graphics	Prof. A.B.Bavane
	Software Architecture	Prof.R.G. Raut

	Data Structure and files	Prof G.M. Dahane
	System Software	Prof. S.S. Pophale
	Distributed system	Prof. A.A. Pund
	Operating System	Prof. J.P. Gaidhani
	Computer organization	Prof . Gayake
	Bioinformatics	Prof. Tripathi
Department of Mechanical Engineering	CAD CAM	Dr. K.B.Kale Prof. P.P.Rasal Prof. M.M.Bidwe Prof. S.G.Kotakar
	Nano Composites	Prof. J.Jaykumar
	Tribology	Dr. J.C.Burse Prof. R.R.Navthar Prof. K M Markad
	Vibrations	Prof. S.M.Magar Prof. P.A.Narwade Prof. V.P.Patekar
	Thermal / Heat Transfer	Prof. A.R.Kachare Prof. R.S.Waghmare Prof.V.Y.Dhepe Prof.B.T.Tagad
	Manufacturing/Production	Prof. R E Kalhapure Prof M S Chopade

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 institute organizes technical symposium, project competition, workshops, seminars, guest lecture for students where experts from academic institutes, industries are invited for delivering keynote addresses, special lectures with interaction with teacher and students. Various short-term training programs, workshops, faculty development programmes for faculties are organized, for which experts are invited to deliver special lectures and deliberations on important issues. The faculty members are encouraged to collaborate with eminent professors of reputed institutions for their research activities. Few of eminent persons also visited and interacted with faculties and students. The details are as below:

1) Department of Civil Engineering:-

Sr.No.	Name of Visitor	Address	Date
2010-11			
1.	Ajit radhakrishnan	Ultrtech cement Ltd Pune	07/03/11
2011-12			
2.	Kamod kharade	Gulmohar road ahemdnagar	21/08/11
3.	Dr.Anilraj jagdale	Institute of science Kolhapur	14/09/11
4.	Shrikant joshi	Gulmohar road ahemdnagar	15/09/11
5.	Kamod charade	Gulmohar road ahemdnagar	15/09/11
6.	K.Nagraj	College of military engg	11/10/11
2012-13			
7.	S.R.Gavahne	Central railway ahemdnagar	30/07/12
8.	Dr.A.A.Sayyad	S.R.E.S COE Kopergaon	31/07/12

9.	Dr.S.R.Mise	P.D.A COE Gulberga	06/09/12
10.	V.B.Paithankar	Central railway ahemdagar	15/09/12
11.	Annapurni ayyer	Meccafferri Indial LTD Mumbai	21/02/13
12.	Dr.S.S.Bhosale	College of Engg Pune	21/02/13
13.	Auderj Bergman	Han.corp Env &Safety Hoganas sweden	22/02/13
14.	G.H.Shivkumar Babu	I.I.S.Banglore	22/02/13
15.	Dr.H.N.Ramesh	U.V.C.E.Banglore	22/02/13
2013-2014			
16.	Dr.K.A.Patil	Government COE Aurangabad	11/02/14
17.	Dr.M.S.Dixit	M.I.T.COE Aurangabad	11/02/14
18.	Dr.K.B.Ladhane	P.R.E.C LONI	12/02/14
19.	Dr.S.S.Bhosale	College of Engg Pune	12/02/14
20.	B.Muralidhar SRO	CWPRS Khadakwasla Pune	12/02/14
21.	Dr.Jalindar .Patil	D.Y.Patil COE Pune	13/02/14
22.	Deepak Kulkarni	Monarch Survey Engineering Pvt Ltd.	13/02/14
23.	S.S.Jain	SCOE Vadgaon Pun e	14/02/14
24.	Ramesh Kulkarni	Soiltech India Pvt Ltd. Pune	14/02/14
25.	Dr.P.B.Dahighavane	Government COE Avsari Pune	15/02/14
2014-2015			
26	Vinayak trivedi	Area Manager-Bently Software	19/3/2015
27	Ajit Khandeshe	Consulting Environmental Engineer, KWAN Pvt Ltd Enviornmental solution Mumbai	9/1/2015
28	Dr. Lamkhede	Associate Prof, PREC LONI	9/1/2015
29	Mr. Rohit Kumar	Environmental consultant, Research Scholar, IIT Powai	9/1/2015
30	S.B.Digholkar	Engineer, Jivan pradhikaran Ahmednagar	9/1/2015
31	C.R .Gajbhiye	Engineer, Jivan pradhikaran Ahmednagar	9/1/2015

2.Department of Electrical Engineering

Eminent academician and scientists/ visitors	Experties	Institutes
Prof. A.B.Chaudhary	Communication Skill, Personality development.	Retired manager of Crompton Greaves Ahmednagar
Dr. B.E. Kushare	Power quality	K.K.Wagh College of Engineering Nashik
Dr. Omprakash Kulkarni	Solar Heater and solar system	Nashik
Dr. Y.P. Nerkar	High voltage engineering	PVG College of Engineering Pune
Dr. V. N. Bandal	MATLAB & Control	C.O.E.P Pune
Dr. D.B. Talange	Signals and Control	COEP,Pune
Prof. A.A.Khandekar	Matlab applications in control system	Zeal COE,Pune
Er, N.V. Kale (Scientist "F")	Advanced Microprocessor &	DRDO Hyderabad

	Applications	
Mrs. Babita Jaggi Verma	Personality Development	Pune
Er. Dilip Pawar	Design & Testing of three phase Alternator	Crompton Greaves Ahmednagar
Er. Sharad Magar	Energy Audit & Management	Hogonus India

1) Department of Electronics and Telecommunication

Year	Name of event	Target of audience	Resource person invited/involved
2011-12	Communication Protocol	BE Student	Mr.B.J.Parvat
	Temperature Control loop	BE Student	Mr.Deepak Ingole
	Career in instrumentation engineering	TE&BE Student	Mr.Sandeep Thange
	Industrial Building Automation	BE Student	Mr.Prashant Kulkarni
2012-13	PCB designing	TE student	Mr. S. M. Shirsath
	Fuzzy logic & application	BE tudent	Dr. Shradha Ingale
2013-14	Nil		
2014-15	Career in instrumentation engineering	TE&BE Student	Mr.Sandeep Thange

2) Department of Information Technology

01.	Carrier Guidance	Revati Bordavekar and Rohan Puri	B.E. Student
02.	Project Guidance	Prof. Uday Oak	B.E. Student
03.	Carrier guidance	Kulange Sandeep, C-Dac, Pune	B.E. Student
04.	Java Programming Language	Bits System private Ltd.	T.E. Student
05.	Communication Skill	Prof. A.B. Choudhary	T.E. student

3) Department of Mechanical Engineering:-

Dr.Manmohan Singh	Sccientist F, VRDE, Ahmednagar	PDVVPCOEA	19 March2012	Expert Lecture to BE Students
Dr Thipse S.B.	ARAI pune	PDVVPCOEA	12 July 2014	Expert Lecture to BE Students
Dr. Ramkrishnan	ISC Bangalore	PDVVPCOEA	27 Aug 2014	Expert Lecture to BE Students
Er. Ganesh Yeole	Sccientist, VRDE, Ahmednagar	PDVVPCOEA	5Jan 2015	Expert Lecture to BE Students
Dr. S.B.Singh	ITM DRDO Mhasuri Uttarakhand	PDVVPCOEA	13 Jan 2015	Expert Lecture to BE Students
Dr A K Shrivastav	Joint Controller,CQAV,Ahmednagar	PDVVPCOEA	23 Jan 2015	Expert Lecture to BE Students

Dr. J P Tiwari	Joint Controller,CQAE,Jabalpur	PDVVPCOEA	23 Jan 2015	Expert Lecture to BE Students
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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?

Institute has a policy for leave allotment for research work. And as per the policy, the faculty members who are pursuing Ph.D. research works are granted leave to carry out their research works, course works and to meet the respective guides.

Faculty Name	Department	Research Activity/ Course	Institute to which Deputed
Department of Civil Engineering			
N.A.Patil	Civil	Study leave for PhD	IIT Guwahati
U. R. Kawade	Civil	Ph D research Work	SSBT COE Jalgaon (North Maharashtra University)
M. P. Wagh	Civil	Ph D research Work	D. Y. Patil College of Engg. Pimpri- Chinchwad, Pune (Savitribai Phule Pune University)
P. B. Autade	Civil	Ph D research Work	D. Y. Patil College of Engg. Pimpri- Chinchwad, Pune (Savitribai Phule Pune University)
Department of Electrical Engineering			
Prof.M.G.Unde	Electrical	Persuing Ph.D	SPPU,Pune
Prof.S.A.Markad	Electrical	Persuing Ph.D	Marathwada University,Aurangabad
Prof.S.K.Sheikh	Electrical	Persuing Ph.D	NIMS University,Rajasthan
Department of Electronics and Telecommunication			
Prof.A.K.Kureshi	E&Tc	P.h.d	Aligarh University
Prof.S.D.Pabale	E&Tc	P.h.d	Aligarh University
Prof.S.S.Magar	E&Tc	P.h.d	Chennai University
Prof.A.K.Patil	E&Tc	P.h.d	NMU Jalgaon
Department of Instrumentation and Control			
Prof. A.R.Laware	Instrumentation	Electrical	COEPUNE
Department of Information Technology			
D.A. Vidhate	Information Technology	Ph.D	College of engineering Pune.
Department of Mechanical Engineering			
Prof. J Jayakumar	Mechanical	PhD work	Annamalai University
Prof.R R Navthar	Mechanical	PhD work	North Maharashtra University
Prof S.M. Magar	Mechanical	PhD work	SPPU.

Apart from this, faculty members also utilizes the vacation period by participating/attending STTP/workshop/conferences/seminars etc.

Summary of the above activities is as below:

Academic Year	2011-12	2012-13	2013-14	2014-15
Department of Civil Engineering	01	02	01	01
Department of Electrical Engineering	Nil	Nil	Nil	Nil
Department of Electronics and Telecommunication	05	04	22	10
Department of Instrumentation and Control	Nil	01	02	Nil
Information Technology	Nil	Nil	Nil	Nil
Department of Mechanical Engineering	07	05	06	07

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).

At department level, projects are demonstrated by the students through various assessment tools to a group of review committees. The tools include seminar, poster presentation, and two reviews per semester. Apart from this students participate in various research and project competition, wherein an external review also is done.

External experts are regularly invited by the college to give lectures to the students on advanced research topics.

Department	Academic Year			
	2011-12	2012-13	2013-14	2014-15
Department of Civil Engineering	01	03	NIL	01
Department of Electrical Engineering	02	01	02	02
Department of Electronics and Telecommunication	90	44	42	16
Department of Instrumentation and Control	01	01	01	01
Department of Information Technology	25	17	17	15
Department of Mechanical Engineering	NIL	01	02	02

3.2 Resource Mobilization for Research

Institute has a yearly budget plan for every department for each head of expense. A part of the budget is kept for mobilization of resources 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.

Research Budget**1) Department of Civil Engineering**

Academic Year	Expenditure Type	Budgeted Amount	Utilized Amount	% Utilization
2011-12	Research and Development	231000/-	221920/-	96.06926
2012-13		207000/-	189502/-	91.54686
2013-14		400000/-	245585/-	61.39625
2014-15		710000/-	158944/-	22.38648

2) Department of Electrical Engineering

Academic Year	Expenditure Type	Budgeted Amount	Utilized Amount	% Utilization
2011-12	Research and Development	132000/-	123775/-	93.76894
2012-13		110400/-	109563/-	99.24185
2013-14		90000/-	61316/-	68.12889
2014-15		150000/-	69305/-	46.20333

3) Department of Electronics and Telecommunication

Academic Year	Expenditure Type	Budgeted Amount	Utilized Amount	% Utilization
2011-12	Research and Development	164000/-	75774/-	93.76894
2012-13		257000/-	257607/-	99.24185
2013-14		350000/-	197981/-	68.12889
2014-15		410000/-	341641/-	46.20333

4) Department of Instrumentation and Control

Academic Year	Expenditure Type	Budgeted Amount	Utilized Amount	% Utilization
2011-12	Research and Development	116000/-	40315/-	34.75431
2012-13		103250/-	92191/-	89.2891
2013-14		250000/-	79622/-	31.8488
2014-15		190000/-	18289/-	9.625789

5) Department of Information Technology

Academic Year	Expenditure Type	Budgeted Amount	Utilized Amount	% Utilization
2011-12	Research and Development	210000/-	173589/-	82.66143
2012-13		106500/-	102159/-	95.92394
2013-14		270000/-	117809/-	43.63296
2014-15		395000/-	144831/-	36.66608

6) Department of Mechanical Engineering

Academic Year	Expenditure Type	Budgeted Amount	Utilized Amount	% Utilization
2011-12	Research and Development	186000/-	177155/-	95.24462
2012-13		166300/-	157477/-	94.69453
2013-14		600000/-	194533/-	32.42217
2014-15		800000/-	438528/-	54.816

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?

Yes, there is a provision to provide seed money to the faculty for research. Alternately, a part of research expenditures are reimbursed by the management. The amount disbursed and the percentage of the faculty availed the facility in the last four years is attached:

Academic Year	2011-12	2012-13	2013-14	2014-15
Total Expenditure	940043/-	50641/-	63000/-	199980/-
Department of Civil Engineering	00/-	275/-	00/-	101500/-
Department of Electrical Engineering	220043/-	2848/-	00/-	00/-
Department of Electronics and Telecommunication	00/-	00/-	00/-	00/-
Department of Instrumentation and Control	00/-	00/-	00/-	00/-
Department of Information Technology	00/-	7950/-	00/-	00/-
Department of Mechanical Engineering	720000/-	39568/-	63000/-	98480/-

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

The research committee encourages students to take up research projects and for which limited policy based financial assistance is also provided from the Institute. The institute has also developed research laboratories with high end equipments, within campus through the research grant received from AICTE, BCUD, University of Pune and with institutional fundings to support students research activities.

List of High End Equipments

Sr. No	Name of Equipment	Make	Model	Year of Purchase	Amount	Used for
Department of Civil Engineering						
1	Auto CAD Education suite software	2010 make		2010	4,00,000	For practicals
2	Build Master, Road Master, Rate Analysis, Steel Master software			2010	48000	For practicals
3	SCAADS/ Building Estimator software	2007 make		2008	84000	For practicals
4	Universal testing machine (40 tonnes capacity)	FSA make FWT		1985	1,42,216.50	For practicals
5	Toshroiwal Digital Ultrasonic Concrete tester	MT03-A		1991	52,841	For practicals
6	Torsion testing Machine	TT-10		2007	1,46,062	For practicals
7	Universal Testing Machine (40 Tonnes capacity)	FSA make FWT		1985	1,42,216.50	For practicals
8	Torshroiwal Digital Ultrasonic Concrete tester	MT 03-A		1991	52,841	For practicals

9	Torsion Testing Machine	TT-10		2007	1,46,062	For practicals
10	Pentax Total station	PCS-325		1999	4,27,000	For practicals
11	Electronic Digital Theodolite	SETAL make	SDJ-02	2006	67,500	For practicals
12	Dust Sampler	NPM-HVS/R		2007	1,23,750	project work
13	Laser Level			2011	1,01,740	For practicals
14	Interface Friction measurement Apparatus	AIM 244		2012	26,753=00	Project work
15	Interface Friction measurement apparatus	AIM 245		2012	28,907=00	Project work
16	AMIL 1 Pore Pressure Apparatus	AIM 078		2012	28,247=00	For practicals
17	AMIL Constant Pressure System oil ,Water single	AIM 081 - 1-2		2012	59,291=00	For practicals & Project
18	Sensitive Volume Change Gauge	AIM 084		2012	13,187=00	For practicals
19	Constant Pressure System Oil Water 2 cell	AIM 081 - 1-2		2012	69,677=00	Project 8work
20	Permeability Test Apparatus	As per IS2720 part XVII		2012	24,328=00	For practicals
21	Relative Density Apparatus	AIM 115-1		2012	1,44,007=00	For practicals
22	Concrete Test Hammer Digital Silver Schmidt			2014	2,29,425=00	BE & ME students
23	Vertical Shake Table with Oscilloscope Amplifier Conditioners			2014	11,38,283=00	ME students
24	Desktop CPU – Intel Core third general 3220			2014	16,90,825=00	BE Students
25	LCD Projector		Dell 1210s	2014	25875=00	BE Students
26	R- Cube Concrete Mix Design Software			2014	30,000=00	ME students
27	Etabs Ultimate 2013 Education & Research Liscence			2014	3,18,750=00	ME students
28	Bently Academic Staad Pro Software			2014	5,69,384=00	ME students
29	Sokkia Electronic Digital Planimeter		KP- 90N	2012	94,162=00	BE Students

Department of Electrical Engineering

1	Dc power rectifier 3-ph. 440v AC Sec. 250v,80A DC	M/s Chema Engg Agencies Bombay	Dc power rectifier	18/08/1987	25,500=00	Machine labPractica
2	AC Generator,3 ph 415v 1500rpm 15kva	M/s Chema engg Agencies Bombay	Dc power rectifier	18/08/1987	32,318=00	Machine labPractical

3	Diesel generating set 3 ph 6.25kva 5kw 440v	M/s Chema engg Agencies Bombay	Diesel generating set	18/08/1987	35,962=00	Machine labPractical
4	Teknogear make, DC compound motor alternatorset 5hp 220v 1500rpm 3ph3kva 440v	M/S Teknomatics Enterprise Chiplun	DC compound motor alternatorset	18/05/2001	63,700=00	Machine labPractical
5	Teknogear make,Auto synchronous motor 3.7kw 3ph coupled with 220v 1500rpm dc compound generator	M/S Teknomatics Enterprise Chiplun	synchronous motor coupled	18/05/2001	75,000=00	Machine labPractical 1
6	100Teknogear make dc shunt motor identical	M/S Teknomatics Enterprise Chiplun	MG Set	18/05/2001	33,500=00	Machine labPractical
7	3ph ac series motor415v 3hp 1500- 3000rpm	M/S MD Electricals,Pune	3ph ac series motor	21/02/2003	29,150=00	Machine labPractical
8	AC Linear induction motor 0.5hp 415v1500rpm	M/S MD Electricals,Pune	AC Linear induction motor	21/02/2003	25,860=00	Machine labPractical
9	Induction motor3ph 5hp 415v 4pole 1440rpm	M/S Electrical Engg Co,Mumbai	Induction motor	03/11/2006	31,650=00	Machine labPractical
10	Variable frequency drive with motor0.5hp 3ph 415v 4pole&2pole	M/S Electrical Engg Co,Mumb	Variable frequency drive	03/11/2006	79,800=00	Machine labPractical
11	AE make rectifier unit 3ph 360-440v 50hz ac input. Output 230-250v dc 0-	M/S Frank Sudhachand & Co.Ltd	rectifier unit	03/11/2006	3,21,525=0 0	Machine labPractical
12	Supply erection testing & commissioning of control panel	M/S Goldstar Electrical and Electronics	control panel	03/11/2006	3,21,525=0 0	Machine labPractical
13	A.C High voltage transformer 60kva	M/S High VoltageIndia Bangalore	A.C High voltage transformer	1/080/2000	52,608=00	Machine lab Practical
14	0-100 kv oil testing kit	M/S High VoltageIndia	oil testing kit	1/080/2000	40,176=00	Machine labPractical
15	Auto range digital earth resistance tester	M/s electron Devices Kanpur	earth resistance	2/03/2009	48,000=00	Measurement of earth resistance
16	Microprocessor based cable fault localizer(0- 10mag)	M/s electron Devices Kanpur	cable fault localizer	2/03/2009	47,250=00	Finding cable fault and consultancy
17	Analog lab trainer ST2612.Ready to use	Sciencetech technology pvt ltd	Analog lab trainer	01/11/2004	30,643=00	Lab Practical

	circuit board					
18	Scientific make digital CRO 80 MHz oscilloscope and dual channel	Ad-tek Trading Corporation Pune	digital CRO	01/11/2004	74100=00 (03 Nos)	Lab Practical
19	Phase Shift Transformer 3phase 1000VA, 415V.	Nippen, Mumbai	Phase Shift Transformer	1/08/2000	31,320=00	Lab Practical
20	Study Of PID Control System	M/s Bendare Electrical Azmavati	PID Control System	3/02/2003	26400=00	Lab Practical
21	Logic analyzer model LA 2142 sampling 100 MHz 128k channels	Anshuman Pune	Logic analyzer model	15/05/2003	74,664=00	Lab Practical
22	1) 1ph Converter fed separately excited D.C. motor E-T Thyset 13mr with 0.5HP	Electrotech Pune	Converter fed separately excited D.C. motor	3/11/2006	26,800=00	Lab Practical
23	Power mosfet chopper 0.1hp motor E.T. thyset 28 mr with 0.1hp. motor	Electrotech Pune	Power mosfet chopper	3/11/2006	26,800=00	Lab Practical
24	3hp induction motor pwm control using IGBT's @ with 0.5hp motor TDIM.	Electrotech Pune	3hp induction motor pwm control	3/11/2006	56000=00	Lab Practical
25	Thyristor controlled Trainer with 0.5hp 3ph induction motor 415V, TCT-3 motor.	Electrotech Pune	Thyristor controlled Trainer 1	3/11/2006	50,200=00	Lab Practical
26	Closed loop speed control of dc motor	Electrotech Pune	Closed loop speed control of dc motor	3/11/2006	52,700=00	Lab Practical
27	3 ph semi & full converter firing circuit ET make	Electrotech Pune	3 ph semi & full converter	17/03/2007	40600=00	Lab Practical
28	3 ph voltage source inverter Transistorized make	Electrotech Pune	inverter Transistorized make	17/03/2007	32,000=00	Lab Practical
29	3 ph scr bridge firing circuit ET make	Electrotech Pune	3 ph scr bridge firing circuit	17/03/2007	30,800=00	Lab Practical
30	Simulation model of Merzprices Protection of transformers without %	M/S MD Electricals, Pune	Merzprices Protection of transformers	21/2/2003	72,011=00	Lab Practical

	difference relay overall Dimensions 100*400*700+600 mm					
31	Simulation model of distance Protection of transmission line without Impedance relay. 100*400*700+600 mm	M/S MD Electricals,Pune		21/2/2003	55,201=00	Lab Practical
32	Switchgear & relay testing kit overall Dimensions 700*400*800+600 mm	M/S MD Electricals,Pune	Switchgear & relay testing kit	21/2/2003	48,636=00	Lab Practical
33	Universal solid state relay kit	M/S MD Electricals,Pune	Universal solid state relay kit	22/2/2003	71864=00	Lab Practical
34	Air break circuit breaker make "L*T" 415V 400 A with all accessories	Nitin machinery stores ahmednagar	Air break circuit breaker	21/07/2007	33,800=00	Lab Practical
35	Simulation model of long transmission Line 230v 1ph 50 hz 1A	Deepak Electricals ,Pune		26/03/2002	42,500=00	Lab Practical
36	Simulation model of medium Transmission line 230v 1ph 50hz 1A	Deepak Electricals ,Pune		26/03/2002	26,822=00	Lab Practical
37	DC network analyzer base kva 20mVA basekv20KV baseimpedance 2000 Ω	Deepak Electricals ,Pune		26/03/2002	71,850=00	Lab Practical
38	E tap powerstation software 5 user Educational version make OTI VSA	KLG system Ltd Gurgaon		34/11/2006	2,56,700=00	Lab Practical
39	Matlab software version-2007 at Licence no. 344845 matlab 10 users Simulink 10 users control system tool Box 10 users fuzzy logic tool box 2	India soft technology Pvt Ltd Pune	Matlab software version-2007	29/03/2007	12,26089=00	Lab Practical
40	Computer CPU intel P-111 1G hzMotherboard Intel 815E. Chipest SD RAM 128MB F DD 1.44 mb ,SeagateMonitor, multimedia keyboard ,	Cyber vision technology Pune		12/2/2002	79,950=00 (03 Nos)	Lab Practical

	Logitech mouse, dustcover mousepad					
41	Computer CPU Intel PIII 1GHZ, Motherboard Intel 815 E CWP set SDRAM 128 MB , Monitor 15" Samtron, Multimedia keyboard, Logitech mouse, Dustcover, Speaker set 440W	Cyber vision technology Pune		12/2/2002	56,000=00	Lab Practical
42	HCL Intel Pentium 4 CPU @ 2.6 GHZ Intel mother board 256 MB 15" HCL Momitor 117 keys , Multimedia HCL Optical mouse with pad 52*CD ROM Drive on board 10/100 mbrs lan	M/s HCL Info system		20/7/2004	2,65000=00 (10 Nos)	Lab Practical
43	Auto grid Pro TCDEGSO 2506	M/s trident Techlab Pvt ltd pune		10/12/2010	682500=00	Lab Practical
44	Dig silent power factory version 14.1	M/s KLG System ltd NEW mumbai		22/10/11	1,25,000=00	Lab Practical
45	MI Power software 5 network set	M/s power research and development consultant pvt ltd bangalore		22/10/11	204497=00	Lab Practical
46	Intel Pentium IV HCL make 8.4 GHZ Intel 915 motherboard 17" monitor Optical mouse with & microphone	M/S HCL Info system		03/11/2006	33,200=00	Lab Practical
Department of Electronics and Telecommunication						
1	DSO	GW-Instek	GDS-2102	26/03/2007	72,300	Communication lab.
2	Spectrum Analyzer	GW-Instek	GSP-A27	20/03/2007	3,20,008	Communication lab
3	OTDR (Optical Time Domain Reflectometer)	Falcon make	Fom ID,2,3B	20/10/2011	2,97,000	OFC & TMS LAB.
4	Microwave Antenna Trainer	Sciencetech	ST-2263	20/10/2011	2,30,504(2 quantity)	OFC & AWP LAB
5	Transmission Line Trainer	Sciencetech	ST-2266	20/10/2011	76,840(4 quantity)	OFC & AWP LAB

6	MATLAB (2010B)	ADCC Infocad pvt.ltd.	Matlab 11-B 5user	22/10/2011	8,65,778	Computer lab
7	Multisim V.11	Trident techlabs pvt.ltd.	10 user	15/11/2011	2,94,000	Pracicals
8	Tina	Scientech Technologies pvt.ltd.	Tina proV7 Educational version. 5user	03/11/2006	83,900	Simulation S/W for analog,digital , & mixed mode
9	Microwind 3 (convert to 3.5)	NI2-design pvt.ltd.	10 user	03/11/2011	2,83,500	S/W LAB.
10	Xilinx	ISE system Edition	13.2- (25 user)	23/11/2011	81,375	S/W LAB.
11	Keil	M/S Embeddes system solutions pvt.ltd.	25 users	22/10/2011	2,14,500	S/W LAB
Department of Instrumentation and Control						
01	UV-VIS Spectrophotometer	Systronics, Ahmedabad	No. 108	23/4/2000	1,08,335=00	Analytical Lab.
02	Atomic Absorption Spectrophotometer	Chemito, Mumbai	AA201	17/05/2007	504504=00	Analytical Lab.
03	Digital Polygraph	Pamtrons,Mumbai	452A	30/01/2006	1,86,637=00	Biomedical Lab.
04	Fiber Optic Trainer Kit	Falcon,Mumbai	Fiber Link	20/01/2000	91079=00	Photonics Lab.
05	Universal Process Control Trainer	Apex,Sangali	Code-330	28/06/2012	4,63050=00	Process Instru.Lab.
06	Programmable Logic Controller	Messung,Pune	Nexgen2000	30/11/2006	63,362=00	Process Instru. Lab.
07	Distributed Control System Trainer	Honeywell,Pune	H.C900	05/08/2010	11,19,574=00	Process Instru. Lab.
Department of Information Technology						
01.	Server	HP	HP Proliant ML 350 G5L Tower Model, Xenon Processor,Q	2009-10	1,11,230	Projects

			uade E5410(2.33 GHZ)12MB			
Department of Mechanical Engineering						
1	Triplee Multicylinder petrol Engine Ambassdor with Hydraulic Dynamometer complete set	Triplee	10 HP & 1500 RPM	1989	50,365	Lab Practical
2	Ductility Testing Machine	M/S Sharma scientific co.		2013	1,02,150	Lab Practical
3	Vacume Stir Casting Furnace	V B Ceramic consultants		2013	5,00,000	Lab Practical
4	Tubular Sintering Furnace	V B Ceramic consultants		2013	1,00,000	Lab Practical
5	Planetary Ball Mill	V B Ceramic consultants		2013	4,00,000	Lab Practical
6	INDUS Smoke Meter Compelte With Sampling System, Printer, Rs 232 Interface, Dc. Operation Facility, Remote , Trolley.	INDUS scientific PVT LTD.	Range is CO=0-15% HC=0-10000RPM CO ₂ =0-20%	2003	91,530	Lab Practical
7	Multi cylinder Diesel Engine Gen Set Test Rig.	Triplee & Kirloskar	10HP & 1500RPM	1989	59,596	Lab Practical
8	Vapour Absorption cycle Test Rig	S.P.Engineers Pune		2007	85,000	Lab Practical
9	Computerized Multi-Fuel research Engine set-up	Apex innovation PVT.LTD.		Feb 2014	9,73,125	Lab Practical
10	Steam Turbine Test Rig	ELITE Engineers	Working Pressure=15.04 Kg/cm ² ,		3,93,750	Lab Practical
11	Water Softner-model`AQUASOFT-005`				3,81,360	Lab Practical
12	Non IBR Steam Boiler of cap 400kg/hr with working pressure of 15kg/cm ² Model-`Steampack-400`			2008	2,04,750	Lab Practical
13	Portable ultrasonic flaw detector model 4400				89,804	Lab Practical
14	CNC lath trainer H – E-125 CNC-PC	Hi-Tech Education equipment Pvt, Ltd.	CNC lathe trainer	2000	5,28,430	Lab Practical
15	Jash accord series pridge type 3 D – CO-ORDINATE MEASURING MACHINE	Jash precision tools Ltd.	With air dryer	2001	8,13,780	Lab Practical
16	Auto Collimater model ACT- 01 S Auto Collimater single axis with standard mirror ACC – 3	Prism India Pvt Ltd	Pipe make model SN:140	2008	1,65,064	Lab Practical

17	Triplee Vertical Shaft Kaplan Turbine test ring complete set.	Triplee Engg equipment Enterprises,Coimbatore	6000LPM discharge,5HP	12/02/1990	89,240	Lab Practical
18	I- DEAS Master seres 8.0	ARJ Asia	02 Nos	2001	2,08,620	Lab Practical
19	Intellicad software				93,600	Lab Practical
20	HP DESIDN JET 500 PLUA AD COLOUR	Sujata Computers	01 Nos	2006	1,39,000	Lab Practical
21	AnsysSoftware	AnsysSoftware Pvt Ltd New Delhi	30 user	2007	3,99,000	Lab Practical
22	Catia V5 R16 Software	EDS Technologies Pvt Ltd	Qty=1	2006	4,27,500	Lab Practical
23	Auto Cad 2012	ADCC Infocad Pvt Ltd	10 user	2011	2,81,505	Lab Practical
24	Journal Bearing Test Rig.	Ducom Instruments Pvt. Ltd. Bangalore	TR-60	2013	609140/-	ME
25	Wear and Friction monitor	Ducom Instruments Pvt. Ltd. Bangalore	TR-20LE	2013	602270/-	ME
26	FFT	Abro Technology Pvt Ltd .New Delhi	COCO-80	2013	1207500/-	BE, ME
27	Epicyclic Gear Train	Data Cone Equipments, Sangali	--	2014	53398/-	TE Mech
28	Single Plate Test Rig.	Data Cone Equipments, Sangali	--	2014	53000/-	TE Mech

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.

Institute has a Research Committee comprising of experts in various subjects from each department. For undertaking inter-disciplinary research, faculty/department interacts with the research committee and undertakes the project. Also few of the faculty members have visited interdisciplinary competitions and workshops for research.

Sr. No	Faculty Participated	Details	Venue & Date
Department of Civil Engineering			
	All faculty	One day workshop on faculty development programme	PDVVP COEA on 3/3/2015
	All faculty	Course on fluency in English grammar	PDVVP COEA from 20 th May to 1 st June 2015

Department of Electrical Engineering			
01	All Staff Of Electrical Department	“One day workshop on faculty Development” By- Prof.(Dr.)U.N.Gaitonde (IIT Bombay)	P.D.V.V.P COE Ahmednagar. 13 March 2015
Department of Electronics and Telecommunication			
1	Prof P.P Bhalerao	Faculty Orientation Workshop	KJCOE, Pune, 12/06/14-14/06/14
2	Prof.C.K. Kalawade	Faculty Orientation Workshop	MIT, Pune, 12/06/14-14/06/14
3	Prof V.S. Khakal	Faculty Orientation Workshop	BVCOE, Pune, 11/12/14-13/12/14
4	Prof. A.R. Landge	Faculty Orientation Workshop	MES, Wadia, Pune, 12/06/14-14/06/14
5	Prof. R.J Lawande	Faculty Orientation Workshop	SCOE, Pune, 11/12/14-13/12/14
6	Prof. R.J Lawande	Faculty Orientation Workshop	MMCOE, Pune, 12/06/14-14/06/14
7	Prof. N.M. Deshpande	Faculty Orientation Workshop	JSPM, Pune, 12/06/14-14/06/14
8	Prof. C.K. Kalawade	Faculty Orientation Workshop	Matoshri COE, Nashik 18/06/13-24/06/13
9	Prof. T.N. Pawase	Faculty Orientation Workshop	ZEALCOE, Pune, 2/12/13-7/12/13
10	Prof. A.R. Landge	Faculty Orientation Workshop	AISSMS, Pune, 2/12/13-7/12/13
11	Prof. R.J Lawande	Faculty Orientation Workshop	SCOE, Pune, 17/06/13-22/06/13
12	Prof V.S. Khakal	Faculty Orientation Workshop	PVG, Pune, 17/06/13-22/06/13
13	Prof M.B. Avhad	Faculty Orientation Workshop	AIT, Pune, 02/06/13-4/06/13
14	Prof M.B. Avhad	Faculty Orientation Workshop	RSCOE, Pune, 17/06/13-22/06/13
15	Prof. S.U. Gaikwad	Faculty Orientation Workshop	PICT, Pune, 17/06/13-22/06/13
16	Prof. V.G. Kale	6 th INUP Familiarization Workshop	IIT Bombay, Mumbai,30/11/11-4/12/11
17	Prof J.P. Botkar	Faculty Orientation Workshop	ZEALCOE, Pune, 7/1/12
18	Prof J.P. Botkar	Measurement Techniques in OFC	MES COE, Pune, 9/1/12-10/1/12
Department of Instrumentation & Control Engineering			
1	A.R.Laware	23 rd national convention of Agriculture mechanization through entrepreneurial development	7 th February2010

2	A.R.Laware	Mathematical methods for research in engineering	26 th April 2010
3	A.R.Laware	Advances in Embedded System	19 th February 2010
Department of Information Technology			
1.	Prof. D.A. Vidhate	Research Trends in Machine Learning and Neural Network	PICT,Pune 28-29 Feb. 2012
2.	Ms. M.N. Kale	Workshop on Data Structures and files”	AISSMS IOIT, 22 dec. 2013
3.	G.M. Dahane	Workshop on “Fundamental of data	University of Pune nad STES’s 20July 2013
4.	Mrs. Gayke P, Miss. Gunjal Monica	“DELD/CO”	University of pune and Rajarshi shahu college of engineering. 20 july 2013
5.	Ms. A. B. Bavane	“PSOOP”	Viit Pune, 19 Aug.2013.
6.	Mr.A.A. Pund, Ms. M.N. Kale	Current trends in distributed system	PVG’s Coe,Pune 22-24 Jan.2012
7.	Mr.G.M. Dahane , Mrs. Gayake P.S.	Operating system activity	Sunbeam Institute of IT, pune, 21-22 Jan2012
8.	Mr. G.M. Dahane	Intellectual Property and Patent Lifecycle management	InreXITes System Pvt.Ltd, 21 Jan.2012
9.	Mr.G.M. Dahane , Mr.A.A. Pund	Distributed system and Information Retrieval	Sinhgad collge of enginrring, pune , 24-25 feb. 2012.
Department of Mechanical Engineering			
01	All Staff Of Mechanical Department	“One day workshop on faculty Development” Prof.(Dr.)U.N.Gaitonde (IIT Bombay)	P.D.V.V.P COE Ahemednagar. 13 March 2015

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

Optimal use of various equipment and research facilities are ensured by:

1. Maintaining Log books
2. Issue and Usage registers.
3. Maintaining equipment history cards
4. Interdisciplinary use of high end equipments

The Research Committee monitors the research activities and keeps track of the usage of various resources and facilities.

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.

Yes,special grants have been received from AICTE/BCUD for modernization of laboratories of various departments.Financial grants have been received for organizing STTP/workshops under various departments.

Details of ongoing and completed projects during last 4 yrs:

Scheme	Name of the coordinator	Amount Sanctioned	Details of sanction letter	Status of funds utilization
1) Department of Civil Engineering				
BCUD Sponsored project	Dr.T.K.Nagraj	1.5 Lac		100% utilized
BCUD Sponsored project	Dr.A.J.Shirke	1.5 Lac		100% utilized
BCUD Sponsored project	U.R.Kawade	1.0 Lac		Ongoing
BCUD Sponsored project	Dr.A.J.Shirke	1.5 Lac		Ongoing
2) Department of Electrical Engineering				
BCUD Sponsored project	M.G.Unde	1 Lac		100% utilized
BCUD Sponsored project	K.R.Ghadge	2 Lac		100% utilized
3) Department of Electronics and Telecommunication				
Technoexcellence 2014-15	Prof.Ms.A.K.Patil Pro.N.M.Deshpande	60,000/-		Total Expenditure 91872/-
Technoexcellence 2013-14	Prof.N.M.Deshpande Prof.S.R.Udawan	Nil		40,000/-
Technoexcellence 2012-11	Prof.N.M.Deshpande	Nil		40,000/-
4) Department of Mechanical Engineering				
BCUD Sponsored project	Prof. j.jaykumar	2 Lac		100% utilized
BCUD Sponsored project	Prof. R R NAVthar	2 Lac		100% utilized
BCUD Sponsored project	Prof. j.jaykumar	11.5 Lac		96% utilized

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.

The institute has blend of senior, experienced and well qualified faculties. These faculty members are guiding other faculty members for preparing the research proposals properly and advise the faculties on the areas of research which would be more suitable. Subsequently the research proposals are sent to various funding agencies for their considerations.

Details of ongoing and completed projects during last 4 yrs:

Nature of Project Minor/Major/Industry Sponsor etc	Duration Year	Title of the Project	Name of funding Agency	Total Grant	
				Sanctioned	Received
1) Department of Civil Engineering					
Sponsored project (Dr. A.J.Shirke)	2007-09	Morphotectonic Studies of the tertiary Sediment from central	BCUD	1.5 lac.	100% utilized

		part of west coast Dist. Ratnagiri, Maharashtra			
Sponsored project (Dr. A.J.Shirke)	2014-15	Lanslide hazard zonation and mapping central part of west coast Maharashtra Dist. Ratnagiri by using Remote sensing & GIS	BCUD	1.5 lac	Ongoing work
Sponsored project (Prof. U.R.Kawade)	2013-15	Effect of infusion of steel fibres on properties of geopolymer concrete composites	BCUD	1 Lac	21.5% utilized
2) Department of Electrical Engineering					
Major	11 th May 2009	Earthing of Substation	BCUD University of Pune, Pune	1,00,000=00	1,00,000=00
Major	15 th Feb. 2011	PLC Based Poka-Yoka 16 for Shaft Output	BCUD University of Pune, Pune	2,00,000=00	2,00,000=00
3) Department of Mechanical Engineering					
Sponsored project (Prof. J.Jaykumar)	2010-12	Study on mechanical properties of Mg/Al composites	BCUD	2 Lac	100% utilized
Sponsored project (Prof. R.R.Navthar)	2010-12	Stability analysis of hydrodynamic journal bearing & Development of Feedback control system for stability of film thickness	BCUD	2 Lac	80% utilized
Sponsored project (Prof. J.Jaykumar)	2013-16	Fabrication of Mg Nano composites reinforced with multiwall carbon Nanotubes	AICTE, Govt. of India	11.5 Lac	96% utilized
Sponsored project (Dr.H.N.Kudal) Prof.A.R.Kachare, Prof.S.M.Magar	2013-16	Experimentation & Numerical Simulation to Improve Performance of Helical Coiled Tube Heat Exchangers	BCUD	2.30LAC	80%

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 facilities available to the students and research scholars:

Sr.No	Name of Equipment	Make	Model	Year of Purchase	Used for
1) Department of Civil Engineering					
1	Auto CAD Education suite software	2010 make		2010	For practicals & Project work
2	Build Master, Road Master, Rate Analysis, Steel Master software			2010	For practicals & Project work

3	SCAADS/ Building Estimator software	2007 make		2008	For practicals
4	Pentax Total station	PCS-325		1999	For practicals, Project
5	Electronic Digital theodolite	SETL MAKE	SDJ-02	2006	project work
6	Laser level			2011	consultancy work
7	Dust sampler	NPM-HVS/R		2007	For practicals
8	Universal testing machine	FSA make FWT		1985	consultancy work
9	Toshroiwal Digital Ultrasonic Concrete tester	MT03-A		1991	For practicals & Project work
10	Torsion testing Machine	TT-10		2007	For practicals
11	Interface Friction measurement Apparatus	AIM 244		2012	Project work
12	Interface Friction measurement apparatus	AIM 245		2012	For practicals
13	AMIL 1 Pore Pressure Apparatus	AIM 078		2012	Project work
14	AMIL Constant Pressure System oil ,Water single Cell	AIM 081 - 1-2		2012	For practicals
15	Sensitive Volume Change Gauge	AIM 084		2012	Project work
16	Constant Pressure System Oil Water 2 cell	AIM 081 - 1-2		2012	For practicals
17	Permeability Test Apparatus	As per IS2720 part XVII		2012	Project work
18	Relative Density Apparatus	AIM 115-1		2012	For practicals
19	Concrete Test Hammer Digital Silver Schmidt			2014	BE & ME students
20	Vertical Shake Table with Oscilloscope Amplifier Conditioners Accelerometers			2014	For research work
21	R- Cube Concrete Mix Design Software			2014	ME students
22	Etabs Ultimate 2013 Education & Research Liscence			2014	ME students
23	Bently Academic Staad Pro Software			2014	ME students
24	Sokkia Electronic Digital Planimeter		KP- 90N	2012	BE Students
2) Department of Electrical Engineering					
1	AC Linear induction motor 0.5hp 415v 1500rpm	M/S MD Electricals,Pune	AC Linear induction motor	21/02/2003	Lab

2	Variable frequency drive with motor 0.5hp 3ph 415v 4pole&2pole	M/S Electrical Engg Co, Mumb	Variable frequency drive	03/11/2006	Machine lab Practical
3	A.C High voltage transformer 60kva	M/S High Voltage India Bangalore	A.C High voltage transformer	1/080/2000	Machine lab Practical
4	0-100 kv oil testing kit	M/S High Voltage India Bangalore	oil testing kit	1/080/2000	Machine lab Practical
5	Auto range digital earth resistance tester	M/s electron Devices Kanpur	earth resistance	2/03/2009	Measurement of earth resistance and consultancy
6	Microprocessor based cable fault localizer (0-10mag)	M/s electron Devices Kanpur	cable fault localizer	2/03/2009	Finding cable fault and consultancy
7	Simulation model of long transmission Line 230v 1ph 50 hz 1A	Deepak Electricals ,Pune		26/03/2002	Lab Practical
8	Simulation model of medium Transmission line 230v 1ph 50hz 1A	Deepak Electricals ,Pune		26/03/2002	Lab Practical
9	DC network analyzer base kva 20mVA basekv 20KV base impedance 2000 Ω	Deepak Electricals ,Pune		26/03/2002	Lab Practical
10	E tap power station software 5 user Educational version make OTI VSA	KLG system Ltd Gurgaon		34/11/2006	Lab Practical
11	Matlab software version-2007 at Licence no. 344845 matlab 10 users Simulink 10 users control system tool Box 10 users fuzzy logic tool box 2 Users nutral network tool box 2 user	India soft technology Pvt Ltd Pune	Matlab software version-2007	29/03/2007	Lab Practical
3) Department of Electronics and Telecommunication					
1	MATLAB(2010B)	ADCC Infocad pvt.ltd.	Matlab 11-B 5user	22/10/2011	Practical's and research work
2	Multisim V.11	Trident techlabs pvt.ltd	10 user	15/11/2011	Practical's and research work
4) Department of Instrumentation and Control					
01	UV-VIS Spectrophotometer	Systronics, Ahmedabad	No. 108	23/4/2000	Analytical Lab.
02	Atomic Absorption Spectrophotometer	Chemito, Mumbai	AA201	17/05/2007	Analytical Lab.

03	Digital Polygraph	Pamtrons,Mumbai	452A	30/01/2006	Biomedical Lab.
04	Fiber Optic Trainer Kit	Falcon,Mumbai	Fiber Link	20/01/2000	Photonics Lab.
05	Universal Process Control Trainer	Apex,Sangali	Code-330	28/06/2012	Process Instru.Lab.
06	Programmable Logic Controller	Messung,Pune	Nexgen2000	30/11/2006	Process Instru. Lab.
07	Distributed Control System Trainer	Honeywell,Pune	H.C900	05/08/2010	Process Instru. Lab.
5) Department of Information Technology					
01.	Server	HP	HP Proliant ML 350 G5L Tower Model, Xenon Processor,Quade E5410(2.33 GHZ)12MB level 1cache,5300	2009-10	Projects
6) Mechanical Engineering					
1	Triplee Multicylinder petrol Engine Ambassdor	Triplee	10 HP & 1500 RPM	1989	For practicals & Project work
2	Ductility Testing Machine	M/S Sharma scientific co.		2013	Lab Practical
3	Vacume Stir Casting Furnace	V B Ceramic consultants		2013	Lab Practical
4	Tubular Sintering Furnace	V B Ceramic consultants		2013	Lab Practical
5	Planetary Ball Mill	V B Ceramic consultants		2013	Lab Practical
6	INDUS Smoke Meter Compelte Trolley. Sr. No. 01193 & INDUS 2 Gas Analyzer Complete With Sampling Probe Built In Inflow Meter, Printer Rs 232 Interface	INDUS scientific PVT LTD.	Range is CO=0-15% HC=0-10000RPM CO ₂ =0-20%	2003	For practicals & Project work
7	Multi cylinder Diesel Engine Gen Set Test	Triplee & Kirloskar	10HP & 1500RPM	1989	For practicals & Project work
8	Vapour Absorption cycle Test Rig	S.P.Engineers Pune		2007	For practicals
9	Computerized Multi-Fuel research Engine set-up	Apex innovation PVT.LTD.		Feb 2014	For practicals & Project work
10	Steam Turbine Test Rig	ELITE Engineers	Working Pressure=15.04	2008	For practicals & Project work
11	Water Softner-				For practicals

	model AQUASOFT-005'				& Project work
12	Non IBR Steam Boiler of cap 400kg/hr with working pressure of 15kg/cm ² Model- 'Steampack-400'				For practicals & Project work
13	Portable ultrasonic flaw detector model 4400				For practicals & Project work
14	CNC lath trainer H – E-125 CNC-PC	Hi-Tech Education equipment Pvt, Ltd.	CNC lathe trainer	2000	For practicals & Project work
15	Jash accord series pridge type 3 D – CO-ORDINATE MEASURING MACHINE	Jash precision tools Ltd.	With air dryer	2001	For practicals & Project work
16	Auto Collimater model ACT- 01 S Auto Collimater single axis with standard mirror ACC – 3 SPC	Prism India Pvt Ltd	Pipe make model SN:140	2008	For practicals & Project work
17	Triplee Vertical Shaft Kaplan Turbine test ring complete set.	Triplee Engg equipment Enterprises,Coimbatore	6000LPM discharge,5HP	12/02/1990	For practicals & Project work
18	I- DEAS Master seres 8.0	ARJ Asia	02 Nos	2001	For practicals & Project
19	Intellicad software				For practicals & Project
20	HP DESIDN JET 500 PLUA AD COLOUR	Sujata Computers	01 Nos	2006	For practicals & Project
21	AnsysSoftware	AnsysSoftware Pvt Ltd New Delhi	30 user	2007	For practicals & Project
22	Catia V5 R16 Software	EDS Technologies Pvt Ltd	Qty=1	2006	Project work
23	Auto Cad 2012	ADCC Infocad Pvt Ltd	10 user	2011	Project work
24	Journal Bearing Test Rig.	Ducom Instruments Pvt. Ltd. Bangalore	TR-60	2013	For practicals
25	Wear and Friction monitor	Ducom Instruments Pvt. Ltd. Bangalore	TR-20LE	2013	Project work
26	FFT	Abro Technology Pvt Ltd .New Delhi	COCO-80	2013	For practicals
27	Epicyclic Gear Train	Data Cone Equipments, Sangali	--	2014	Project work
28	Single Plate Test Rig.	Data Cone Equipments, Sangali	--	2014	For practicals

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?

Institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers are:

- Developing collaborative laboratories with state-of-the-art equipments.
- Developing interdisciplinary laboratories viz mechatronics, renewable energy, robotics.
- Encouraging faculty and students to attend research programmes, workshop, and seminars.
- Motivating faculty members to attend national/international conferences conducted in the Institute and at other organizations. Institute provides registration fee, conveyance, on-duty leave.
- Encouraging faculty members to organize research workshop, seminars, and conferences with funding internally and from AICTE/DST/DRDO.

The Research committee keeps in touch with the recent trends in the research oriented programmes. The library of the institute is enriched with wide range of books and various national and international journals. Online IEEE, ASCE, ASME, Springer & Science Direct journals are also accessible to the researchers. Successful completion of research programmes leads to appreciation and academic carrier building. High bandwidth Internet facility along with Wi-Fi connectivity is provided in the campus to the faculty and students for carrying research works.

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.

Special grants received from outside agencies for research or its support is given below:

Industry/Agency	Amount Granted	Facilities Created
1) Department of Mechanical Engineering		
QIP, University of Pune	1,02,150/-	Ductility Testing Machine
AICTE, Govt. of India	5,00,000/-	Vacuum Stir Casting Furnace
AICTE, Govt. of India	1,00,000/-	Tubular Sintering Furnace
AICTE, Govt. of India	4,00,000/-	Planetary Ball Mill
Modrobs Scheme	12,00,000/-	FFT Analyzer

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

Institute has taken initiative in establishing research activities and training programs in collaboration with following esteemed industries.

Department of Electronics and Telecommunication

VRD ,Ahmednagar
JAHAGIRDAR AIRO Product

Department of Information Technology

Sr.No	Name of Company	Address/Location
1	Maharashtra Center for entrepreneurship Development	Ahmednagar
2	Virscent Technology & E-Cell of IIT Kharagpur	Kharagour
3	Bits System private Ltd.	Pune
4	IACM	Pune
5	Geeks Lab Technologies	Nashik
6	Prygma Information System	Pune
7	Savy Softwares	Pune
8	I-Brain Softwares	Ahmednagar
9	CMS Infosystem	Mumbai

Department of Instrumentation and Control

1.Larsen&Tubro Ltd,Ahmednagar

Department of Mechanical Engineering

Amol Enterprises,MIDC Ahmednagar
Kandekar Engg & Welding Works, MIDC Ahmednagar
HI-Tech Engineers, MIDC Ahmednagar
Dhanjay Industries, MIDC Ahmednagar
Kaizen Engineers MIDC Ahmednagar
SPOK Technologies Pune
Sheeji Process Engg Works Ltd.
Bhavsar Foundries MIDC Ahmdnagar
ISMT LTD MIDC Ahmednagar
Hoganas MIDC Ahmednagar

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

Institute has an information hub in the form of central library, central computer centre and departmental library which serve the needs of researchers.

The facilities are:

➤ **Central library**

No of Books	No of Journals	No of CDs	No of periodicals	Online Journals
41468	74	31	74	600

➤ Also every department is maintaining a departmental library with all facilities.

No of Books	No of Journals	No of CDs	No of periodicals	Online Journals
Department of Civil Engineering				
1000	--	31	-----	107
Department of Electrical Engineering				
4011	06	150	05	200
Department of Electronics and Telecommunication				
439	129	Nil	Nil	122
Department of Instrumentation and Control				
325	01	50	-----	-----
Department of Information Technology				
366	NA	10	NA	NA
Department of Mechanical Engineering				
1100	----	----	-----	-----

➤ **Central Computer Centre**

Internet with e-mail and browser facility has been provided to the students. College is having a 32Mbps Internet connection, which is freely available to them 24 hours.

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

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.

Research studies benefiting the community or improving the services are made and following publications are the result:

Name of Department	Journal		Conference		Books Publisheed	Patents
	National	International	National	International		
Applied Science Dept	3	6	3	2	-	-
Department of Civil Engineering	14	5	NIL	7	-	-
Department of Electrical Engineering	-	-	-	-	-	-
Department of Electronics and Telecommunication	01	23	04	18	-	-
Department of Instrumentation and Control	-	01	NIL	01	-	-
Department of Information Technology	-	18	06	11	-	-
Department of Mechanical Engineering	08	21	21	10	-	-

Student Publications

Name of Department	Journal		Conference	
	National	International	National	International
Department of Civil Engineering	-	-	03	-
Department of Electrical Engineering	-	-	-	-
Department of Electronics and Telecommunication	-	-	146	-
Department of Instrumentation and Control	-	-	05	-
Department of Information Technology	-	-	18	-
Department of Mechanical Engineering	-	-	04	-

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?

Department of Mechanical Engineering is in the process of starting a journal and the details are as below.

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 E.g.: 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

Details of faculty publication and related issues are given below:

Name of faculty	No of Publications				Books/Monograph/ Chapter Published	Patents
	Journal		Conference			
	National	International	National	International		
Applied Science Dept						
S. D. Devkhile	2	-	-	-	-	-
P.A.Khubchandani	-	-	1	-	-	-
J.A.Khubchandani	-	-	1	-	-	-
S. J. Halnor	-	6	-	-	-	-
S. S. Desai	-	-	-	2	-	-
A .A. Mancharkar	1	-	-	-	-	-
Department of Civil Engineering						
U. R. Kawade	1	-	-	2	-	-
A. J. Shirke	-	4	-	2	-	-
V. R. Kulkarni	1	-	-	-	-	-
M. P. Wagh	2	-	-	-	1	-
N. A. Patil	-	-	-	-	-	-
S. N. Daule	-	-	-	-	-	-
P. B. Autade	-	-	-	-	-	-
M. V. Gunjal	1	-	-	-	-	-
A. A. Sengupta	2	-	-	-	-	-
P. K. Bhandari	4	-	-	-	-	-
A. A. waghmare	2	-	-	-	-	-
A. R. Take	-	1	-	-	-	-
P. A. Salunkhe	1	-	-	-	-	-
A. H. Shirke	-	-	-	-	-	-
D. S. Patare	-	-	-	-	-	-
S. L. Asawa	-	-	-	-	-	-
N. M. Mulik	-	-	-	1	-	-
V. A. Yeole	-	-	-	-	-	-
A. H. Jamale	-	-	-	-	-	-
P. A. Chavan	-	-	-	1	-	-
B. A. Kanawade	-	-	-	1	-	-
Department of Electronics and Telecommunication						
Prof. S.S.Magar	-	--	-	-	-	-
Prof. A. K. Patil	1	09	-	04	-	-

Prof. V. G. Kale	-	04	-	-	-	-
Prof. N.M.Deshpande	-	-	-	-	-	-
Prof. J.P.Botkar	-	-	01	01	-	-
Prof P.P.Bhalerao	-	01	-	01	-	-
Prof.A.R.Landge	-	01	-	-	-	-
Prof. S.R.Udawan	-	-	-	-	-	-
Prof.V.A.Dhawale	--	01	-	-	-	-
Prof.C.K.Kalawade	-	01	-	-	-	-
Prof. R.J.Lawande	-	01	-	-	-	-
Prof.P.B.Varpe	-	01	-	-	--	-
Prof.S.J.Wamane	-	02	-	01	-	-
Prof.Pawase T.N.	-	01	01	02	-	-
Prof Bharadi S.G.	-	-	-	01	-	-
Prof. Khakal V.S.	-	01	-	01	-	-
Prof.Gholap S.B	--	-	-	-	-	--
Prof. Thorat P.S.	-	01	01	-	-	-
Prof. Nibe S.R.	-	01	-	-	-	--
Department of Instrumentation and Control						
Prof.A.R Laware	-	01	-	-	-	-
Prof.R.A Darandale	-	-	-	01	-	-
Department of Information Technology						
D.A.Vidhate		8	-	9	-	-
Ms. M.N.Kale		1	1	-	-	-
R.G.Raut		2	2	-	-	-
Ms.A.B.Bavane		1		-	-	-
G.M.Dahane		2	2	1	-	-
Ms.S.S.Pophale		2		1	-	-
A.A.Pund		-	-	-	-	-
Ms.M.S.Gunjil		--	1	-	-	-
Ms.J.P.Gaidhani		1	1	-	-	-
Ms.P.S.Gayke		2	-	-	-	-
Department of Mechanical Engineering						
Dr.H.N. Kudal	02	05	03	05	04	-
Dr. K. B. Kale	-	02	02	04	04	-
R R Navthar	-	06	-	02	-	-
P A Narwade	-	04	02	01	-	-
S M Magar	-	02	-	02	01	-
J Jaykumar	01	06	01	03	-	-
R E Kalhapure	-	-	-	-	-	-
A R Kachare	01	-	03	-	-	-
A D Kachare	-	-	-	-	-	-
R S Waghmare	-	-	01	-	-	-
K M Markad	-	02	02	-	-	-

V P Patekar	-	02	02	-	-	-
B T Tagad	-	-	01	-	-	-
M S Chopade	-	-	01	-	-	-
C R Shah	-	-	02	-	-	-
A V Suryavanshi	-	-	-	-	-	-
V Y Dhepe	-	-	01	-	-	-
M M Bidwe	-	-	-	-	-	-
A D Pathak	-	-	-	-	-	-
D B Thange	-	-	-	-	-	-
S S Gadhe	-	-	01	-	-	-
K S Kadam	-	-	01	-	-	-
Y S Pathare	-	01	01	-	-	-
P G Kohak	-	-	-	-	-	-
S K Kadu	-	01	-	-	-	-
M A Kadu	-	-	01	-	-	-
S B Kharde	-	02	01	-	-	-
S G Kotakar	-	01	01	01	-	-
S S Vyavhare	-	-	01	-	-	-
P G Kalawade	-	-	-	02	-	-
D K Nannaware	-	01	01	-	-	-

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

Sr. No.	Faculty	Professional Membership
Department of Civil Engineering		
1	Prof. Mrs. U. R. Kawade	AMIE, ISSE, ISTE
2	Dr. A. J. Shirke	MISTE, GSI, AIE, ISRMIT
3	Prof. V. R. Kulkarni	MISTE
4	Prof. M. P. Wagh	AMIE, HDUG, LMISTE, ISRMTT, IAHS
5	Prof. N. A. Patil	MISTE
6	Prof. S. N. Daule	AIE
7	Prof. P. B. Autade	ISTE, AMIE, ISSE
8	Prof. N. M. mulik	AIE
Department of Mechanical Engineering		
1	Dr. K B Kale	MIE, LMISTE
2	Dr. J C Burse	AMIE, LMISTE
3	Prof J Jayakumar	FIE, LMISTE, FISME, PMAI, ISCSIT

4	Prof R R Navthar	FIE, ISTE
5	Prof S M Magar	FIE, ISTE
6	Prof R E Kalhapure	ISTE
7	Prof P A N Arawade	ISTE, IIE
8	Prof A D Kachare	AIE

3.5 Consultancy

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

The institution has Training & Placement Cell and an Entrepreneurship Development Cell that encourage forging a relationship between the industry and the institution. Individual department interacts with industry to ascertain its needs to fill the gap in curriculum. The gap is filled by arranging workshops by industry personals. Training and placement officer interacts with industry and arranges campus interviews. The institute has strong alumni support who is currently working in industries having good track records; this is helping the institution for placement of the students.

Industry institution relationship works in the following areas:

Industrial Visits for students and faculties

- In plant training of students
- Consultancy and sponsored projects.
- Educating the working engineers by interacting with faculty members.
- Expert lectures by industry personals for UG & PG students.
- Provision of laboratories & institute infrastructure for the industry to achieve their
- targets.
- Conducting joint technical programs & events.

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

Consultancy work is at the top priority of the institute. Consultancy works are carried with outside agencies/industries to provide solution to industrial problems through sharing of expertise, laboratory & library facilities.

Expertise are advocated and publicized in the following manner:

- a) Updated literature about the institution is periodically sent to the prospective companies to highlight the latest achievements /advancements made by the faculty including the addition of facilities.
- b) Institute encourages faculty members with adequate research experience for providing consultancy to industry. T&P cell also explores the possibility of collaboration during their interaction with various industries.
- c) The concerned faculty members are provided on-duty leave while the consultation work is underway.
- d) Major areas of expertise are advertised through college website and also through technical events/programmes.

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

The institute motivates the professionally qualified faculty to utilize their expertise for consultancy services with the permission of the institute. This helps in promoting liaison with industry/ companies;

- Faculty members who are expert in specific field are encouraged for executing consultancy works with the industries by offering maximum share of revenue generated through consultancy work.
- Special consideration is given to the expert during appraisal
- Faculty members are encouraged to obtain consultancy work through their personal contacts and visits to industries.

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

Year	Project Title	Project Coordinator	Duration	Project Cost Rs
1. Department of Civil Engineering				
2011	Consultancy through Testing of Materials Laboratory	P.B.Autade & S.N.Daule	1 st Jan to 31 st March	4,400
			1 st April to 30 th June	6,200
			1 st July to 30 th Sept	4,150
			1 st Oct to 31 st Dec	64,170
2012			1 st Jan to 31 st March	28,350
			1 st April to 30 th June	51,300
			1 st July to 30 th Sept	44,500
			1 st Oct to 31 st Dec	2720
2013			1 st Jan to 31 st March	33,250
			1 st April to 30 th June	65,000
			1 st July to 30 th Sept	68,500
			1 st Oct to 31 st Dec	4,400
2014			1 st Jan to 31 st March	20,250
			1 st April to 30 th June	23,000
			1 st July to 30 th Sept	42,550
			1 st Oct to 31 st Dec	1,01,400
2015	1 st Jan to 31 st March	20,250		
2013	Through RCC proofing check of Building & ESR, GSR and Jack well	P.K.Bhandari	--	1900
2014			--	9250
2011	Water testing consultancy under Environmental Laboratory	V. R. Kulkarni	--	20,847
2012			--	13,000
2013			--	6,000
2014			--	5,000

	Geotechnical Engineering Consultancy	M.V.Gunjal & A.H.Shirke		
2. Department of Mechanical Engineering				
2011-12				
1	Steam Lab	Prof R S Waghmare	2014(VA COE)	
2012-13				
1	Steam Lab	Prof R S Waghmare	2014(VA COE)	
2013-14				
1	Steam Lab	Prof R S Waghmare	2014(VA COE)	
2	Steam lab	Prof R S Waghmare	2014(Samarth College of Engg)	
2014-15				
1	PG lab Consultancy	Prof R R Navthar	11/07/2014 to 15/07/2014	8450/-
2	PG lab Consultancy	Prof R R Navthar	20/12/2014 to 17/03/2015	15200/-
3	Material Science lab	Prof J Jayakumar	26/12/2014 to 12/03/2015	4700/-

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 income generated through consultancy is on the ratio of 50:50 (Staff: Institute). The financial revenue is used for R&D and spent in upgrading the research facilities of the concerned department.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

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

The institute management always motivates student's participation in social activities and drives for adhering to ethical values. The institute ensures holistic environment amongst the students as well as staff to make them responsible citizens. The institute is conscious of its role in campus community connection, wellbeing of its neighborhood community and has initiated a number of community development activities. These activities includes,

- Organizing cleaning camps at nearby villages through NSS.
- Involving students in Blood Donation Camps.
- Making the college playground available to neighboring communities on weekends and allowing for hosting sports to nearby institutions.
- Conducting the flag hoisting at national festival.

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

The institute is committed to attract students for participating in various social activities by ensuring consistent encouragement and motivation. The institute organizes every year adopting a village Jakhangaon for cleaning drive through NSS programe. Blood donation camps are organized. AIDS awareness programs are conducted for local villagers.

Considering the importance of computer knowledge in this era of computerization we provide easy and cheap access to computer education to our support staff and people of nearby community.

- Institute has mentor (faculty advisors) scheme and Student's Association coordinator through which the students' involvement in various social activities are observed.
- Mentors record the student achievement in such extension activities in the respective advisor file.
- Extra-curricular activities and value education provide avenues to students to become aware of the social environment, the social evils, citizen responsibility and individual contribution to make the society a better place to live.

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

The goals and objectives of the institute are prominently displayed in the Information Bulletin given to the students at the time of admission. The College web site provides adequate space to these goals. They find place in all the offices of the college, library and other major buildings of the college. Immediately after admission the students are made aware of these goals and objectives by conducting orientation program. The institute Academic Advisory Committee in the planning process considers feedback collected from all the stakeholders to prepare perspective on development. These developments prospective are discussed in the respective committee. The reflections off the meeting are incorporated in the plan. The management has developed evaluation tools for stakeholders to record their opinion, suggestions and objection for constructive developments for future. Institute is highly concerned with its stakeholders. Institute

solicits both internal (board members, staff members, etc.) and external (Clients, Community partners, public, or private sectors) stakeholders' perception on the overall performance and quality of the institute.

- The external stake holders are invited to visit the campus and visually inspect its infrastructural facilities, interact with the members of faculty to obtain necessary information on the overall performance and quality of the institute.
- Parent-Teachers meeting are conducted to know about academic performance and quality of their wards and to provide constructive suggestions to improve the overall performance and quality of their wards and quality of institution.
- Periodically performance reports are being sent to the stake holders through, emails, web publication and letters.

Students:

- We value the opinions and needs of our students. One student of each Class is nominated as Class Representative. He / She communicates students' requirements and problems to the respective teacher/ head of department/ Principal. Institute has Counseling Cell in which faculties act as a mentor for 20 students. Suggestion /Complaint box is placed at various places on the campus which are easily accessible to students.
- Students have the freedom to approach the HOD /Principal during working hours without prior appointment for their problems.

Parents:

- Teacher/ head of department/ Principal interact with parents and guardians regularly.
- They are informed about their wards academic performance and attendance records through meetings, letters and phone calls.
- Direct interaction of the parents/guardians with the Teacher and H.O.D. is also organized through parents meet.
- Opinion of parents is considered with respect to various aspects such as planning of industrial visits, cultural programs etc. are valued.
- Parents of any student are allowed to meet the teachers, Coordinators and Principal on any day of the week at any time to make any suggestions or complaints.

Staff:

- We have regular staff meetings to keep the staff updated about changes and developments of the institute.
- Most of the decisions are taken only after consultation with the staff during staff meeting.

Alumni:

Institute has constituted an alumni Association with a Professor In-Charge. The association organizes meetings and has regular formal and informal interactions wherein any alumnus is free to give their suggestions.

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.

The institute is incessantly organizing a number of outreach activities which relate to academic, social, cultural, community service, adventure, etc., and all culminating in building a healthy society contributing to nation building. The institute has conducted several blood donation camps and tree plantations.

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 college performs various activities through Students' Associations and other forms of community development services. During induction, the coordinators of these sections narrate to the students on the benefits and scope of the extension activities. The information about the proposed activities is disseminated on the college notice board, circulars, web notifications, and also by oral interaction / briefing by the section in charges. Women Empowerment Cell to bring awareness among the people.

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?

The college through its extension activities promotes and imbues students with social justice and responsibility. The active participation of students in social service activities gives them an opportunity to understand the life style and standard of living of the underprivileged and their not so well to do peers thereby instilling a feeling of empathy and courteousness.

The following programmes are conducted by the college as part of extension activity :

- Annual Rural Camps enable the volunteers to get a feel of life in the rural areas through interaction with the local people, understanding their problems, encouraging their children to enroll in schools, teaching the children various sports and games, distributing books, stationery items, sport and games equipment in the adopted villages.
- Tree plantation programme, Clean and Green programmes, creating awareness about protection of environment are taken up by the volunteers.
- Participation of volunteers in Blood Donation Camps.
- The volunteers derive hands-on experience in social service on their visit to the adopted villages under Social service activity, Go-Green and Hands-Together. During this visit /camps, the children, youth and elders of the villages are imparted value education; awareness programmes on importance of education, sports and games, cleanliness, hygiene, clean drinking water facilities, tree plantation, etc.,
- On the campus, there is an auditorium which is normally used to present some of the student's talent like classical music, drama, dance, etc. Whenever the institution organizes such programs there is a good response from the community.
- Students from various departments are deputed to various industries for practical training on environmental aspects in industries.

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.**Objectives:**

Keeping in line with the mission of the institution to impart wholesome holistic learning to the students thereby making them responsible citizens, the extension activities conducted by the institute always imbibe academic learning experience, values and skills not only in students but faculty too. These activities refresh the environment of the institute as well. The major strength of this institute is its ability to ensure holistic development of students to make them enlightened citizens.

The institute is an 'equal opportunity' institution established to provide knowledge and quality education to all sections of society.

It aims to maintain modern outlook with contemporary developments without compromising moral values. To provide knowledge and quality based education to the students by inculcating moral values, scientific temper and employing state of the art technologies.

It aims to pursue excellence towards creating manpower with high degree of intellectual, professional and cultural development to meet the national and global challenges.

Outcome:

The results of the participation in the various socially relevant activities have resulted in inculcating the feeling of being socially awakened citizens in the students. The students who have been a part of this process have been spreading awareness in the institution and motivating other students as well to stand tall for the cause of social upliftment.

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 institution is roping in communities to actively participate in all the extension activities. This has contributed to both community- institution networking and development of institutions.

- The local villagers are initially consulted and the youth of the villagers are made to involve in all the Social activities.
- Extensive local participations are witnessed during tree plantation, blood donation etc. the alumni association is also involved in all these extension activities.
- The institution has taken the initiative to make aware the society about social and health problems like female foeticide, dowry system, environment protection, consumer protection awareness, HIV awareness, anti-tobacco and cleanliness, awareness etc.
- Time to time survey is conducted to check the feedback and improvement in society.

- Seminars, individual discussion and group discussion are made to solve these problems.

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.

The institute has adopted a nearby village Jakhangaon and cleanliness drive is organized every year through NSS programe. A group of students involves in cleanliness and organize awareness camps to the villagers.

Year	Name of camp	Date/ Duration	Details of work undertaken camp	Place of camp
2011-12	7 day camp	16 th to 22 nd Jan 2012	Layout plan of village prepared and submitted to Gram panchayat Excavation of Soak pit for ZP school	Sarola Baddi
2012-13	7 day NSS special winter camp	13 th to 19 th Jan 2013	Layout plan of village and estimation of road work	Jakhangaon
2013-14	7 day NSS special winter camp	10 th to 16 th Jan 2014	Preparing Layout plan of village and showing Drainage and waterline for ZP Ahmednagar waterline laying work	Jakhangaon
2014-15	7 day camp	24 th to 31 st Dec 2014	Preparing Layout plan of Darewadi village	Darewadi

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.

1. Prof.Mrs. .S.Magar received 'Best Lady Engg 'Award by IEI,Ahmednagar

Sr.No	Name of the award	Year
01.	Indradhanu magazine Second Prize , University of pune	2011-12
02.	Indradhanu magazine Second Prize , University of pune	2012-13
03.	Indradhanu magazine Second Prize , University of pune	2013-14
04.	Memento from Grampanchayat Darewadi- for organizing NSS camp.	2013-14
05.	Honor Icon from Deshdoot News paper for sponsoring in education fair.	2012-13
06.	Honor Icon from Rashtriya Yuva Ekatmata Shibir for participation of students.	2012-13

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 has collaborated with many industries, R&D organizations and other institutions for mutually beneficial relationships that include faculty development programmes, extra-curricular & co-curricular programmes for students; sharing of physical resources etc. The Research and Development Cell, Department Associations, Career guidance Cell, Entrepreneur Development Cell in collaboration with professional society bodies such as ISTE, IEEE, and Maharashtra Entrepreneurship Development Office etc., organizes seminars, workshops, symposiums, and Project Expo to create research interest. The following table shows the details of some of our partnerships.

Sr.No	Organization	Area of Collaboration and Benefits
Department of Civil Engineering		
1	Institute of Engineers, Ahmednagar Local Center	1. Organizing Student Paper presentation competition 2. Funding for Seminar & Workshops
2	Ahmednagar Railway Station	Conduction of Industrial Visits
3	Water Treatment Plant, MIDC Ahmednagar	Conduction of Industrial Visits
4	Irrigation Department- Ahmednagar/Aurangabad	Conduction of Industrial Visits
Department of Electrical Engineering		
1	Municipal corporation Ahmednagar.	Street Light for Energy Saving aspect.
2	MSDCL	Transformer Oil Testing, To measure its Break down strength
3	MSDCL	Cable Fault Finding by cable fault analyzer
Department of Instrumentation and Control		
1	MPKV, Rahuri.	Agriculture Instrumentation for Project
Department of Mechanical Engineering		
1	HI-Tech Engineers, MIDC Ahmednagar	Conduction of Industrial Visits
2	Sheeji Process Engg Works Ltd.	Conduction of Industrial Visits
3	Bhavsar Foundries MIDC Ahmdnagar	Conduction of Industrial Visits
4	Kinetic Engg Works, Ahmednagar	Conduction of Industrial Visits
5	Klassic Wheels India PVT LTD, Ahmednagar	Conduction of Industrial Visits

3.7.2 Provide details on the MOU/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.

The institute has signed MOUs under various organizations for academic development and activities like training & placement, skill based training, soft skills etc. the list is appended below:

Sr.No	Name of the Company	Date of MOU
Department of Civil Engineering		
1	Er. Avinash Kulkarni (Structural Engineer)	
2	Er. P.A. Chhallare, Sri Sai Construction (Ahmednagar)	
3	Er. Pratap Kale, Unique Group (Nashik)	
4	Er. Amadas Lodhe (Ahmednagar)	
5	Er. J. P Vidhate (Omkar Construction)	
6	Er. Dadasaheb Berad (aaditya Constructions)	
7	A.C. Kothari (Road Contractor)	
8	Shrikant joshi	
9	Ajit Khandeshe	
10	Er Satish Shinde (Structural consultant)	
11	Er. Satish Kamble (Consulting Civil Engineer)	
12	Er. Makarand Kulkarni (Marc Constructions)	
13	Kaamod L. Kharade (Sound Engineer)	
Department of Electrical Engineering		
01	Prof. P.A. Laxamanayya (I.M.S.Ahmednagar)	2013-14
02	Mrs. Babita Jaggi, Prominent Speaking English Institute, Ahmednagar	2014-15
Department of Electronics and Telecommunication		
1	Hogonas India Pvt. Ltd., MIDC, A'Nagar	2011
Department of Instrumentation and Control		
1.	Hogonas India Pvt. Ltd. D96/97	2011
2.	Tantradnyan Engineers	2011
3.	Enlighten Education Society	2011
4.	Larsen & Toubro Limited	25/10/2011
5.	Infinity Engg. Solution	15/10/2011
Department of Mechanical Engineering		
1.	Salasar Wheels PVT LTD ,MIDC Ahmednagar	2010
2.	Amol Enterprises,MIDC Ahmednagar	2011
3.	Kandekar Engg & Welding Works, MIDC Ahmednagar	2011
4.	HI-Tech Engineers, MIDC Ahmednagar	2010
5.	Dhanjay Industries, MIDC Ahmednagar	2010
6.	Kaizen Engineers MIDC Ahmednagar	2010
7.	SPOK Technologies Pune	2011
8.	Sheeji Process Engg Works Ltd.	2011
9.	Bhavsar Foundries MIDC Ahmdnagar	2009
10	Pad Dr Vitthairao Vikhe Patil Sahakari Sakhar Karkhana Ltd., Pravaranagar,Rahata	2009
11	Godavari Khore Namdeoraoji Parjane Patil Taluka Sahakari Dudh Utpadak sangh LTD,Kopargaon	2008

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.

Each department has signed MOUs with industries related to their area of interest which covers in plant training to the students, faculties, sponsored projects, organizations of training program and workshop.

Sr.No	Name of organization/Industry	Contribution/Benefits
Department of Civil Engineering		
	Sun Pharmaceuticals	Conduction of Industrial Visits
	Epicons Consultants Pvt. Ltd. thane	Project training BE Civil Students
Department of Electronics and Telecommunication		
1	Akashwani Ahmednagar.	
2	1. Coca Cola Beverages India Pvt Ltd. Wada, Thane 2. Mapro Foods Pvt. Ltd, Wai Dist: Satara	Industrial Visit
3	1. Gadre Marine Export Pvt. Ltd. Plot No. EP-1 MIDC (Mirjole back), Ratnagiri-415639 ,Maharashtra.	Industrial Visit
4	S S control system, Valunj MIDC, Aurangabad	Industrial Visit
5	1. Manshu Comtel Pvt.Ltd.,MIDC, Satara. 2. Mapro Foods Pvt. Ltd, Wai Dist: Satara	Industrial Visit
6	Deepak Industries Pvt.Ltd.,Kolhapur	Industrial Visit
7	Electronic Test & development Center , (EDTC), Shivajinagar. Pune,	Industrial Visit
Department of Instrumentation and Control		
1	RCF, Thal Alibag	Industrial Visit
2	Co-co cola wada Mapro, Mahableshwar	Industrial Visit
3	RR Cable Silwasa	Industrial Visit
4	Co-co cola wada Mapro, Mahableshwar	Industrial Visit
Department of Information Technology		
01	DCS Mumbai	Industrial visit
02	GMDInfotech pune	Industrial visit
Department of Mechanical Engineering		
1	Sahib Cold Storage,MIDC Ahmednagar	Industrial Visit
2	Pumping Station , MIDC Ahmednagar	Industrial Visit
3	IGTR Aurangabad	Industrial Visit
4	KSPG, Ahmednagar	Sponsored Projects for Students
5	Kinetic Engg Works	Industrial Visit

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.

The institution is taking continuous efforts to attract the best minds of our country and abroad to visit the campus and interact with the student and faculty to create awareness on the various research opportunities in the emerging areas of science and technology. The following list indicates the names of some of the best academicians and researchers who have visited our campus in the recent past.

Name of Person	Designation	Place of Work/Organization	Date of Visit	Purpose of visit
Department of Civil Engineering				
Ajit radhakrishnan	Ultratech cement Ltd Pune		07/03/11	
Dr.Anilraj jagdale		Institute of science Kolhapur	14/09/11	
Shrikant joshi	Consulting Civil Engineer & Valuer	Gulmohar road ahemdnagar	15/09/11	Guest lecture
K.Nagraj	College of military engg		11/10/11	
S.R.Gavahane		Central railway ahemdnagar	30/07/12	
Dr.S.R.Mise		P.D.A COE Gulberga	06/09/12	
V.B.Paithankar		Central railway ahemdnagar	15/09/12	Guest Lecture
Annapurni ayyer		Meccafferri Indial LTD Mumbai	21/02/13	Expert Lecture
Dr.S.S.Bhosale		College of Engg Pune	21/02/13	
G.H.Shivkumar Babu		I.I.S.Banglore	22/02/13	
Dr.H.N.Ramesh		U.V.C.E.Banglore	22/02/13	
B.Muralidhar	SRO	CWPRS Khadakwasla Pune	12/02/14	
Deepak Kulkarni		Monarch Survey Engineering Pvt Ltd.	13/02/14	
Ramesh Kulkarni	Soiltech India Pvt Ltd. Pune		14/02/14	
Vinayak trivedi	Area Manager	Bently Software	19/3/2015	Faculty Interaction
Ajit Khandeshe	Consulting Environmental Engineer	KWAN Pvt Ltd Enviornmental solution Mumbai	9/1/2015	Expert lecture
Mr. Rohit Kumar	Environmental consultant	Research Scholar, IIT Powai	9/1/2015	Expert lecture
S.B.Digholkar	Engineer	Jivan pradhikaran Ahmednagar	9/1/2015	Guest of Honour for Workshop
C.R .Gajbhiye	Engineer	Jivan pradhikaran Ahmednagarc	9/1/2015	Guest of Honour for Workshop
Department of Electrical Engineering				
Er. Maske R N	Chief Engineer,	MSCTCL, Nashik	2011-12	Challenges in EHV / UHV power transmission technology
Mr. Sandip Sawant	Executive Director	Ideal innovative sol. Mumbai	2011-12	Resurgence Awakening of Youth

Er. Charuta Mule	DYM	C.G. Ltd. Ahmednagar	2013-14	Design of Induction Motor
Er. Sharadkumar Magar	Executive Engineer	Hoganas India Ltd., Ahmednagar	2014-15	Energy Audit & Scope of Energy Conservation
Er. Dilip Pawar	Executive Engg. in Design	Crompton Greaves Ltd., Ahmednagar	2014-15	Design & Testing of 3 phase Alternator
Department of Electronics and Telecommunication				
1.Er.Ajatshatru Somani. 2. Dr Girish Mundada	1.General Manager BSNL 2. Head Training & placement PICT Pune	PDVVPCOEA	16 th Jan 2015	Techno- excellence-2015
1. Rajesh Beldar 2.Dr.Stefan, 3.Dr Karin Ghaustavson	1. Dy Director Akashwani 2. Director Technology HOGANAS AB, SWEDAN 3. HOGANAS AB, SWEDAN	PDVVPCOEA	05 March 2014	Techno- excellence-2014
Er. G.R. M. Rao,	Scscientist E, VRDE, Ahmednagar	PDVVPCOEA	19 -20 th March2012	Techno- excellence-2012
Department of Information Technology				
Mr. Faiz Akthar	Professor	Wegilant IIT Bombay, Mumbai	27-28 th August 2014	Two Days Workshop on Web Development
Mr. Pratik Kadam	Professor	Wegilant IIT Bombay, Mumbai	25-26 th August 2014	Two Days Workshop on cloud Computing
Mr. Santosh Jain	Director	Kyrion Digital Securities	24-25 Aug. 2012	Workshop on ethical hacking and system security
Shubham Gupta	Professor	Virscnt Technology & E-Cell of IIT Kharagpur	17-18 Feb.2012 Two Day	Workshop on Web Designing and PHP
Department of Mechanical Engineering				
Dr.Manmohan Singh	Scscientist F, VRDE, Ahmednagar	PDVVPCOEA	19 March2012	Expert Lecture to BE Students
Dr Thipse S.B.	ARAI pune	PDVVPCOEA	12 July 2014	Expert Lecture to BE Students
Dr. Ramkrishnan	ISC Bangalore	PDVVPCOEA	27 Aug 2014	Expert Lecture to BE Students
Er. Ganesh Yeole	Scscientist, VRDE, Ahmednagar	PDVVPCOEA	5Jan 2015	Expert Lecture to BE Students

Dr. S.B.Singh	ITM DRDO Mhasuri Uttarakhand	PDVVPCOEA	13 Jan 2015	Expert Lecture to BE Students
Dr A K Shrivastav	Joint Controller,CQAV,Ahmednagar	PDVVPCOEA	23 Jan 2015	Expert Lecture to BE Students
Dr. J P Tiwari	Joint Controller,CQAE,Jabalpur	PDVVPCOEA	23 Jan 2015	Expert Lecture to BE Students

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.

Curriculum Development/enrichment:

The institute is an affiliated institution and the curriculum to be followed is prescribed by affiliating university. However the institute is actively participates in syllabus setting activity initiated by the university.

Internship/ On-the-job training:

The students of this institute undergoes vocational training in various industry during summer vacations. The faculties of this institute are also deputed for industrial training at their respective area of interest.

Summer placement:

Students are encouraged for summer placement at various organizations as well as state govt., central govt., PSUs.

Faculty exchange and professional development:

Lectures and other activities, by people from industry enthuse and enable students to get motivated in learning and research. Teaching and learning by the faculties of the institution enables the employees of the industry to become more proficient and efficient in their work. The linkages with industries, organizations and research institutions promote in

- Updating the knowledge of the faculty in emerging areas and getting trained in the latest technologies (developing E-content).
- Helping the faculty to develop relevant curriculum and to improve the quality of teaching
- Enabling the faculty to identify the thrust areas of research, to carryout collaborative research, to make use of the required equipments for research and to publish research articles collaboratively.

a. **Research:** Technical Training Workshops are regularly organized. New and Novel topics are suggested by the industry in emerging fields to students and faculties of the institution. The institution is benefited from the organization which is collaborated pertaining to research activities.

b. **Consultancy:** Faculties are encouraged to do consultancy work. They are given proper share in the consultation revenue. Please refer to consultancy section above for details.

c. **Extension:** The Extension activities undertaken by the institute have been with the collaboration of different organizations which have contributed more benefits to the institution. Please refer to section 3.6 for details.

d. **Publication:** The institute encourages publication for students and faculty members.

- Collaboration with libraries, both National and International, help the faculty and students in their research work.
- Collaboration with companies and industries throw open, new avenues of research.
- Collaboration with research institutions at national/international level helps in getting their expertise and research facilities to promote research and research publications.

e. **Student Placement:** Esteemed organizations regularly visit our campus for providing students placements regularly. Linkages are of great support in terms of Student Placement. "Science and Technology Capacity Building" for Industrial Needs program is sponsored by TNSCST (Tamil Nadu State Council for Science & Technology) Government of Tamil Nadu. Industrialists from various organizations are invited to conduct this program. The program focuses on the following skills which improves the

- Scope of placement.
- Leadership Skills
- Business Development Skills
- Risk Assessment and Management
- Public Speaking

f. **Twinning programmes:** NIL

g. **Introduction of New Courses:** PG in Mechanical-Design Engg.,

h. **Student exchange:** NIL

i. **Any other:** NIL

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

The institute has entered into an MOU with different industries listed in 3.7.2. The industry-institute collaboration goes hand in hand for organizing technical workshops on advanced topics, sponsored projects, in plant training.

Following are best practices of the institute in research, consultancy and extension to achieve best results:

- a. Industrial visits have been organized with the help of various collaborating agencies.
- b. The College practices the concept of teacher-led students' projects
- c. Deputation of faculty to take up advanced training in related institutions/industries
- d. The institute provides all required facilities to carryout research on a topic of his/ her choice and to have collaborations with any institutes

Lectures, key note address, invited speaker in workshops and symposiums.

g. The institute gives financial assistance to staff and students for publishing paper in reputed journals, participating in conferences etc., The institute gives special consideration to the staff members who publish papers in journals with high impact factors during appraisal.

h. Conducting joint technical programs and events with other organizations.

i. Planned and established linkages/collaborations related to academic and research activities for students and faculty members in various specializations.

j. Incentive to faculty at the rate of 60% of the consultancy amount.

k. Centre of research in Electrical, Electronics & Telecommunication, Mechanical and Computer Science.

l. Library facilities are available and 24 Hours internet facility to carryout research work.

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?

- Infrastructural developments are planned to meet infrastructure requirement for effective teaching and learning as per rules and regulations of AICTE, Government of Maharashtra and Savitribai Phule Pune University, Pune.
 - Being located at District Headquarter and near to industrial area, for the fulfillment of the requirement of technocrats, institute started direct second year courses and P.G. courses in Civil and Mechanical Engineering disciplines. In view of this, institute has newly developed 2000 sq. meters infrastructure.
 - Institute has planned spacious, well ventilated, environment friendly infrastructure to make students more comfortable during curricular, co-curricular and extracurricular activities.
 - While developing and enhancing infrastructure care has been taken to provide proper space for hostel accommodation for boys and girls, girls and boys common room, canteen, gymkhana, play grounds etc.
1. Spacious and well ventilated class rooms with provision of different teaching aids such as LCD, OHP, White boards for effective teaching and learning.
 2. Central computing facility with 100 nos. of computers for practicing the students for online examinations, training sessions etc.
 3. Well-developed laboratories to impart knowledge to students
 4. Central library having ... books and digital library with e- Journals.
 5. AC reading hall for 24 hours.
 6. Departmental seminar halls with P.A. system.
 7. Spacious tutorial rooms in each department.
 8. The entire campus is Wi-Fi enabled with 32 Mbps internet connection.
 9. Apart from central library, each department has its own library that contains projects, seminars, CDs,
 10. Provision of well-developed network of roads.

A) Infrastructures co-ordination Committee.

No.	Committee Members	Designation
01	Dr. H.N.Kudal	Chairman
02	Dr. K.B. Kale	Member
03	Prof. S.M.Magar	Member
04	Dr. J.C. Burse	Member
05	Prof .Mrs. U.R. Kawade	Member

4.1.2 Detail the infrastructure available for

a) Curricular and Co-Curricular activities –Classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical gardens, Animal House, Specialized facilities and equipments for teaching , learning and research etc.

- **Curricular and Co- curricular Activities:** All the departments are well equipped with necessary infrastructure satisfying all the requirements of AICTE, New Delhi, Government of Maharashtra, Savitribai Phule Pune University, Pune.
- **Class Rooms:** Spacious and well ventilated class rooms with provision of different teaching aids such as LCD, OHP etc. Total 41 nos. of class rooms are available in the Institute.
- **Technology enabled learning spaces:** Computer Language Lab, Digital Library and Laboratories in all departments of Institute connected with internet facility.
- **Seminar Halls:** Each Department is having separate seminar hall with PA system.
- **Drawing Halls:** Spacious Drawing Halls are available for students for conduction of drawing assignments. Various demonstrative types of models are provided to the students for better visualization and imagination of drawing.
- **Tutorial Rooms:** Each Department is having separate tutorial room for conduction of tutorials and assignments. Total 10 nos. of tutorial rooms are available in the Institute.
- **Laboratories:** Well equipped laboratories as per university curriculum and AICTE norms are available to impart knowledge to students. Total 72 laboratories are available in the Institute.

Specialized facilities and equipments for teaching ,learning and research :**Major Equipments for teaching and Learning :****1. Civil Engineering Department:**

Sr.No.	Name of instrument	Qty	Total cost Rs
1	AIMIL field & Laboratory balance Cap.50 Kg.,	02	27,560=00
2	AIMIL Dynamic cone penetration test apparatus with all necessary accessories	01	39,601=60
3	Swell Test Apparatus	01	51,750=00
4	Universal Automatic Compactor	01	32,500=00
5	Sampling Tube with two end caps i) 50mm x 450mm Long ii) 100mm x 450mm Long iii)150mm x 450mm Long	One set each	31,590=00
6	California Bearing Ratio test apparatus field type	01	39,375=00
7	Pendulum Impact testing machine.	01	26,752=54
8	FSA make FWT –40 Universal Testing machine complete with	01	1,42,216=50

	std. accessories		
9	FIE Torsion Testing Machine Model-TT10,10 Tones cap max		1,66,785=00
10	Beam mould made of cast Iran Size- 100x100x500mm	06	28800=00
11	Toshniwal Digital Ultrasonic Concrete tester.	01	52,841=00
12	Biggs Deform meter set.	01	27,560=00
13	AIMIL Hydraulic jack with hand operated pumping unit fitted with pressure gauge 250 kN capacity	02	34,680=00
14	Extension wire jack suitable for post tensioning wire upto 8mm dia with high pressure cowes pressure gauges.	01	66,169=00
15	Universal testing machine,100 t capacity	01	8,92000=00
16	Horizontal shake table for study of earthquake effect on models.	01	255375=00
17	Centrifuge Extractor (Motorized)	01	28,391=00
18	Jar test Apparatus	01	29,708=50
19	Table Top Electronic Balance- with digital display. Model-CA 323,Cap-320gm,Accuracy 0.001gm,Least count 1.0mg with battery backup& breeze shield		57,937=50
20	Netal Respirable Dust Sampler. Model-for ambient air monitoring consisting of- a)Respirable Dust sampling system b)Gaseous sampling arrangement	01	1,23,750=00
21	Blue Star AC 2.0 Ton Cap.	01	36,150=00
22	Computers P-IV	28	711200=00
23	Scadds/Building estimator 2005 professional 5 user Scadds / Nules RC2007 consisting of following packages- Scadds/3D analysis suit 2007.Scadds/RC-Design suite realse2007-5users	01	84,000=00
24	AutoCad Education suite 2010 for civil	10 user	400000=00
25	Build master, Road master, Rate analysis and steel master software	1set 10user	48000=00
26	L.C.D. Projector Sony make model VPL – E57 2000 ANSI SVGA 800x600	01	32000=00
27	OHP Liberty make	03	27000=00
28	Wind Tunnel	01	1,63,200=00
29	Tilting & fixed flume	01	56,500=00
30	Apparatus for verification of Bernoulli's Theorem(closed circuits type)	01	32,000=00
31	Heleshaw apparatus closed circuit type	01	33,000=00
32	One seconds theodolite	02	80000=00
33	Transit theodolite	06	60,000=00
34	Pentax make Total Station , Model PCS 325	01	4,27,000=00
35	Digital planimeter	01	27,000=00
36	Automatic level	05	66200=00
37	Electronics Digital Theodolite:	01	67,500=00
38	Geographic Positioning System	01	58000=00

3. Mechanical Engineering Department

Sr. No.	Name of Equipments	Quantity	Cost of the Equipments
01	Triplee Multicylinder petrol Engine Ambassdor with Hydralic Dynamometer complete set.	01	50,365=70
02	INDUS Smoke Meter Compelte With Sampling System, Printer, Rs 232 Interface, Dc. Operation Facility, Remote , Trolley. Sr. No. 01193	01	91,530=00
03	INDUS 2 Gas Analyzer Complete With Sampling Probe Built In Inflow Meter, Printer Rs 232 Interface With Computer Facility. Sr. No. P1310	01	91,530=00
04	Multi cylinder Diesel Engine Gen Set Test Rig.	01	59,596=00
05	Vapour Absorption cycle Test Rig.	01	85,000=00
06	1)Steam Turbine Test Rig-1.0kw output a)cap 1 kW to 2 kW output@400kg/hr steam 10 bar 1to2 kW output cap(3ohpcondesorpump) b)Turbine General detail-De Laval type turbine with two steam nozzles ,material blades& nozzle-stainless steel vertical split case design water cooled bearings c)Condenser- Shell &Tube type condenser with 3.Kw 0/5 hp monoblock pump set to circulate the cooling water pressure guage to measure the flow rate& thermometer to measure cooling water temp.The steam flow rate is determined by measuring the conden sate haw rate	01	3,93,750=00
07	1)Water Softner-model`AQUASOFT-005` with pump 2)Fuel Tank- 500Ltrs cap with required nozzles 0f (m.o.c)-m.s3) Feed Water Tank-1000Ltrs cap with required nozzles 9m.o.c) 4)Structure for both tanks (Mechanotype) 5)Supported Chimney having 250mm dia&10 mtr height. 6)Interconnecting piping&sundrise like valves,etc.	01	3,81,360=00
08	1)Non IBR Steam Boiler of cap 400kg/hr with working pressure of 15kgf/cm2 Model-`Steampack-400`(f & 30degree c) (With ECONOMISER)	01	2,04,750=00
09	Two Stage Air Compressor , TR-02, Test Ring. Sr. No.162 (7.5HP, EIGI make)	01	29,351=40
10	Mini Air Conditioning Tutor (One Ton Cap). Test Ring with all its accessories	01	39,273=00
11	1)` UNI INSTAS` Boiling Heat Transfer Unit	01	29,036=37
12	VIBERATION LABORATORY 1) VIB.LAB (Following 11 Experimental Set included) a) Pendulum experiments contains- 1] Simple Pendulum 2] Compound Pendulum. 3] Bi- Filer suspension b) Longitudinal Vibration experiment contains- 4] Spring mass, system.	01	28,280=00

	5] Equivalent spring mass system to study undamped free. 6] Equivalent spring mass system to study forced vibration. C] Torsional vibration Expt. Contains. 7] Torsional vibration for signal Rotor system.		
13	Portable ultrasonic flaw detector model 4400	01	89,804=00
14	Rockwell cum Brinell hardness tester model –AI -RABI	01	62,775=00
15	CNC lathe trainer H – E-125 CNC-PC	01	5,28,430=00
16	Jash Accord series Bridge type 3 D – CO-ORDINATE MEASURING MACHINE	01	8,13,780=00
17	Auto Collimater model ACT- 01 S Auto Collimater single axis with standard mirror ACC – 3 SPC	01	1,65,064=00
18	Supreme make floating carriage Micrometer	01	27000=00
19	Profile projector	01	28,000=00
20	Air compressor model No.2475 C-5	01	40,577=00
21	Floating earriage micrometer	02	1,05,400=00
22	Triplee Vertical Shaft Kaplan Turbine test rig complete set.	01	89,240=35
23	Dead weight vaccum gauge tester 0 -760 mm of Hg	01	52,000=00
24	Pelton Wheel Trubine Test RIG-TR-14.Sr.No. 234	01	42,402=00
25	Triplee Francis Turbine Test Rig complete Set.	01	47,775=00
26	Dead weight pressure gauge tester 0 -30 kgf/cm2	01	48,000=00
27	Fluid coupling & torque converter	01set.	30,000=00
28	Set of all types of Manometer	01set.	45,000=00
29	I- DEAS Master seres 8.0	01	2,08,620=00
30	Intellicad software	01	93,600=00
31	5 kVA/ 192V, Online UPS System With Batteries	01	1,30,830=00
32	HP DESIGN JET 500 PLUS COLOUR Plotter	01	1,39,000=00
33	Ansys software	05	3,99,000=00
34	Catia V5 R16 Software	05	4,27,500=00
35	ONLINE UPS	02	51,667=00
36	Lead acid tubular battery	16	52,200=00
37	1)Computer Zenith , 80386 2) Computer Zenith, 80286	10	8,47,530=00
38	A3/A4 MP 4100 Plotter	01	50,000=00
39	11” x 11” Digitizer	01	40,775=00
40	EX 1000 Dot Matrix Printers	02	52,600=00
42	Blue star AC 2 Ton Capacity	02	79,428=00

43	UPS on line using PWN Tech built -in voltage stabilizer spike supptessor & one filters 2 KVA	01	51,667=00
44	1) Computer Vintron P-1 166	01	34,000=00
45	Vintron make, PC-M II 300 MHz, MM	01	29,835=00
46	P.C. Vintron M II 300 MHz ,32-4.3, 1.44 colour , 105 mouse.	03	77,184=00
47	Computer P-III 500 MHz	06	1,90,590=00
48	1-Deas master series 8.0 consisting of :- a)Core master modeler b)Basic surface modeling set up. c)Assembly modeling set up	02	1,90,000=00
49	Ansys University Version(16000 Nodes) 5 Licensos pack.	01	40,000=00
50	Computer P-III 1 GHz with M.M.	01	28,000=00
51	Computer P-III 1 GHz & 1.13 GHz W/O MM.	01	26,650=00
52	HCL Computer, Intel P-4 2.6 GHz.	10	2,65,000=00
53	Intel Pentium IV HCL make 8.4GHz Intel 915 motherboard 17" TFT monitor optical mouse with pad 3.88 DD and Microphone	01	33,200=00
54	AUTO CAD 2007 commercial standalone FPP Sr No- 345,3303179)	01	40,000=00
55	LCD projector	01	32000=00
56	HP Desktop Dx 2480	80	19,60,000=0
57	Voltas split A.C 2TR	03	91,350=00
58	Engg graphics teaching software	04	39,580=00
59	CATIA V5 R10	30	5,25,000=00
			99,99,345=0

3. Department of Electronics and Telecommunications

Sr. No	Name of the Equipment	Qty	Cost in Rupees
1.	Spectrum analyzer 1. Spectrum analyzer & Tracking Generator 9 KHz To 2.7 GHz : 01	03	3,20,008=00
	2. Spectrum Analyzer Model-NS-30A : 02		5,00,7000=00
2.	CDMA Trainer	03	1,00,8000=00
3.	Antenna Trainer	01	92,500=00
4.	Optical Time Domain Reflectometer (OTDR)	01	3,35,000=00
5.	Microwave Trainer Compact microwave training model Model SX900 : 01	02	2,10,000=00
	Compact microwave training model Model SX9004 : 01		
6	DSO (25MHz & 100Mhz)	08	2,91,536=00
7.	Xilinx 13.5 (25 User)	01	75,000=00
8.	Microwind 3.5 (10 User)	01	3,64,000=00
9.	Multisim V.11 (10 User)	01	2,80,000=00
Research Software			
1.	Matlab 11b (5 User)	01	5,34,462=00

4. Department of Electrical Engineering

Sr. No.	Name of Equipments	Qty.	Cost of the equipments
1.	1) Dc power rectifier 3-ph. 440v AC Sec. 250v,80A DC	1	25,500=00
	2) AC Generator,3 ph 415v 1500rpm 15kv	1	32,318=00
	3) Diesel generating set 3 ph 6.25kva 5kw 440v	1	35,962=00
	4) Teknogear make, DC compound motor alternator set 5hp 220v 1500rpm 3ph 3kva 440v	2	63,700=00
	5) Teknogear make,Auto synchronous motor 3.7kw 3ph coupled with 220v 1500rpm dc compound generator	2	75,000=00
	6) Teknogear make dc shunt motor identical	1	33,500=00
	7) 3ph ac series motor415v 3hp 1500- 3000rpm	1	29,150=00
	8) AC Linear induction motor 0.5hp 415v 1500rpm	1	25,860=00
	9) Induction motor3ph 5hp 415v 4pole 1440rpm	1	31,650=00
	10) Variable frequency drive with motor0.5hp 3ph 415v pole&2pole	2	79,800=00
	11) AE make rectifier unit 3ph 360-440v 50hz ac input. Output 230-250v dc 0- 100 A	1	3,21,525=00
	12) Supply erection testing & commissioning of control panel	1	26,000=00
2	1) A.C High voltage transformer 60kva	1	52,608=00
	2) 0-100 kv oil testing kit	1	40,176=00
3.	1) Auto range digital earth resistance tester	1	48,000=00
	2) Microprocessor based cable fault localizer(0-10mag)	1	47,250=00

Research labs and various teaching aids are available in each department.

- **Research labs:**

1. Advanced equipments are available in each laboratory for research work.

2. Different models and charts are available in various laboratories for effective teaching.

- **Central Library:** Digital laboratory comprising latest configuration computers. Profound Central Library with state of the art furniture and facilities like separate A.C. reading room available for 24 hours.

- **Central Computing Facility:** Central Computing Facility with 100 computers and 32 Mbps internet facility.

- **Computer Laboratories:** Total 24 computer labs with total 756 computers in the institution are provided with Air conditioned and UPS backup.
- **ERP Software:** Institute is equipped with fully featured ERP software that facilitates examination system, online attendance management with SMS module.
- **Amenities available**
 - The entire campus is Wi-Fi enabled with 32 Mbps internet connection.
 - Intercom Facility
 - Spacious and ventilated Staff Cabins with facility of desktop having internet.
 - Spacious Workshops to meet the requirement as per AICTE
 - A.C. Night study room.
 - Well maintained Play Grounds for Cricket, Basketball, and Volleyball etc.
 - Banking facility for faculty and students (Pravara sahakari bank)
 - Canteen facility (2 Nos.)
 - 82.5 KVA DG Genset for the uninterrupted power supply
 - Well-developed network of transport and communication facilities.
 - Separate hostels for boys and girls with Wi-Fi connectivity
 - Well-equipped Hospital facility runs by same Foundation

1. Infrastructural Facilities –Instructional Areas:

Sr. No.	Details of the Facilities	Required Nos. as per AICTE Norms	Required Area per Facility as per AICTE Norms (Sq. m)	Available Number	Total Required Area per Facility as per AICTE Norms (Sq. m)	Total available Carpet Area (Sq. m)
01	Class Room	41	66	37 UG + 04 PG	2706	2946
02	Tutorial Room	10	33	10	330	352
03	Laboratories	72	66	71	----	5680
04	Seminar Hall	06	132	06	924	909
05	Drawing Hall	01	132	01	132	172
06	Central Computing Facility	01	150	01	150`	172
07	Library	01	650	01	650	697
08	Workshops	01	200	01	200	1011.97
				Total area		11939.97

Infrastructural Facilities –Administrative Area

Sr. No.	Details of the Facilities	Nos.	Required Area as per AICTE Norms per facility (Sq .m)	Available Carpet Area (Sq . m)
01	Principal Room	01	30	30
	Vice Principal Room	01	--	22.76
02	Registrar Room	01	30	22.77
03	Board Room and Reception	01	20	128.55
04	Administrative Office	01	150	140
05	H.O.D Cabins	09	10*9 = 90	261
06	Departmental Meeting Room	06	-----	183
07	Staff Cabins		-----	762
08	Examination Control Room	01	30	33
09	Central Store	01	30	161
10	Placement Office	01	30	22
11	Pantry	01	10	12.77
12	Security Cabin	01	10	10
13	Maintenance Room	02	10	121
14	Housekeeping Room	01	10	10
15	Waiting Hall & Reception	01		144
	Total area			2000

3. Infrastructural Amenities:

Sr. No.	Details of the Facilities	Number	Required area as per AICTE Norms (sq.m.)	Available Carpet Area (sq.m.)
01	Toilet Blocks – Ladies and Gents	40	350	580.62
02	Girls Common Rooms	02	100	80
03	Canteen	02	150	626.14
04	Stationary Store and Reprographic facilities	01	10	10
05	Gymnasium/ Auditorium	01	200	1248.14
06	Boys Hostel	02	---	4878.15
07	Girls Hostel	01	---	5927.61

08	Boys Common Room	01	100	98
09	First Aid Room	01	10	34
10	Guest Room	01	30	57.37
11	Motor Cycle Parking	01	---	416
12	Sports Club	01	---	120
13	Co-operative Stores	01	---	143.46
14	Bank	01	---	70
15	Open Air Theatre	01	---	800
				15279.15

iv) Circulation Area = 7713.00 sq.m.

v) Total Infrastructure Facilities:

Sr. No.	Details of the facilities	Required area as per AICTE Norms (sq.m.)	Available Carpet Area (sq.m.)
01	Instructional Area	9580	11939.97
02	Administrative Area	1680	2000.00
03	Amenities Area	950	15279.15
04	Circulation Area	3052	7713.00
05	Residential area (Staff Quarters)	---	1728.42
	Total Area		38660.54

vi) Transport Connectivity:

1. Ahmednagar Municipal Transport (AMT) is providing bus facilities from Ahmednagar City. (12 km from College Campus) with frequency of three buses every hour. AMT facility is from 7:00 am to 9:30 pm every day.
2. College campus is situated on State Highway 10 so it is well connected to nearby locations by MSRTC.
3. In addition to this, Railway connectivity is also available through Ahmednagar Railway Station (16 km from College campus) and Vilad Station (3 km from College Campus)
4. Separate transport facility for staff is provided from college.

vii) Vehicle Parking: (Area: 416 sq.m.)

1. Separate two wheeler and four wheeler parking with covered shade is available for the staffs.
2. Ample space for two wheeler parking is available to accommodate the vehicles of students.

viii) Internet Café:

1. Internet facility in Central Computer Center is available for students and staff (172 sq.m.)
2. Internet facility also provided in Departmental Computer Laboratories of all the departments for students and staff. (1450 sq.m.).
3. In addition to this, separate internet café is available in the campus near girl's hostel.

ix) Wi-Fi Facilities: The entire campus is Wi-Fi enabled with 32 Mbps internet Connection

x) Canteen:(Area: 626.14 sq.m.)

1. Two canteens are available to serve hygienic food to the students and staff.

xi) Common Room (Area: 178 sq.m.)

1. Boys: One common room near E&TC Department
2. Girls: Two common rooms are available in College Building.

xiii) Water:

1. Safe water supply from Ahmednagar Municipal Corporation to fulfill the requirement of College campus.
2. Water coolers with purifiers are located in all the departments.

xiv) Roads

1. Approach Road: College campus is well connected to SH10 by Bituminous Road.
2. Internal Roads : All infrastructural buildings are also connected by bituminous road

xv) Stationary & Reprographic Facilities :

1. stationary is provided to students from central store
2. Four photocopy machines are available in the central library.
3. In addition to above, one photocopy machine is available near to canteen in the campus.

b) Extra-Curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, cultural activities, public speaking, communication skills development, yoga, health and hygiene etc.

Sports:

Separate sports area available for indoor and outdoor games. Playground is available for outdoor games like cricket, Volley ball, and Foot ball, kho-kho, kabbadi, athletics etc.

Gymnasium :

The Gymnasium is having capacity of more than 500 seat. Gymnasium is used for Indoor games like badminton, table tennis, carom, chess etc. Qualified and approved physical director is appointed by the institute for coaching the students in morning and evening session.

Cultural Activities : Open amphy theatre

Annual social gathering is organized every year by the Institute to provide platform to the students for showing their performances in open amphy theatre.

Health and Hygiene

- 1 Fully functional hospital run by same management is available with ICU Facility
- 2 Twenty four hours emergency medical service is available.
- 3 Clean and spacious mess in each hostel
- 4 Hygiene is maintained in canteens. Vigilance committee is constituted at college level to check the food quality and it is maintaining hygienic condition of Food in Mess and Canteen.
- 5 Separate sick room is provided in each hostel.
- 6 As per unversity instructions medical check up of newly admitted student is arranged.

Public Speaking : Seminar Hall is available to organize the public speeches, training activities etc

Communication Skill Development

Separate language lab is available to give additional knowledge to students regarding communication skill, soft skill etc. Also, Institute provides various coachings to staff and students for effective communication.

Yoga

- 1 Yoga classes for the students are conducted by experts invited by the Institute in gymkhana.
- 2 Different programs are organized by the Institute for stress relaxation of staffs & students in gymkhana

Vii. N.S.S: Activity:**Separate cell is available in Institute for N.S.S. Activity**

Institute is organizing N.S.S. camp with third and final year students at different places to achieve following objectives

1. Understand the community in which they work.
2. Understand themselves in relation to their community.

3. Identify the needs and problems of the community and involve them in problem solving process.
4. Develop among them a sense of social and civic responsibility.
5. Utilize their knowledge in finding practical solution to individual and community problems.
6. Develop competence required for group living and sharing of responsibilities.
7. Gain skills in mobilizing community participation.
8. Acquire leadership qualities and democratic attitude.
9. Develop capacity to meet emergencies and natural disasters.
10. Practice national integration and social harmony.

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 Plan is developed considering investment levels required to sustain particular growth targets. Institutes spent amount on facilities considering following developments
- Well equipped laboratories as per required norms of AICTE.
- Electricity provision scores favorably in quality.
- Water and sanitary provision is of high quality.
- Wi Fi Facility is widely accessible
- Transportation facility is also up to the mark.
- Spacious and covered parking place facility.

Following tables indicate amount spent on infrastructure development

Name of Assets	Cost			
	2011-12	2012-13	2013-14	2014-15
Immovable properties				
Pipe & pipeline		8300.00		0.00
Administrative Building				26889734.00
Misc Work Building				2605385.00
Total Rs.		8300.00		29495119.00
Furniture & dead stock	1820888.00	225664.00	878263	287592.00
Electrical installation	267188.00	0	0	165656.00
Solar energy system	0.00	0.00	0	0.00
Electric motor	0.00	0.00	0	0.00

Xerox Machine	0.00	0.00	0.00	7398.00
Electrification	0.00	1340238.00	1047003	199992.00
Vehicle parking shed	0.00	297143.00	0	0.00
Total in Rs.	2088076	1863045	1925266	660638 .00

Fixed Asset Schedule

Name of Assets	Cost			
	2011-12	2012-13	2013-14	2014-15
Canteen building	---	----	----	500000.00
Xerox Machine Grant	---	----	----	100000.00
Total in Rs.				600000.00

Fixed Assets Schedule

Name of Assets	Cost			
	2011-12	2012-13	2013-14	2014-15
Vehicle				
Nissan -MH 16 AV 8998	-----	0.00	1030231.00	0.00
Xylo MH 16 AH 4880	-----	0.00	0.00	0.00
Innova MH-16-AB-8998	-----	1357266.00	0.00	0.00
Total in Rs.		1357266.00	1030231.00	0.00

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

1. Ramps are provided at different places.
2. Separate toilet facility is provided by the Institute for physical disabled students.
3. Care is taken by all staff members by providing proper space in laboratory and necessary support is given during curricular, extra-curricular.
4. At the time of university examination extra time is allotted to the Physically disabled students.
5. In library, authority is given to other authorized students to issue the books.

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

- 1 **Hostel Facility:**
- 2 **Recreational facilities, gymnasium, yoga center, etc.:**
- 3 **Computer facility including access to internet in hostel**
- 4 **Facilities for Medical Emergencies**
- 5 **Library facility in the hostels**
- 6 **Internet and Wi-Fi facility**

7 Recreational facility – common room with audio visual equipments**8 Available residential facility for the staff and occupancy, constant supply of drinking water****9 security****1. Hostel Facility:**

There are total three hostels in campus.

- Hostel A is senior boys hostel with accommodation capacity of 240 students
- Hostel B is exclusively for first year Engineering students with accommodation capacity of 216 students.
- Hostel Kaveri is for girl students having accommodation capacity of 440 girls.
- All hostels are having facilities like Gymnasium , Indoor & outdoor game, Wi-Fi , Medical Officer& Dispensary ,Mess & T.V., 24 X7 Security, CCTV , Entry attendance, water purifier, water cooler, news paper, table & chair , 24X7 Electricity through expressfeeder, house-keeping , Fire Fighting, Intercom, Reading room facility, Guest house, reception.

The detailed information and facilities provided are as follows

Sr. No	Details of the Hostel Facility	Area (Sq. m.)	Capacity
1	Boys Hostel A	2504.24	240
2	Boys Hostel B	2656.00	216
3	Kaveri Girls Hostel	5927.61	440

2. Recreational facilities, gymnasium, yoga center, etc.:

- Recreational Facility- common room with audio visual Equipments. Television sets are available for students in each hostel.
- Gymkhana for indoor games such as table tennis, Badminton, Chess etc
- Gymkhana is well equipped with Gymnasium Equipments.
- Yoga Center with qualified yoga teacher is available in Gymkhana
- The institute has Wi-Fi connectivity so that students and staff in the campus can access the internet at any time.

3. Computer facility including access to internet in hostel

All hostels and staff quarters is Wi-Fi enabled with 32 Mbps internet Connection. Students & staffs can access internet using this facility on laptops and desktops with individual login ID and password.

4. Facilities for Medical Emergencies

- Well-equipped Hospital facility runs by same Foundation at distance of half kilometer, With total 750 bed capacity and ICU having 120 beds

C.T. Scan, Pathology, Cardiology, Neurology, Casualty, 24 Hours emergency service Ambulance facility is available on phone call at free of cost for students and staff.

5. Library facility in the hostels

- Reading rooms in central library are open for student for 24 hrs and it is in the vicinity of Boys Hostel.
- In Girl's Hostel separate reading room is available.

6. Internet and Wi-Fi facility

- The entire campus is Wi-Fi enabled with 32 Mbps internet Connection.
- The institute has 24X7 Wi-Fi connectivity for students and staff which the hostel students can access any time.

7. Residential Facility for staff and occupancy:

Staff quarters are available for the staff. The details of available residential facility which is given below.

Sr.No.	Particulars	Room No.	Area (Sq.m.)
01	Principal Quarter	A Type	161.66
02	Vice Principal	B Type	114.67
03	Professor	C Type 4x2	401.63
04	Guest House	Staff Quarter C 2/1	57.37
04	Asstt.Prof./ Lecturer equivalent	D Type 8x2	584.60
06	Class III staff	E Type E -1,E-2, E-3, E-4.	*627.52
07	Class IV staff		
		Total	1977.45

8. Constant Supply of Safe Drinking Water:

- Ahmednagar Municipal Corporation supplies Safe drinking water to fulfill the need of drinking water in College campus.
- Water coolers with purifiers are located in all the departments and Hostels and in college campus.
- Residential staff quarters are provided with Safe drinking water supply.

9. Security :

- Security cabins are available at different locations in College Campus.
- The institute has prompt security service working 24 hrs to make campus fully secured.
- Security supervisors patrol college campus at day and night time.
- Security guards are posted at various locations in the campus.
- Students without identity cards are not allowed to enter the campus; also, students staying on campus beyond regular college hours have to obtain special permission from the concerned teacher authority.
- Entry register is maintained for vehicles which are entering and leaving the campus.

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

Well-equipped Hospital run by same management with ICU facility is available in the institute campus.

Free and compulsory health check up for newly admitted students.

Medical facility is available with concessional rates to the students and staff.

In case of emergencies, ambulance is also available with the hospital

First aid box are available in each hostel and in each department.

Awareness programs on women health are organized by Women Grievance Cell.

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, Counseling and career Guidance, Placement Unit, Health Centre, Canteen, recreational Spaces for staff and students, safe drinking water facility, auditorium, etc.

Following units are constituted by the institute and separate space is provided for smooth working of these committees.

- Academic Monitoring Committee:- old Administrative Buliding**
- Grievance Redressal Committee:- old Administrative Buliding**
- Anti ragging Committee : old Administrative Buliding**
- _Women’s Grievance Cell:- old Administrative Buliding**
- Counseling Cell:- New Administrative Buliding**
- Career Guidance Cell:- New Administrative Buliding**
- Placement Cell:- New Administrative Buliding**
- Welfare Cell:- New Administrative Buliding**
- EDC : old Administrative Buliding**

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 implanted by the committee to render the library, student / user friendly ?

The central library has an advisory Committee comprises Chairman, Secretary and one faculty member from each department, the duties of which includes – planning and executing the requisite procedure for the functioning of the library. It includes the process of identifying, planning, and procurement of the books, journals, e-resources etc. and also monitors the allocated funds to library.

4.2.2 Provide details of the following:

Total area of the library = 586sq.m

Total seating capacity = 200

Working hours:

	9.00a.m. to 5.00p.m. & Reading Hall 9.00 a.m. to 12.00 midnight
On holidays	Reading Hall 9.00 a.m. to 12.00 midnight
Before examination days	9.00a.m. to 5.00p.m. & Reading Hall 24 hours
During examination	9.00a.m. to 5.00p.m. & Reading Hall 24 hours
During vacation	9.00a.m. to 5.00p.m.

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 central library take requirement of books, journals and other reading materials in the starting of every academic year and augments the facilities as required. The amount spent on augmenting various holdings in last four years are as follows –

LIBRARY HOLDINGS

Library Holdings	2011-12		2012-13		2013-14		2014-15	
	Number	Total Cost Rs.						
Text Books	1108	5,50,640.00	650	3,60,000.00	1207	4,80,700.00	960	5,60,108.00
Ref. Books	630	3,08,009.00	211	2,16,000.00	590	2,02,015.00	339	3,02,200.00
Journals/ Periodicals	62	1,59,850.00	64	1,65,250.00	72	1,78,530.00	75	1,81,667.00
E-resources	06	12,15,650.00	06	13,90,175.00	04	14,59,205.00	05	18,18,059.00
CDs/DVDs of books	115	Along with books	63	Along with books	103	Along with books	78	Along with books

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

1. OPAC	Yes
2. Electronic Resource Management package for e-journals	Yes
3. Library website	In process
4. In-house/remote access to e-publications	In process
5. Library automation	Yes
6. Total number of computers for public access	12
7. Total number of printer for public access	02
8. Internet band width/speed2mbps, 10mbps, 1gb	32Mbps
9. Institutional Repository	In process
10. Content management systems for e-learning	--
11. Participation in Resource sharing networks/consortia	DELNET

4.2.5 Provide details on the following items:

1. Average number of walk-ins	250-300/Per Day
2. Average number of books issued/returned	190-200 Per Day
3. Ratio of library books to students enrolled	18:1
4. Average number of books added during last three years	-1700
5. Average number of login to OPAC	15-20/Per Day
6. Average number of login to e-resources	25-30/Per Day
7. Average number of login to e-resources downloaded/printed	- 20-25 /per day
8. Number of information literacy trainings organized	- 05 in digital library
9. Details of “ Weeding out” of books and other materials	- Nil

4.2.6 Give details of the specialized services provided by the library

1. Manuscript	No
2. Reference	Yes
3. Reprography	Yes
4. ILL (Inter Library Loan)	No
5. Information deployment and notification	Yes
6. Download	Yes
7. Printing	Yes
8. Reading list / Bibliography compilation	Yes
9. In-house /remote access to e-resources	Yes

10. User Orientation and awareness	Yes
11. Assistance in searching Databases	Yes
12. INFLIBNET/IUC/INDEST facilities	DELNET

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

- Assistance in locating the book on shelf
- Assistance in Browsing or searching the e-Resources
- Circulating new catalogues to faculty for their information
- Providing list of New arrived books and journals
- Providing newspaper clipping related to the interest of students and Faculty
- Providing SDI Services to the users
- Providing digital library access which contains final project report and NPTEL
- Web & video courses
- Providing access to list of reference books, reading hall copy, CD ROM, General books,
- Book Bank books, final year project titles and books, related to aptitude test and competitive exam.
- Provide information regarding Seminar, paper presentation, conference alert and new arrival in publication.
- Provided access to DELNET online database.

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

Library staff helps visually/physically challenged persons for the book issue under Book Bank scheme and other procedures of library.

4.2.9 Dose the library get the feedback from its user? If yes, how is it analysed and used for improving the library services, (What strategies are developed by the library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)

A feedback form is prepared and distributed to the students at random. The Feedback form is analyzed depending on the marks given to each question on a scale to 1-10. Their suggestions are taken into consideration and appropriate action is taken for the same at our level, suggestions that require involvement of the higher authority are put up before them for their approval or suggestion as per requirement.

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)
- Computer student Ratio
- Stand alone facility
- LAN Facility
- Wi-Fi Facility
- Licensed Software
- Number of nodes/ Computers with Internet Facility
- Any Other
- **Number of computers with configuration (Provide actual number with exact configuration of each available system):**

Total 24 computer labs are available in Institute along with one Central Computer Lab having 100 computers.

System Configuration:

Sr. No	Year	Configuration	Generation	Total
1	2004	1.2GHz,40HDD, RAM1 Gb,15"colour Monitor (Mercury)	P-IV	03
2	2004	2.6GHz,40GB HDD, RAM1 GB with 15"color monitor	PIV	30
3	2005	2.93GHz. 40GB HDD, RAM 1 GB with 15"color monitor	P-IV	03
4	2006	3.6GHz.,RAM 1GB , HDD 80GB,with TFT	P-IV	05
5	2006	3.6GHz.,RAM1GB , HDD 80GB,	P-IV	21
6	2007	HCL power lite Laptop	Dual core	01
7	2008	Dual core 3.00GHz,80GB HDD,DDR RAM 2GB with TFT monitor	Dual core	46
8	2009	Dual core,HDD-160GB,DDR-II 2GB RAM, with	Dual core	80
9	2009	HP Laptop	Core2Duo	01
10	2009	Laptop Core2Duo,1.8GHz 2GB RAM,160GB	Core2Duo	01
11	2011	Core2Duo, 2.93GHz,2GB RAM,320GB HDD	Dual core	02
12	2011	Core2Duo,Pro 3090 ,2.93GHz , RAM 2 GB, 320GB HDD, with TFT	Core2Duo	50
13	2011	Core2Duo,2.93GHz, 2GB RAM,320GB HDD	Core2Duo	80
14	2011	Corei3,4GB RAM,HDD500 GB, with LED 18.5"	I-3	185
15	2013	Corei3,4GB RAM,HDD320 GB, with LED 18.5"	I-3	35
16	2014	Corei3,4GB RAM,HDD500 GB, with LED 18.5"	I-3	210
		Total No. of Computer Systems		756

Server Configuration:

Sr. No.	Year	Configuration	Generation	Total
1	2011	HP Proliant 350G6 Server ,xenon processor,160HDD,4GB RAM, with 17" TFT	xenon	03

➤ **Computer student Ratio :**

Sr.No.	AICTE Norms	Computers Required
01	UG 1:4	2160/4 =540
02	PG 1:2	96/2=24

1. As per AICTE, Norms Computer Student Ratio = 1:4 for UG
2. As per AICTE Norms Computer Student Ratio = 1:2 for PG
3. Sanctioned Intake (UG) 2160, Computer Required 2160/4 =540
4. Sanctioned Intake (PG) 96, Computer Required 96/2 =48

➤ **Stand alone facility :**

Sr. No.	Name of Department	LCD Projectors	Scanners	Printers	OHP
01	Civil Engineering	03	03	07	02
02	Mechanical Engineering	04	01	09+ 01	02
03	Electronics and Telecommunication	02	03	11	
04	Electrical Engineering	02	02	08	
05	Instrumentation and Control Engineering	02	01	08	
06	Information Technology	03	02	10	
07	Applied Science			02	
08	General Office	-----	02	12	
09	Others(Library, Central Computer LAB, Workshop)			09	
	Total	16	14	77	04

➤ **LAN Facility :**

The central computing center is equipped with Dell Optilex 755n, Dell Optilex 360, Lenovo Think Desktop and HP Compaq Dx 7400 Intel ® Core ™2 Duo Processor E4500 machines (C2D 2.9/2GB/320/DRW) of latest configuration. All computers in the centre connected through a 10/100/1000 Gigabyte LAN. It has central server room with CISCO-800 series Router, sharer and modem for central internet facility.

The internet facility of 32 Mbps through leased line have provided to the Central Internet facility including the computer labs of entire department, H.O.D.s, Library, Hostel, TPO, Office and administrative blocks, etc. Where

each computer is attached with printers and all machines are warranted uninterrupted operations because of individual protection by branded online UPS system. The college staff and faculty is always alert to provide timely help to each students. The college is equipped with 32 Mbps 1:1 internet leased line provided by Tata Teli Services. The 24 hours uninterrupted internet connection is distributed across the college through LAN and Wi-Fi networks.

➤ **Wi-Fi Facility :**

- The college is equipped with 32 Mbps 1:1 internet leased line provided by Tata Tele Services
- The 24 hours uninterrupted internet connection is distributed across the college through LAN and Wi-Fi.

➤ **Licensed Software**

Sr. No.	Name of Department	Qty. (User)	Cost
1	Department of E & TC		
	1. Microwind	10 user	647500.00
	2. Keils	25 User	225225.00
	3. Multisim	10 User	294000.00
	4. Matlab	5 user	1034827.00
	5. Xilinx	25 User	43738.00
	7. Image Craft	5 user	22500.00
		Total	2267790.00
2	Civil Department		
	1. SCADDS	5	84000.00
	2. Building Estimator	Multiuser	48000.00
	3. Autocad	10	400000.00
	4. Autocad	10	246317.00
	5. Stadpro	5	569284.00
	6. Etab	10	318750.00
	7. Rcube	3	30000.00
		Total	1696351.00
3	Instrumentation Department		
	1. Matlab	5	443153.00
		Total	443153.00
4	IT Department		
	1. Windows Server STD 2003	5	9375.00
	2. Visual Studio .Net 2003	20	16500.00
	2. Windows XP Pro.	5	16500.00
	3. Oracle 10G STD	5	58000.00
	4. Turbo C ++ AE	100	13800.00
	5. Micromedia Flash 2004	1	4500.00
	6. Adob Photoshop CS AE	1	14250.00
	7. Rational Suit Ent.	20	300000.00
	8. Learn Soft Language Lab	1	89000.00
	9. Matlab	1	432285.00
	10. IBMRational Suit	30	175000.00
	11. Keils	25	214500.00
	12. SW Win Pro 7 Single upgradOlplnl	150	585000.00
	13. SW Oracle STD One EDT Ver 11G	20	150000.00
	14. SW Codgear Turbo C+	100	230000.00

	15. ISE Design Suite Sys. Edt.	1	490000.00
	16. SW MS Office 2007 Prof.	10	42000.00
	17. SW Win Server 2008 STD	1	6700.00
	18. SW Win Server CAL2008	20	8500.00
	19. SW Visual Studio Pro 2008	20	110000.00
	20. Microsoft Windows 2008 Server	20	15,200.00
	21. Microsoft Office 2007 Professional	10	42,000.00
	22. Xilinx – ISE Design Suite	1	4,90,000.00
	23. SuSe Linux 10.0 Enterprise Edition	5	7,000.00
	24. Antivirus Kit Norton 2005	25	1,550.00
	25. Antivirus Quick Heal	300	1,33,500.00
		Total	3031660.00
5	Mechanical Department		
	1. Matlab	15	548205.00
	2. Autocad	10	257000.00
	3. Autocad V5 R20	30	525000.00
	4. Intellicad	Unlimited	93600.00
	5. Catia v5R16	30	551250.00
	6. Ansys Introductory Software	5	399000.00
	7. Turbo C++	1	2300.00
	8. Autocad 2007	2	49450.00
	9. Ansys (University Version)	5	62540.00
	10. Ideas Master Series 8.0	2	252540.00
	11. Fluid Flow Software	5	200000.00
	12. Ansys Academic Teaching	25	340000.00
	13. Master cam (Educational)	10	572250.00
	14. Cognifront Teaching aids software		35000.00
		Total	3888135.00
6	Electrical Department		
	1. ETAP 5.5	5	256700.00
	2. Matlab 7.4	10	1226089.00
	3. Auto Grid Pro	1	650000.00
	4. Mi Power 6.1	5	204497.00
	5. Dig Silent Power Factory 14.1	25	125000.00
	6. C++	Multi	
		Total	2462286.00
7	Others		
	1. Microsoft Open License (Campus Agreement)	300	1354304.00
		240	1935880.00
	2. Library Automation Software	1	35000.00
	3. Vridhhi office Software	1	92400.00
		Total	3417584.00
	Grand Total	17206959.00	

➤ **Number of nodes/ Computers with Internet Facility**

All the systems are connected to internet facility through LAN or Wi-Fi.

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

On Campus Facility :

1. Total 24 numbers computer labs are available in the Institute.
2. Total 756 numbers computer systems
3. Internet facility in central computer center is available for students and staff (172 sq.m.)
4. Internet facility also provided in departmental computer laboratories of all departments for students and staff (1450 sq.m.)
5. The entire campus is Wi-Fi enabled with 32Mbps internet connection. This enables the students and staff to stay connected with internet facility in hostel and staff quarters.
6. Students and staff can browse e-Journals in Digital Library.
7. All computers are connected through LAN.

4.3.3 What are the Institutional plans and strategies for deploying and upgrading the IT Infrastructure and associate facilities?

Institution has planned advanced Information Technology considering following aspects

- Due to increase in intake capacity, institute is committed to provide IT infrastructural facility and it is implemented as per AICTE norms.
- Institute plans for purchase of advanced Softwares and also upgradation of existing system.

Sr. No	Year	Total Number of Computer System
1	2010-2011	191
2	2011-2012	511
3	2012-2013	546
4	2013-2014	756
5	2014-2015	756

4.3.4 Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution

1. As per AICTE and University requirement Institute has allotted the annual budget to every department procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution.
2. Following figures indicate the annual budget allotted by the Institute.

Year	Budgeted Amount (in Rupees)	Actual Expenses Amount (in Rupees)
2011-12	10,48,000 .00	7,11,000.00
2012-13	43,50,000.00	36,61,000.00
2013-14	83,00,000.00	72,42,000.00
2014-15	16,00,000.00	12,43,000.00

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?

- Whole campus is having Wi-Fi connectivity.
- Each faculty is having desktop with internet connection.
- Faculty and Students are using different advanced softwares for their projects and research work.
- Total 63 different softwares are available in the Institute.
- Central library is giving facility to access online journals to the staff and students.
- Central library is also having the online access to central database of DELNET through <http://delnet.nic.in>.

Online Journal Access Links:

Sr. No.	Name of Journal	Access links	Use
1	IEEE	http://ieeexplore.ieee.org	Electrical Engineering and E & TC
2	ASME	http://asmedigitalcollection.asme.org	Mechanical Engineering
3	ASCE	http://ascelibrary.org/journals/all_journal_titles	Civil Engineering
4	Springer	http://link.springer.com	Electrical Engineering and E & TC
5	Science Direct	http://www.sciencedirect.com	Mechanical Engineering , Electrical Engineering ,
6	Elsevier	www.sciencedirect.com	Computer Science, Electronics, Electrical , Mechanical, Civil

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.

Institute organizes various training programmers to expert the faculty to give Information technology base knowledge to the students.

Following facilities are available in the Institute.

- Total 24 computer labs are available in the Institute.
- Central Computing facility with 100 computers is provided by the Institute.
- Faculty uses online resources to deliver the curriculum.

- All classrooms and computer labs have provisions of LCD and OHP.
- All Departments are facilitate with advanced softwares and students can assess these softwares easily.
- Whole campus is having fully enabled Wi-Fi access.
- Digital Library facility is available to the students .

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?

Yes, Institute is availed about National Knowledge Network Connectivity.

- Institute organizes workshop on Foreign Collaboration to share the views , technical and practical knowledge at different Institutes through International Collaboration.
- IIT visual labs are accessible from Digital Library.
- IIT video lecture series available in Digital Library.
- Webinars on different topics are organized in Central Seminar Hall, Central Computer Lab etc.
- Faculty and students are using internet, e-Mails, messaging gateways, SMS gateways etc.

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) ?

- Management is always providing financial support considering the maintenance demands required in College campus. Separate budget is allotted to each department. Each department is doing maintenance of equipments, furnitures, computers in their respective department through the allotted budget to them.

Maintenance Required	Amount Utilized for Repair and Maintenance (in Rupees)			
	2011-12	2012-13	2013-14	2014-15
Building			68,22,709.00	2,20,896.00
Equipment	15,000.0	9,945.0	27,393.00	0
Electrical, Generator etc.	77,677.0	42,776.0	2,77,077.0	2,87,505.0
Gardening	40,401.0	1,60,368.0	2,764.0	0
Total	1,33,078.0	2,13,089.0	71,29,943.0	5,08,401.0

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

- Separate cells as Civil Maintenance Department, Electrical Maintenance Department etc. is constituted to carry the maintenance in college campus.
- Scheduled Maintenance of computers are carried by system analyst appointed by the Institute who has three subordinate members assisting him.
- Each Head of department collects the information from lab incharges regarding maintenance in each laboratory of respective department. Separate maintenance register is maintained in each

laboratory and routine checkup is carried by lab assistant to check working condition of equipments. Head of the Department forwards this information to the Principal for approval of budget required for repair and maintenance.

- Maintenance in gardening is routinely carried by gardening staff.

Civil Maintenance department

Sr. No.	Name of Staff	Designation
01	Shinde V.N	H.O.D
02	Yadav P.S	Maintenance Supervisor
03	Kadam C.H	Supervisor
04	Shaikh Harun	Peon
05	Daily workers	45 Numbers

Type of Work done By Civil Maintenance Department

1. All maintenance in College Campus is carried by Civil Maintenance Department.
2. Cleanness of all campus is strictly checked by the supervisor and department workers are cleaning the campus daily.
3. Civil maintenance is also responsible for cleanliness in gardens.
4. Maintenance work of hostel and college campus is carried by Separate workers.

Electrical Maintenance Department details

Sr. No.	Name of Staff	Designation
01	Shri.Gorde S.R.	H.O.D
02	Shri.Pawar M.B	Supervisor
03	Shri.Pathare V.B	Wireman
04	Shri.Bhange K.B	Wireman
05	Shri.Aher P.S	Wireman
06	Shri.Dhondage P.R	Wireman
07	Shri.Chandne A.S	Wireman
08	Shri.Vaidya S.R	Wireman

Type of Work done by Electrical Maintenance Department

- Electrical Maintenance work of hostel and college campus is carried by Electrical Maintenance Department.
- Maintenance work of Electric motor, Generators etc. are carried by the department
- All electrical fittings work and maintenance is carried by the department.

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

- Lab incharges identify the equipments which need periodical calibration for safe and proper functioning and contacts respective company to carry calibration.
- Calibration is periodically carried out for the instruments from the external agencies as per due dates.

Sr. No	Name of the Instrument	Company
01	Digital Temperature Indicator	Shriji electronics
02	Temperature Gauge	Avishko instrument Ahmednagar
03	Pressure Gauge	Avishko instrument Ahmednagar
04	Master Pressure Gauge	Avishko instrument Ahmednagar
05	Master Pressure Gauge	Avishko instrument Ahmednagar
06	Function Generator	NPK Calibration Pimpari Chinchwad Pune
07	Cathode Ray Oscilloscope	NPK Calibration Pimpari Chinchwad Pune
08	Power Supply	NPK Calibration Pimpari Chinchwad Pune
09	Millimeter	NPK Calibration Pimpari Chinchwad Pune
10	Flow Measurement Using Turbine Flow Meter	Anshuman private limited Pune

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipments (Voltage Fluctuations, Constant Supply of Water etc.)? Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

➤ Electrical Supply :

- Diesel Generator is placed at strategic location throughout the system to minimize power losses system.
- Transformer is located close to the load centre, considering other features like optimisation needs for centralised control, operational flexibility etc.
- For the uninterrupted academic activity, a stand by 82.5 KVA DG Genset is available.
- UPS Backup is available in computer laboratories.
- Fire extinguishers are available in laboratories.
- Regular maintenance for the generator is done by operator.
- Yearly maintenance is carried by the authorized mechanic.

➤ Water Supply :

- Elevated service reservoir is constructed in the campus.
- Water coolers with purifiers are installed at different places in college campus
- Continuous safe drinking water supplied by Ahmednagar Municipal Corporation.
- Weekly cleaning of coolers is carried by Civil Maintenance Department.

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?

1. Yes, Institute publishes college prospectus, Departmental Handbook, News-Letter, Broacher, Marathi Handbill and Anti-ragging Broacher Annually.
2. Information provided to the students through these documents is as follows.

A) College prospectus:

It contains information regarding about institute, institute founders, about departments and following points such as

- i) Courses offered for UG and PG
- ii) Eligibility criteria for admissions
- iii) Fees structure
- iv) Unique features of the institute
- v) Infrastructure
- vi) Training and placement cell
- vii) Promotional activities
- viii) Special achievements of the faculty members
- ix) Anti-ragging majors
- x) Department wise information: Introduction, Laboratories, major equipments, events organized and career opportunities

B) Departmental handbook :

It contains the information about

- i. college & department
- ii. Faculty details
- iii. Laboratory details
- iv. Examination pattern/scheme
- v. Passing marks
- vi. Location map
- vii. Academic calendar
- viii. Rules & regulations for conduction of course
- ix. Syllabus structure
- x. Anti-ragging committee structure/details & Anti-ragging squad student counseling, student welfare, women's grievances.
- xi. **Facilities & Awards:** Earn & learn, book bank for reserved category students & meritorious

students, awards to meritorious students.

C) Brochure:

It contains the information related to the institution with state and central government bodies and university. It also gives idea about

- i) The institution
- ii) Contact details
- iii) Infrastructure
- iv) Courses offered
- v) Eligibility for admission
- vi) Scholarship and concession
- vii) Health care/transport/bank
- viii) Training and placement cell
- ix) Anti-ragging committee , women's grievances, reservation grievances, student welfare cell, sexual harassment cell
- x) Promotional activities

D) Marathi Handbill:

Above information related with the institution is written in Marathi language for the local people

E) Anti-ragging Brochure:

Information regarding the anti-ragging is given in detail. Name with contact numbers of the committee members are provided.

Commitment and accountability:

1. Whatever, we have committed through different documentation like college prospectus, brochure, Marathi handbill and anti-ragging brochure at departmental as well as at institutional level is fulfilled by actually implementing it at ground level.
2. Institute is arranging various activities like Industrial visits, Earn & Learn scheme, Meritorious scholarship, Defense scholarship, Fee concession to the wards of foundation staff, Ragging free environment, separate student hostels for first year boys, senior boys and girls.

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

A) Scholarships /Free ships to SC/ST/DT/NT/OBC: Institute Provides facility to students to avail scholarships/ free ships permitted by various bodies of Sate Government

	Academic Year	2014-2015				
Sr.	Scholarship	No. of	Amount	Freeship	No. of	Amount

No		the Students	(in Lakhs)		the Students	(in Lakhs)
1	SC,ST,DT,NT & OBC	959	536.26291	SC,ST,DT,NT &	263	147.42178
2	EBC	472	172.57533	OBC		
2013-2014						
Sr. No	Academic Year	No. of the Students	Amount (in Lakhs)	Freeship	No. of the Students	Amount (in Lakhs)
1	SC,ST,DT,NT & OBC	844	457.30435	SC,ST,DT,NT &	268	137.89252
2	EBC	530	184.23822	OBC		
2012-2013						
Sr. No	Academic Year	No. of the Students	Amount (in Lakhs)	Freeship	No. of the Students	Amount (in Lakhs)
1	SC,ST,DT,NT & OBC	785	399.00615	SC,ST,DT,NT &	247	115.12165
2	EBC	510	169.90185	OBC		
2011-2012						
Sr. No	Academic Year	No. of the Students	Amount (in Lakhs)	Freeship	No. of the Students	Amount (in Lakhs)
1	SC,ST,DT,NT & OBC	678	352.64744	SC,ST,DT,NT &	288	140.20842
2	EBC	460	162.74652	OBC		

B) Tuition Fee Waiver Scheme (TFWS): TFWS is available to the students as per norms of DTE (Director of Technical Education), Government of Maharashtra. For TFWS there is separate 5% quota other than the intake capacity.

TFWS Details

Sr. No	Academic Year	No. of the Students
1	2014-2015	74
2	2013-2014	64
3	2012-2013	42
4	2011-2012	23

C) Financial assistance to meritorious students by the institute:

1. Institute provides financial support to the wards of defense (serviceman).
2. Institute provides financial support to the wards of foundation staff.

Sr. No	Academic Year	No. of the Students	Amount (Rs.)	Total Amount
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		Ward of Defense person	Ward of Staff of institute	Ward of Defense person	Ward of Staff of institute	(Rs.)
1	2014-2015	01	18	7469	135426	142895
2	2013-2014	01	16	7469	154187	161656
3	2012-2013	02	06	13832	49933	63765

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

Sr. No	Academic Year	State Government			Central Government (J & K scholarship)		
		Total no. of Students	Eligible Students	Percentage	Total no. of Students	Eligible Students	Percentage
1	2014-2015	2323	1694	72.92	2323	04	0.172
2	2013-2014	2356	1642	69.694	2356	03	0.127
3	2012-2013	2134	1542	72.255	2134	-	-
4	2011-2012	1949	1426	73.166	1426	-	-

5.1.4 What are the specific support services/facilities available for -

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

- i. Earn & learn scheme details: Poor and needy students participate in Karmaveer Bhaurao Patil Earn & learn scheme run by Savitribai Phule Pune University, Pune

Sr. No.	Academic Year	No of Students	University Share in Rs.	College Share in Rs.	Total Amount
1	2014-2015	256	8,15,000	86,975	9,01,975
2	2013-2014	144	4,22,135	69,425	4,91,560
3	2012-2013	143	2,72,800	98,890	3,71,690
4	2011-2012	145	3,23,700	1,24,040	4,47,740

- ii. Book bank : PDVVP Foundation provides economical support to SC/ST, OBC and economically weaker students by waving their residential/mess/tuition fees.

Sr. No	Academic Year	No. of Students	Facility Provided
1	2014-2015	115	Institute is providing one set of books per student through library under book bank scheme
2	2013-2014	85	
3	2012-2013	72	
4	2011-2012	65	

b) Students with physical disabilities

- During examinations writer facility is provided.
- Separate sitting arrangement is provided during examinations.

- Institute is helping to carry library books and laboratory manuals through authentic person.
- Faculty members, Lab Incharges, Staffs and instructors are informed to look after their activities.
- Special toilet is available.
- Ramp facility is available.

c) Overseas students

Admission quota is available as per DTE norms.

d) Students to participate in various competitions(National and International)

Institute provides T.A & Registration fees in order to motivate the students to participate in Seminar / Workshops, Symposiums, Paper Presentations, sports etc.

Department	Academic Year	No of Students Participated in the Different Events like state level, national & international conferences. Seminar /Workshops, Symposiums, Paper Presentations
Mechanical	2014-2015	15 (NC:09 + State:06)
	2013-2014	29 (NC:23 + State:6)
	2012-2013	19 (NC:15 + State:4)
	2011-2012	61 (NC:38 + State:23)
	2010-2011	62 (NC:28 + State:34)
Civil	2014-2015	10 (State :10)
	2013-2014	12 (State :12)
	2012-2013	20 (State :20)
	2011-2012	26 (State :26)
E & TC	2014-2015	16 (NC:16)
	2013-2014	42 (NC:42)
	2012-2013	44 (NC:27 + State:17)
	2011-2102	90 (NC:61+ State:29)
Electrical	2014-2015	51 (State:51)
	2013-2014	11 (NC:03 + State:08)
	2012-2013	45 (NC:07 + State:38)
	2011-2102	32 (NC:26 + State:06)
Information Technology	2014-2015	14 (NC & State:14)
	2013-2014	31 (NC & State:31)
	2012-2013	22 (NC & State:22)
	2011-2102	24 (NC & State:24)
Instrumentation	2014-2015	35 (NC:26 + State:09)
	2013-2014	05 (NC:05)
	2012-2013	13(NC:07 + State:06)
	2011-2102	04 (NC:04)
	2010-2011	05 (NC:03 + State:02)

- Institute motivates students to take part in motivational and spiritual competitions.
- In Central Library Research Journals are available i. **No. Of Volumes:** 41468,
ii. **No of E-Journals (International):** 600 iii. **No of National Journals:** 64

- iii. College provides in campus Wi-Fi & wired internet facility to the students to keep in touch with the recent developments in academics and research.
- iv. Digital library and language laboratory are available for students.
- v. NPTL lectures series is available for students.

e) Medical assistance to students

Health centre: Padmashri Dr. Vikhe Patil Foundation's Memorial Hospital is situated in the campus having 750 beds & 150 ICU beds capacity.

The Hospital has outpatient department for all specialties which provides 24 x 7 medical services. 24x7 ambulance services are available on call. Each department/section is having First aid kit facility. Number of Medical practitioner's 02 Number of nursing staff 02.

➤ **Medical facility within the Institution**

Sr. No	No of Medical practitioners	Number of nursing Staff.	Remark
01	01	01	For Boys Hostel.
02	01	01	For Girl's Hostel.

➤ **Medical facility nearby?**

- The college is supported by a 550-bed hospital and medical college which is just 0.5 km from the institute with all specialist facilities available round the clock with ambulance facility.
- In all our workshops and various laboratories first-aid boxes are provided.

Availability of ambulance services (response times and medical facility, critical care);

Number of ambulances within the Institution 03.

Sr No	Available ambulance	Contact no	Reached to institute in time duration	Distance
01	03	0241-2778042	3 minute	0.5 Km

➤ **Response-time in calling ambulance services from outside campus:**

Sr No	Name of hospital	Contact no	Distance in Km.	Reached to institute in time duration Minute
01	Nobel Hospital	0241-2421290	08	15
02	Civil Hospital	0241-2430506	11	20
03	City Care Hospital	0241-2329108	13	25
04	Aanand Rishi Hospital	0241-2320473	20	35

Health insurance: Yes, Institute provides health insurance for the students.

f) Organizing coaching classes for competitive exams:

- i) For the GATE examinations departments organizes Aptitude Test, GD, Quiz, Study material

related to GATE and other competitive examinations is available in the College Central library and Departmental Libraries.

ii) Expert lectures are arranged for GATE and UPSC.

A.Y	Name of the Event	Name of the Resource Person	Date	No of students Participated
2014-2015	Seminar on GATE exam	Prof. Auti A.V	22/09/2014	139
	Talent Sprint, Aptitude Test	Jayant Unawane	08/01/2015	350
2013-2014	Seminar on Competitive Exam	Prof. Auti A.V	08/01/2014	162
	Aptitude Test	Jayant Unawane	11/08/2013	178
2012-2013	Seminar on GATE exam	Prof. Auti A.V	01/02/2013	325
	Aptitude Test	Jayant Unawane	03/07/2012	158
2011-2012	Seminar on GATE exam	Prof. Auti A.V	31/01/2012	220
	Aptitude Test	Jayant Unawane	31/07/2011	210

g) Skill development (Spoken English, computer literacy, etc.)

1. Institute conducts various seminars, workshops and guest lecturers, training programmes for communication skill and personality development for the students by experts to enhance their skills.
2. College library has separate area in for digital library with internet facility and provides Wi-Fi connectivity, which helps students stay updated with new technologies and current affairs.
3. Skill development subject is included in the University curriculum.
4. Departments undertakes various skill development programs in different areas like Mobile making, Robotics, C, C++,JAVA ,languages ,Bridge model making, AutoCAD, StaadPro, PLC & SCADA, Networking, R-Cube, PCB making, MATLAB, LATEX, Linux.

h) Support for “slow learners”

1. Extra lectures are allocated to the subject in addition to assigned university approved teaching hours.
2. A 15-20 student batch-Tutor system is implemented for progress of slow learners.
3. Practice practical sessions are arranged for slow learners.
4. Mock practical /oral examination sessions are arranged before appearing university exams.
5. Tutorials, assignment work, mock online /offline tests are arranged.

i) Exposures of students to other institution of higher learning/ corporate/business house etc.

1. Institute permits students to attend industrial visits.
2. Institutes promote students to present their research work in seminars/ workshops/conferences at

various other institutes by providing T.A & Registration fees.

3. Institute provides facility to attend in plant training/vocational training.
4. Institute faculty guide students to work on industry based/sponsored projects.

j) Publication of student magazines:

1. **Departmental News letter:** It includes Events organized by the department throughout the year.
2. **Student Magazine “INDRADHANU”**

Institute publishes the Student Magazine entitled “Indradhanu” every year at the time of Annual Social Gathering. It mainly contains following points.

- i. “Indradhanu” Body
- ii. Messages from founders
- iii. About the Institute
- iv. Awards
- v. Marathi, Hindi & English Editorial Sections
- vi. Art (Paintings, Rangolis)
- vii. Annual Report of the departments
- viii. Institute Achievements
- ix. Cultural activities

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

1. Institute has EDC (entrepreneurial Development Cell)
2. Expert lectures conducted by Training & Placement Cell.

Sr. No	Name of the Expert Lecture /Seminar	Name of the Recourse Person	Date of the Event	No of the students participated
1	Personality Development	Ms. Pratibha Dubey	07/08/2012 & 08/08/2012	70
2	Interview Skills and Soft Skills	Kartik Achwal	27/02/2012	170
3	Machine Design Software	Mr. Kedar Shethia, Feast, Mumbai	10/07/2012	81
4	Test and Industry Readiness Program	Ms. Rahul Yelne, Pulp Leap, Bangalore	09/09/2012	61
5	Interview Techniques	Mr. GIrish Kulkarni	11/03/2013	81
6	Job & Knowledge Portal	Online Demo By BTech Guru.Com	23/08/2013	98
7	Seminar on “C-programming”	Seed Infotech,Pune	04/02/2014	68
8	Seminar on “Solid Modelling” CoreCadd Solutions	Mr. Sajid Khadas (Executive)	27/08/2014	68

9	Seminar on “Soft Skill and Career Development”	Mr.Rajendra Core, Director ,AIMS	28/08/2014	139
10	Seminar on “Personality Development”	Mr.Rajesh Chavhan, CEO	03/09/2014	68
11	Seminar on “Career Development”	Mr.Rajendra Core, Director ,AIMS	10/09/2014	139
12	Seminar on Ahmednagar Auto and Engineering association	Mr. Kulkarni, Coordinator ,AAEA,Ahmednagar	14/11/2014	65
13	Seminar on Fluency In English.	Mrs. Anagha Kalay , Mr.Anthony Thomas	10/01/2015	135
14	Seminar on Personality Development.	Prof. Subodh Deshmukh, CEO, Rangshastra Textiles, Hyderabad	10/01/2015	45
15	Avenues of Higher Education	Prof.T.M. Sathyanarayanan	30/01/2015	68
16	Training Program on “Spoken English”	Mrs. Anagha Kalay	20/04/2015 to 01/05/2015	62
17	Lecture on Entrepreneurship Development	Mrs.Radhika Mulay	30/03/2015	135

515 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.**

A. Co- curricular activities: Quiz competitions, Technical debate and discussions

1. Departments conduct Aptitude test, logical reasoning, general knowledge ,technical test, puzzle test, Group Discussion.
2. Departments organizes various events like paper presentation, poster presentation, Quiz competitions, technical debate and discussions, LAN gaming, circuit making, Robo-competition, C-programming competition, project competition.
3. For the same Institute & Departmental organizations provides financial supports.
4. For smooth conduction of these events departmental level committees comprising faculties as well as student members are formed.
5. Students are motivated & inspired by invited experts from various technical fields.

B. Extra-Curricular & cultural activities:

1. Institute celebrates Shiv-Jayanti, Ganeshutsav, Engineers Day, Teachers Day, Youth Day, Independence Day, Republic Day, Padmashree Dr.Vithalrao Vikhe Patil Jayanti & Punyatithi , Woman’s Day etc.

2. Every year institute organizes Annual Social Gathering. For conduction of these activities students are motivated by providing drapery, training from professional singers/musicians/choreographers.
3. Every year institute arranges art exhibition comprising painting, rangoli, photography, literature etc.
4. The renowned personalities from the field of Art are invited to guide the students.
5. For the same Institute Provides Financial support.
6. For smooth conduction of these events institute level committees comprising faculties as well as student members are formed.

C. Sports:

1. Institute organizes University sports academic program as well as Annual social sports.
2. In annual Sports all Indoor & Outdoor games are arranged for the students. And Winner & Runner-ups are sent to University sports academic program.
3. Institute provides all sports material for Indoor & Outdoor games.
4. Institute is having large sport ground for Outdoor games.

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.

1. Institute organizes aptitude test as well as GATE exam test department wise.
2. In order to prepare students for competitive exams seminars like personality development, spoken English & interviewing techniques organized.

Department	Academic year	Name of the Exam	No of Students Qualified
Mechanical	2014-2015	GATE	01
	2013-2014		04
	2012-2013		02
	2011-2012		05
E & TC	2014-2015	GATE	02
	2013-2014		01
	2012-2013		04
	2011-2012	GMAT	01
		GATE	NIL
2010-2011	TOFEL	03	
Electrical	2013-2014	GATE	01
	2012-2013		03
	2011-2012		02
	2010-2011		02
I.T	2011-2012	GATE	NIL
	2012-2013		NIL
	2013-2014		NIL

Civil	2014-2015	GATE	NIL
	2013-2014		02
	2012-2013		01
	2011-2012		NIL
Instrumentation	2014-2015	GATE	01
	2013-2014		NIL
	2012-2013		NIL
	2011-2012		NIL

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

Institute has constituted different committees for counseling the students as

1. Academic Monitoring Committee
2. Counseling Committee
3. Anti-ragging Committee
4. Women Grievance & Redressal Cell
5. Reservation grievances committee
6. Student Welfare
7. Training & placement cell.

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).

Yes, institutions have a structured mechanism for career guidance and placement for students.

1. Training and placement cell of the college organizes campus interviews for the students.
2. Each Department organizes mock aptitude test, group discussions and Personal interviews.
3. Training and placement cell organizes expert lectures on personality development & interviewing techniques.

List of employers and the programs

Academic Year:2014:2015					
Sr. No	Company Name	Students Appeared	Date of Interview	No. of Selected Student	Name of the department
1	Netwin Pvt.Ltd.	30	26/02/2015	NA	IT:00
2	Nainko Exim Pvt.Ltd.	80	19/02/2015	27	E & TC: 27
3	Netwin Pvt.Ltd.	30	14/02/2015	NA	IT:00
4	Indian Army, Cap. Tanmay	150	01/10/2015	11	Mech:05 E&Tc:03

	Bharide				Electrical:02 Instru:01
5	Web Tech developers Pvt. Ltd.	25	14/11/2014	NA	IT:00
6	KSB PUMPS PVT LTD	61	19/09/2014	15	Mech:15
7	Infinity ITES	79	22/08/2014	16	E & TC: 16
9	CMS InfoTech, Mumbai	125	20/03/2015 31/03/2015	03	E & TC:03 IT:01

Academic Year:2013:2014

Sr. No	Company Name	Students Appeared	Date of Interview	No. of Selected Student	Name of the department
1	Indian Army	40	27/12/2013	02	Mech:01 E &Tc:01
2.	Spectrum Planning Services Ltd.	74	30/12/2013	05	E&TC:04 Instru:01
3	Lead Info Technologies Pvt.Ltd.Pune	50	18/01/2014	14	IT:14
4.	Androzen Software Solutions,Pune	50	22/02/2014	05	IT:05
5.	I:Brain, Ahmednagar	46	15/02/2014	05	IT:05
6	Revenir Development System Pvt. Ltd. Pune	54	22/02/2014	10	IT:10
7	Web Tech Developers System, Pune	28	11/03/2014	04	IT:04
8	Hoganas India Pvt. Ltd.	06	05/02/2014	01	Electrical:01
9	Kirloskar Group	30	13/01/2014	Nil	Mech, Electrical, Instru.
10	Sanmar Group	10	29/11/2013	Nil	Nil
11	Mphasis, Bangalore	01	23/09/2013	01	I.T:01
12	Times of India	02	25/03/2013	01	Mech:01
13	C.Tech Pune	40	20/03/2013	10	Mech:10
14	Savy Software Pvt. Ltd.	32	28/03/2014	01	IT:01
15	Hitachi Home &Life Solutions Ltd.Thane	10	18/04/2014	05	Mech:05
16	PG Electroplast Ltd., Supa, Ahmednagar	43	25/06/2014	05	Mech:03 Instru: 02
17	Vedang Cellular Services Pvt. Ltd.,Mumbai	30	28/06/2014	09	E&TC.:09

Academic Year:2012:2013

Sr. No	Company Name	Students Appeared	Date of Interview	No. of Selected Student	Name of the department
1	Indian army U.E.S.23	05	18/12/2012	5	Mech:02 Electrical: 02 E&TC:01
2	L&T Ltd.	02	02/12/2012	1	Mech 01
3	Prothius engineering services	20	15/01/2013	6	Civil :06
4	P.G. electroplast limited supa	08	05/10/2012	4	Mech: 02 Instru: 02
5	R. & S. Electronics (India) Pvt. Ltd., Mumbai		08/01/2013	1	E&TC:01

6	Noble Sonic	01	03/01/2013	1	Mechanical :01
7	Accenture Services Limited	02	15/03/2013	1	E&Tc:01
8	Capatronics Systems, Bangalore	10	20/03/2013	1	Instru: 01
9	Daulat Group, Sangamner	11	30/04/2013	1	Electrical :01
10	Art Group Of Industries, Valsad Gujarat.	04	21/06/2013	1	Mechanical:01
11	Unique Vastushilp & Projects Private Ltd. Pune	18	26/06/2013	4	Civil :4
12	Ekdent Moulders & Engineeris pvt ltd	10	02/07/2013	5	Mechanical :5
13	Forbes Marshall	03	27/06/2013	1	Instrumentation:1
14	Nikash CNC	09	17/08/2013	1	Mechanical:1
Academic Year:2011:2012					
Sr. No	Company Name	Students Appeared	Date of Interview	No. of Selected Student	Name of the department
1	Klassic Wheels Pvt. Ltd., E:7, MIDC Ahmednagar	25	28/08/2012	06	Mech:06
2	BLAST CARBO,Mumbai	16	26/08/2012	01	Mech:01
3	R. & S. Electronics India Pvt. Ltd.,Mumbai	22	26/08/2012	01	E & TC:01
4	SUNGARD, Aundh Pune	18	25/08/2012	01	IT:01
5	Endurance Technologies Pvt. Ltd., MIDC Waluj, Aurangabad	15	21/08/2012	01	Mech:01
6	Electroyog, Pune	16	10/07/2012	01	E & TC:01
7	Epitome, MIDC, Ahmednagar	19	10/07/2012	01	E & TC:01
8	Nainko Exim Ltd., Ranjangaon	30		04	E & TC:01
9	Able Tech., Pune	20	08/07/2012	01	E & TC:01
10	AM Trident Technologies Pune	18	07/07/2012	02	Mech:02
11	Crompton Greaves, Ahmednagar	16	18/06/2012	01	IT:01
12	Prasad Sugar Mills Pvt. Ltd., Vambori, Rahuri	40	05/06/2012	14	Mech: 03 Electrical:02 E&TC: 03 Civil:03 Instru:03
13	D:net Systems Ahmednagar	40	15/05/2012	07	Mech:07
14	Torrent Power Ltd., Bhiwandi	46	11/05/2012	03	Electrical:03
15	J.C.B. India Ltd., Pune	21	09/05/2012	01	Electrical:01
16	Seed Infotech Ltd., Pune	60	17/04/2012	08	E & TC: 08
17	Kukson Automation Pvt. Ltd., Bhosari, Pune	26	16/04/2012	03	E & TC: 03
18	C.V.Kund Consultants Pvt. Ltd., Pune	23	14/04/2012	04	Civil:04
19	Prothious Engineering Services, Nashik	28	29/03/2012	03	Civil:03
20	Klassic Wheels Pvt. Ltd. Ahmednagar	26	15/03/2012	02	Electrical:02

21	Visteon Engineering Center	10	06/02/2012	01	Mech:01
22	Kirloskar Group	10	13 & 14/01/2012	01	Mech:01
23	Syntel Ltd Pune	10	20/11/2011	01	IT:01
24	Tata Consultancy Services	11	18/10/2011	01	IT:01
25	UES Indian Army – School of Armoured Warfare	43	27/09/2011	28	Mech: 02 E&TC: 07 Civil:07 Instru:02 IT:10
26	Larson & Tubro, Ahmednagar	23	20/09/2011	02	Mech:02

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.

Institute have a student grievance Redressal cell.

1. Anti-ragging Committee
2. Women Grievance & Redressal Cell.
3. Grievance for Reserved
4. Student Welfare

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

1. Institute have constituted sexual harassment cell.
2. Flex boards of this cell are displayed with their mobile numbers at the prominent places.

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?

The institute has constituted Anti-Ragging Committee. No such incidences have been reported so far.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

- A. Following student welfare schemes are implemented with the help of Savitribai Phule Pune University, Pune
 - i. Karmaveer Bhaurao Patil Earn & learn scheme.
 - ii. Personality development for the girls
 - iii. Book bank scheme for SC/ST students.
- B. Following student welfare schemes are implemented by institute
 - i. For the meritorious students (Cash Prizes & Concession in the fees)
 - ii. Free Medical treatment
 - iii. Concession in tuition fees for the wards of institute staff.

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?

The institution have a registered alumni association named "Padmashri Dr Vithalrao Vikhe Patil College

of Engineering, Ahmednagar Alumni Association”.

1. Alumni contribute to the institute by taking expert lectures, workshops & seminars for the students.

Sr. No	Academic year	Name of the Event	Name of the alumni	Department	Date of the Event	No of Students participated
1	2014-2015	Interview Techniques	Mr.Bhalke Somnath	Mechanical	24/03/2015	30
2	2014-2015	Carrier Guidance	Mr.Kharad Bharat		17/09/2014	40
3	2014-2015	Seminar on GATE preparation	Mr.Jadhav		03/04/2015	80
4	2013-2014	Software Technique	Mr Karale Nilesh		19/03/2014	20
5	2013-2014	Carrier Guidance	Mr.Shelke Sandeep		1/10/2013	32
6	2012-2013	Carrier Guidance	Mr Ashtekar Jaydeep		13/08/2012	30
7	2012-2013	Interview Techniques	Mr Abak Chetan		15/03/2013	40
8	2012-2013	Carrier Guidance	Mr Dhadge Balasaheb		10/08/2011	35
9	2012-2013	Entrepreneur Development	Mr Baraskar		01/03/2012	30
1.	2014-2015	Guidance about carrier	Mr. Vedant Ramekar	E & TC	14/01/2015	50
2	2014-2015	Seminar on Embedded System	Mr. Abhijit Solanki		04/11/2014	100
3	2013-2014	Automated Guided vehicle. Resource person :- Mr. Sunil Tomar General Manager, Tata Motors, Pune.	Mr. Nitin Wane		19/03/2013	110
4	2013-2014	Guidance about project preparation by exel technologies, pune.	Mr. Bharat pawar		13/02/2014	50
1	2014-15	Career in instrumentation engineering	Mr.Sandeep Thange	Instrumentation	19/03/2015	TE&BE Student
2	2012-13	Fuzzy logic & application	Dr. Shradha Ingale		9/08/2012	BE Student
3	2011-12	Temperature Control loop	Mr.Deepak Ingole		5/10/2011	BE Student
4		Career in instrumentation engineering	Mr.Sandeep Thange		5/8/2011	TE&BE Student
5		Industrial Building	Mr.Prashant		22/8/2011	BE Student

		Automation	Kulkarni			
6	2010-11	Basic of Instrumentation Technology	Mr.Mangesh Bhagat Sr.engineer L&T Ltd Pawai Mumbai		11/2/2011	TE&BE Student
7		Boiler Instrumentation	Mr.Shete Nagendra		19/3/2011	BE Student
1	2013-14	Expert lecture Civil Services	Er.Sachin Chavan	Electrical	24/01/13	60
2	2012-13	Expert lecture On Power Quality	Er.C.Y.Chavan		22/01/13	75
3	2011-12	Expert lecture on Electrical Machine	Er.Sujay Darekar		20/01/12	68
1		Industrial Trends	Revati Bordavekar	I.T		50
2		Cyber Security	Gaurav Singh			100
1	2014-2015	Expert Lecture on “Carrier guidance to students”	Kamod Kharade	Civil	27/02/2015	425
2		Placement “CEN LTd.”	Swapnil Bhor		23/02/2014	86
3	2012-2013	Project Visit & Guidance for B.E Students	Anand Udmale		20/10/210 & 28/08/2013	06
4	2011-2012	“AutoCAD training to the Students”	A.A.Waghmare		22/08/2012	35

2. Alumni donates funds to the institute

Sr. No	Academic year	Type of Donation	Details	Name of the alumni	Date	Department
1.	2014-2015	Plant Donation	1000 plants Donated to institute	Miss. Deepa Raut	14/07/2014	E & TC
2.	2012-2013	LCD Projector	01	Dr.M.Y.Khire		Mech
3.		Model of gear box	01	Ganesh Karale		Mech

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:

Student progression	Branch	Academic Year			
		2011-2012	2012- 2013	2013- 2014	2014-2015
UG to PG	Mech	16	21	10	Result Waiting
	Civil	11	03	04	
	E & TC	04	07	08	
	Electrical	09	15	08	
	Instrumentation	02	02	04	
	IT	02	02	04	
PG to M. Phil.	NA				
Employed 1. Campus Selection	Mech	26	13	20	20
	Civil	05	14	Nil	Nil
	E & TC	23	09	17	27
	Electrical	Nil	02	Nil	Nil
	Instrumentation	09	02	03	01
	IT	13	Nil	40	01
2. Other than campus recruitment	Mech	94	107	100	Result Waiting
	Civil	49	57	56	
	E & TC	114	113	112	
	Electrical	51	45	52	
	Instrumentation	41	41	52	
	IT	47	60	20	

4.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (course 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.

A. Pass Percentage:

Sr. No	Name of the course	Pass Percentage of Academic Year											
		2010-2011			2011-12			2012-2013			2013-2014		
		No. of Students Admitted at B.E	No. of Students Passed	%	No. of Students Admitted at B.E	No. of Students Passed	%	No. of Students Admitted at B.E	No. of Students Passed	%	No. of Students Admitted at B.E	No. of Students Passed	%
I	UG												
1	Mech	96	79	82.29	90	55	61.11	126	104	82.53	128	103	80.46
2	Civil	22	14	63.60	42	33	78.00	59	38	64.40	85	59	69.40
3	E&TC	49	49	100	67	62	92.53	106	93	87.73	108	92	85.18
4	Elect	67	52	77.61	70	59	84.28	85	68	80.00	58	52	89.65
5	Instru	53	48	90.56	59	53	90.16	63	57	91.93	65	50	78.26
6	IT	78	63	80.80	66	57	86.40	54	43	79.60	72	67	93.10
II	PG												
1	Civil	15	2	13.30	15	7	46.70	15	4	56.70	24	-	-
2	Mech	NA						24			24	-	-

B. Completion Rate:

Mechanical

Academic Year	F.E			S.E			T.E			B.E		
	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate
2010-2011	401	259	64.58	148	111	75	96	72	75	96	79	82.29
2011-2012	479	292	60.96	147	100	68.02	132	113	85.6	90	55	61.11
2012-2013	449	266	59.2	148	116	78.37	132	106	80.3	126	104	82.53
2013-2014	412	231	56.06	209	169	80.36	155	119	76.7	128	103	80.46

Electronics & Telecommunication

Academic Year	F.E			S.E			T.E			B.E		
	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate
2010-2011	401	259	64.58	147	90	61.22	73	66	90.4	49	49	100
2011-2012	479	292	60.96	142	63	44.36	122	100	81.96	67	62	92.53
2012-2013	449	266	59.2	141	107	75.88	105	92	87.61	106	93	87.73
2013-2014	412	231	56.06	151	112	74.17	166	117	70.48	108	92	85.18

Instrumentation & Control

Academic Year	F.E			S.E			T.E			B.E		
	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate
2010-2011	401	259	64.58	61	53	86.88	61	54	88.52	53	48	90.56
2011-2012	479	292	60.96	72	52	72.22	68	59	86.76	59	53	90.16
2012-2013	449	266	59.20	46	40	86.95	61	60	98.36	63	57	91.93
2013-2014	412	231	56.06	42	39	92.85	52	48	92.30	65	50	78.26

Electrical Engineering

Academic Year	F.E			S.E			T.E			B.E		
	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate
2010-2011	401	259	64.58	74	60	81.08	80	67	83.25	67	52	77.61
2011-2012	479	292	60.96	80	54	67.5	79	72	91.13	70	59	84.28
2012-2013	449	266	59.20	70	57	82.85	63	54	85.70	85	68	80
2013-2014	412	231	56.06	76	62	81.57	80	65	81.25	58	52	89.65

Civil Engineering

Academic Year	F.E			S.E			T.E			B.E		
	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate
2010-2011	401	259	64.58	72	41	56.94	46	40	86.95	28	26	92.85
2011-2012	479	292	60.96	77	41	53.24	73	53	72.60	37	33	89.18
2012-2013	449	266	59.20	128	77	60.15	68	54	79.41	53	37	69.81
2013-2014	412	231	56.06	132	123	93.18	155	114	73.54	75	56	74.66

Information Technology

Academic Year	F.E			S.E			T.E			B.E		
	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate	No. of Students Admitted	No. of Students Completed	Completion Rate
2010-2011	401	259	64.58	72	47	65.28	77	62	80.52	78	63	80.77
2011-2012	479	292	60.96	76	47	61.84	58	42	72.41	66	57	86.36
2012-2013	449	266	59.20	63	50	79.36	65	61	93.85	54	43	79.63
2013-2014	412	231	56.06	76	60	78.95	74	61	82.43	72	67	93.05

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

1. Institute organizes seminars and expert lectures regarding GATE and aptitude test preparation for the students
2. Students are motivated to attend different education fairs and education expos.
3. Students are provided the information related with courses that could help them to get the jobs in the market through Entrepreneurship Development Cell (EDC).

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

1. Extra lectures at first year level from 9 -10 a.m are arranged
2. Counseling is provided by tutors/mentors and head of the department.
3. Faculty advices to such students for proper selection of theory papers to be appeared for the end semester to avoid failing of year.

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.

Indoor Games	Outdoor Games
1. Badminton	1. Cricket-Boys & Girls
2. Table Tennis	2. Volley Ball
3. Chess	3. Foot Ball
	4. Basket Ball
	5. Athletics
	6. Kabaddi

A) Cultural Activities in Annual Social Gathering "RHYTHM"

Academic Year	Name of the Events	No of Performances	No of Students Participated
2014-2015	1 Singing	20	35
	2 Dance	25	50
	3 Drama	04	32
	4 Ramp	01	16
2013-2014	1 Singing	12	16
	2 Dance	24	36
	3 Drama	04	24
2012-2013	1 Singing	20	23
	2 Dance	22	64
	3 Drama	06	45
	4 Ramp	01	17
2011-2012	1 Singing	29	35
	2 College Band	01	04
	3 Dance	16	48
	4 Drama	07	58
	5 Ramp	02	55

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.

University & Zonal Sports Activity:

Academic Year : 2014-2015				
A. Inter Collegiate Tournament Participation (As per University & Zonal Sports Programme)				
Sr. No.	Name of the Team	Organized Place	No. of participants	Selection Level / Prize Awarded
1	Chess	New Arts, Sci. & Comm College, Sonai	06	Second Place in Intercollegiate Tournament
2	Volley Ball (Boys)	A'Nagar College, A'Nagar	12	Intercollegiate participation
3	Table Tennis (Boys)	K.J.S. College, Kopergaon	04	Winner Team. First Place in Intercollegiate Tournament
4	Basket Ball (Boys)	A'Nagar College, A'Nagar	12	Intercollegiate participation
5	Swimming	Adv.M.N.Deshmukh College, Rajur	05	Intercollegiate participation
6	Badminton (Girls)	New Law College, A'Nagar	04	Intercollegiate participation
7	Badminton (Boys)	New Law College, A'Nagar	06	Runners Up Team in Qtr. Final Intercollegiate Tournament
8	Cricket (Boys)	New Arts, Comm & Sci. College, A'Nagar	17	South Zone Runners Up Team in Semi Final Intercollegiate Tournament
9	Basket Ball (Girls)	P.V.P.College, Loni	09	Second Place in Intercollegiate Tournament
10	Foot Ball (Boys)	A'Nagar College, A'Nagar	15	Intercollegiate participation
11	Athletics(Boys)	Jijamata College, Bhenda	07	Intercollegiate participation
12	Athletics (Girls)	Jijamata College, Bhenda	05	Intercollegiate participation
13	Fencing	R.B.N.B. College, Shirampur.	01	Second Place in Fencing Intercollegiate Tournament
14	Judo	Pemraj Sarda College, Ahmednagar	01	Second Place in Judo Intercollegiate Tournament
B. Individual Students Selection for Inter collegiate/Inter-zonal University tournament.				
Sr. No.	Name of the selected student	Selection level/ Prize Awarded	Name of the Department	Selection Level / Prize Awarded
Chess (Boys)				
1	Prashant Bahirat, B.E. Mech.	Indira Sci.Comm. College, Tathawade, Pune	Mechanical	Interzonal Participation
Table Tennis (Boys)				

2	Chaitanya Mungi, T.E. E&TC	Marathwada Mitra Mandal Inst of Tech.,Lohgaon,Pune	E & TC	Interzonal Participation
3	Anmol Welpulwar,F.E.		First Year	Interzonal Participation
4	Shubham Pawar, T.E.Mech.		Mechanical	No Participation
Badminton (Boys)				
5	Omprakash Shinde, B.E.Civil	Modern College, Shivajinagar, Pune	Civil	Interzonal Participation
Badminton (Girls)				
7	Miss Smita Shendge, B.E. E&TC	Modern College, Shivajinagar, Pune	E&TC	Interzonal Participation
Basket Ball (Girls)				
8	Miss Monika Lankeshwar,T.E.Mech.	P.V.P.College, Loni	Mechanical	Interzonal Participation
9	Miss Shubhangi Wakchaure,T.E.Mech.		Mechanical	Interzonal Participation
10	Miss Bhagyashri Patil		I.T	Interzonal Participation
11	Miss Priyanka Chaudhari, S.E.Instru.		Instrumentation	No Participation (Reserve for selection)
Fencing				
12	Swapnil Ghule, S.E. Civi	R.B.N.B.College, Shrirampur	Civil	Interzonal Participation
Judo				
13	Akshay Rajput, B.E.Mech.	Pemraj Sarda College, A'Nagar	Mechanical	Interzonal Participation

Academic Year : 2013-2014			
A. Inter Collegiate Tournament Participation (As per University & Zonal Sports Programme)			
Sr. No.	Name of the Team	Organized Place	No. of participants
1	Foot Ball	A'Nagar College, A'Nagar	17
2	Chess	New Arts,Comm & Sci. College, Parner	06
3	Cricket (Boys)	New Arts,Comm & Sci. College, A'Nagar	16
4	Basket Ball	Pemraj Sarda College, A'Nagar.	12
5	Cricket (Girls)	P.D.V.V.P. COE,A'Nagar	12
6	Badminton (Girls)	New Law College, A'Nagar	04
7	Badminton (Boys)	New Law College, A'Nagar	06
8	Table Tennis (Boys)	Sanjiwani Pharmacy College, Kopargaon	05
9	Athletics	Babuji Avhad College, Pathardi	07

10	Judo	Pemraj Sarda College Ahmednagar	01
11	Shooting	Pemraj Sarda College Ahmednagar	01
B. Individual Students Selection for Inter-zonal University tournament.			
Sr. No.	Name of the selected student	Selection level/ Prize Awarded	Name of the Department
1	Vivek Konda	Foot Ball	B.E. E&TC
2	Vishnu Shrinivasan	Foot Ball (Runner Up)	B.E. Instru
3	Samruddhi Shelawale	Cricket	B.E. Civil
4	Anjali Nawale	Cricket	B.E. I.T.
5	Shubhangi Wakchaure	Cricket	S.E.Mech.
6	Karishma Yashvantrao	Cricket	B.E.Mech
7	Vaishali Bhosale	Cricket (Runner Up)	B.E.Instru
8	Pratiksha Vyawahare	Cricket (Runner Up)	B.E.Mech.
9	Ajay Hatte	Athletics	,B.E.Civil
10	Suraj Aware	Shooting	T.E.Civil
11	Chaitanya Mungi	Table Tennis	S.E.E&TC
12	Pratik Kadam	Table Tennis	B.E.Mech.
13	Shubham Pawar	Table Tennis	S.E.Mech.

Academic Year : 2012-2013			
A. Inter Collegiate Tournament Participation (As per University & Zonal Sports Programme)			
Sr. No.	Name of the Team	Organized Place	No. of participants
01	Chess	Pemraj Sarda College, Ahmednagar.	05
02	Rifle Shooting- Boys	Pemraj Sarda College, A'Nagar	01
03	Basketball-Boys	Padmashri Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar.	11
04	Football-Boys	Ahmednagar College, Ahmednagar	15
05	Foot Ball-Girls	Ahmednagar College, Ahmednagar	01
06	Cricket-Boys	New Arts,Commerce & Sci. College, Shevgaon.	16
07	Badminton-Boys	Padmashri Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar.	05
08	Badminton-Girls	Padmashri Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar.	04
09	Kabaddi –Boys	Sonai College, Sonai	10
10	Kho-Kho – Boys	Shevgaon College, Shevgaon	12
11	Athletics	Sangamner College, Sangamner	04

12	Power Lifting	C.D.J.College, Shrirampur	01
13	Fencing-Boys	S.S.G.M.College, Kopargaon	01
B. Institute Sports Team Achievements			
Sr. No.	Name of the Team/Game	Team Achievements/Prize Awarded-As per students selection for university inter-zonal tournaments	
1.	Badminton-Boys	Quarter Final runner up team in inter-collegiate tournament.	
2.	Chess-Boys	Third Place in inter-collegiate tournament.	
3.	Football-Boys	Winner team in final in inter-collegiate tournament.	
4.	Football-Girls	Selection trial for zonal selection	
5.	Cricket -Boys	Quarter Final Runners up team in inter collegiate tournament.	
6.	Basketball- Boys	Semi Final Runners up team in inter-collegiate tournament	
C. Individual Students Selection for Inter collegiate/Inter-zonal University tournament.			
Sr. No.	Name of the selected student	Selection level/ Prize Awarded	Name of the Department
01	Hatte Ajay	200 mtr.3 rd place- inter collegiate athletics	Civil
02	Hatte Ajay	400 mtr.3 rd place- inter collegiate athletics	Civil
03	Malode Niranjana	2 nd place in chess, selection for zonal	Instru. & Control
04	Suraj Aware	1 st place in Rifle shooting	Civil
05	Ghule Swapnil	3 rd place in Fencing –Foil event	Civil
06	Miss Swati Dagale	Football -Inter Zonal	Electrical
07	Miss Anuradha Rani	Badminton –Inter Zonal	E&TC
08	Karpe Prashant	Basket ball- Inter Zonal- Not participated	Electrical
09	Nikam Sushant	Foot Ball- Inter Zonal	Civil
10	Vishnu Shreenivasan	Foot Ball- Inter Zonal	Instru. & Control
11	Konda Vivek	Foot Ball- Inter Zonal	E&TC
12	Katore Navnath	Foot Ball- Inter Zonal	Mechanical
13	Hatte Ajay	Foot Ball- Inter Zonal	Civil
14	Sharma Abhinav	Foot Ball- Inter Zonal (Standby I)	E&TC
15	Ghule Swapnil	Fencing- Inter Zonal	Civil
16	Hatte Ajay	Kho kho- Inter Zonal	Civil
17	Suraj Aware	Rifle Shooting-Inter Zonal	Civil
18	Rahul Dubey	Basket Ball-Inter Zonal	Mech.

19	Ghule Swapnil	All India Inter-university fencing tournament	Civil
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Academic Year : 2011-2012

**A. Inter Collegiate Tournament Participation
(As per University & Zonal Sports Programme)**

Sr. No.	Name of the Team	Organized Place	No. of participants
01	Chess	Pemraj Sarda College,Ahmednagar.	05
02	Cross Country	New Arts,Commerce & Sci. College,Shevgaon.	01
03	Basketball-Boys	Pemraj Sarda College,Ahmednagar.	12
04	Football-Boys	Ahmednagar College, Ahmednagar	16
05	Foot Ball-Girls	Padmashri Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar.	01
06	Cricket-Boys	Ahmednagar College, Ahmednagar	16
07	Volley Ball- Boys	C.D.J. College Shirampur	12
08	Basket Ball-Girls	Adv. M.N.Deshmukh College, Rajur	08
09	Kabaddi	Jamkhed College, Jamkhed	11
09	Kho-Kho – Boys	New Arts,Commerce & Sci. College,Shevgaon.	12
10	Shooting- Boys	Pemraj Sarda College, A'Nagar	01
11	Badminton-Boys	New Law College, A'Nagar	05

B. Institute Sports Team Achievements

Sr. No.	Name of the Team/Game	Team Achievements/Prize Awarded-As per students selection for university inter-zonal tournaments
1.	Basketball-Boys	Quarter Final runner up team in inter-collegiate tournament.
2.	Football-Boys	Quarter Final runner up team in inter-collegiate tournament.
3.	Football-Girls	Selection trial for zonal selection
4.	Cricket -Boys	Runners up team in South Zone inter-collegiate final match
5.	Volley Ball-Boys	Semi Final round Runners up team in inter-collegiate tournament
6.	Basketball-Girls	Semi Final Runners Up team in inter collegiate tournament.
7.	Kabaddi- Boys	Quarter Final Runners up team in inter collegiate tournament.
8.	Kho-Kho-Boys	Quarter Final Runners up team in inter collegiate tournament.
9.	Badminton-Boys	Runners up team in final match in intercollegiate tournament.

C. Individual Students Selection for Inter-zonal University tournament.

Sr. No.	Name of the selected student	Selection level/ Prize Awarded	Name of the Department
01	Karpe Prashant	Basket Ball- Inter Zonal II at Chakan College, Pune	Electrical
02	Rahul Kumar Dubey	Basket Ball- Inter Zonal stand by selection for Zonal team	Mechanical
03	Nong Nankar	Foot ball- Inter Zonal	Civil
04	Ms.Swati Dagale	Foot ball- Inter Zonal	Electrical
05	Pravin Bhat	Cricket - Inter Zonal	Electrical
06	Pratik Kadam	Volley ball- Inter Zonal	Mechanical

07	Ms. Rashmi Prasad	Basket ball- Inter Zonal II	Instru. & Control
08	Ms. Harshada Rokade	Basket ball- Inter Zonal II	Information Technology
09	Ms. Monika Lankeshwar	Foot Ball- Inter Zonal stand by selection for Zonal team	Mechanical
10	Hatte Ajay	Kho-Kho -Inter Zonal	Civil
11	Suraj Aware	Shooting- Inter Zonal	Civil
12	Amit Singh	Badminton – Inter Zonal	E&TC
13	Pratik Khule	Badminton – Inter Zonal	
14	Akshay Poojari	Badminton – Inter Zonal (stand by)	

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?

Student Feedback:

1. Employer Feedback: T&P department collects the feedback from industry.
2. The suggestions given by graduates, alumni and employers are taken into consideration to set the course objectives whenever required to improve the quality in teaching learning process.

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.

1. Institute encourages the students to attend workshop & seminars in various higher level institutes.
2. Institute provides the platform for the students to get involved in various activities such as paper presentation, departmental news letter college magazines as well as all the types of documentation works including technical.
3. Every year college publishes a magazine entitled “Indradhanu” and has won University level prize three times.

5.3.5 Does the college have a Student Council or any similar body?

Give details on its selection, constitution, activities and funding.

College has formed the Student Council. Student Council consisting of the following members

Student council Executive committee

Sr. No.	Post Name	Person Allocated
1.	Chairman	Principal
2.	Student Coordinator(General Secretary)	One student from each class who has shown academic merit at the examination held in the preceding year and who is engage in the full time studies in the college

3.	Class Representative	Students from each class on merit basis.
4.	University Representative	Student nominated amongst the class representatives.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

A. Academic committee:

Academic monitoring committee (Institute level)

Sr. No.	Post Name
1.	Principal
2.	Vice Principal
3.	Senior Members from each department

Academic monitoring committee (Department level)

Sr. No.	Post Name
1.	HOD
2.	Two Senior Members from the department
3.	Student representative

Magazine committee:

Sr. No.	Post Name
1.	President (Principal)
2.	Magazine Incharge (Senior Faculty member Nominated by principal)
3.	Magazine Secretary
4.	Magazine Chief Editor

B. Administrative

1. Anti-ragging committee
2. Food Quality Assessment Committee

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

1. Alumni database is maintained properly in the department.
2. Institute is continuously in touch with alumni by inviting them for expert lectures, seminars, conferences and workshops.
3. Distinguished alumni are invited for the Annual Social Gathering.
4. Alumni meet is conducted regularly
5. Alumni are continuously contacted through social media such as Facebook, Whatsapp etc.
6. Alumni who are working in various companies at top positions guiding the final year student.

Criteria VI : Governance, Leadership & Management

6.1 Institutional Vision & Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institutions distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institutions traditions and value orientations, vision for the future, etc.?

Vision of the Institution:

It is aim to provide the finest environment for teaching, learning, research, innovation and character building so as to mould youth of today into world-class technocrats of tomorrow who would endeavor to increase the quality of life for mankind.

Mission of the Institution:

Padmashri Dr. Vithalrao Vikhe Patil College of Engineering Ahmednagar is committed to impart excellent technical education to the students to create techno excellent citizens who will keep abreast with the changing technology and will be retaining rich cultural identity to the full satisfaction of our stakeholders and society at large with further commitment to serve the nation.

Short Term Objectives:

- Upliftment of women
- Industry institute interaction
- Expansion of research bandwidth
- Person independent evaluation system

Long Term Objectives:

- Collaboration with foreign Universities.
- To establish a Global Network of Centers of Excellence
- To Deliver Quality Training Programmes Consistently
- To Meet the Requirements of Customers Continuously
- To Develop, Improvise, Customize Technologies and Teaching Methodologies
- To Recruit the Best Teaching Talent and Create an Environment for High Level Performance

Communication to Stakeholders:

1. The Governing Body, Local Management Committee and College Academic Committee are important bodies of the institution.
2. Governing Body & Local Management Committee are involved in implementing various policy decisions in connection with starting of new courses, budget & fund allocation, infrastructure development etc.
3. College Academic committee meetings held frequently to plan & discuss key issues in tune with the vision and mission and are communicated properly to the staffs and students.
4. Continuous efforts are taken to enhance teaching learning process so as to impart quality technical education by arranging seminars, deputing students
5. The mission, vision and objectives of the college are displayed at all prominent places in the college.
6. It is communicated to the students through college prospectus, Newsletter, Souvenir, Handbook and also orally during the induction program.
7. The vision and mission statement of the college is also placed in the college website.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

PDVVP College of Engineering is governed by PDVVP Foundation, Ahmednagar by well defined Quality policies. The Chairman of the trust, The CEO, The Secretary General, The Director Technical, The Principal and the staff/faculty are always stepping in together for designing and proper applications of the quality policy and plans. The Principal of the college is the head of the institution and provides requisite leadership to the system. The Principal ensures that all provisions of the University bye-laws, the Statutes and the regulations are observed. He also convenes meetings of the College Academic Committee. The Members of the Management, Principal and other officers are always available to the faculty to present their views and ideas. The opinions of faculty and staff will be considered positively for evolving policies. The Principal provides academic leadership and in association with the various faculties, evolves strategies for academic growth. The faculty is actively involved in decision-making process. The teachers attain periodic meetings. The recommendations of the Coordinators of the Committees are submitted to the Managing Committee and the Management arrives at suitable decisions for implementation. Two faculty members, in the capacity of faculty representatives, are members of the Local Managing Committee. Hence they are actively involved in the decision-making process to sustain and enhance quality of education imparted by the institution.

The following aspects of our functioning sheds light on our commitment towards enhancement of the teaching-learning process.

Well-equipped and spacious laboratories & classrooms, language labs, computers with internet facility, Wi-Fi connectivity throughout the campus, library with OPAC and Digital library using IP Based Campus wide unlimited access, to enhance the teaching-learning process in ragging free environment.

Conduct of conferences and participation in International / national level symposia /workshops / seminars help us to keep pace with the latest development in science and technology, and impart organizational skills to students and faculty.

Student feedback helps to improve the teaching learning process.

Closed circuit television cameras (CCTV) have been installed at various points in the campus.

6.1.3 What is the involvement of the leadership in ensuring?

The policy statements and action plans for fulfillment of the stated mission

The management of the College has long term vision for both academics and administration. The authorities guide, initiate, persuade the faculty and staff to actively involve themselves in realizing the vision and mission of the College. In addition to this, Principal coordinates with outside agencies like AICTE,DTE, University authorities, UGC, and other government bodies to comply with necessary regulations. The Principal also follows an open door communication system and often allows the staff to come up with their constructive suggestions and grievances if any and address them. The faculty members are keen to work in tune with requirements and take active participation in undertaking and implementing various quality improvement plans and programmes. The policy statements and action plans are formulated after careful consideration of all by the management and in this connection time to time resolution are framed by the management.

- **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**

The action plans for operations are prepared under the supervision and guidance of the Principal and Heads of the Departments. Teaching Plans, time table arrangements, various committees are initiated into their defined roles in formulating and achieving the strategic plan. Various standard operating procedures have been developed and implemented for functioning of various activities.

- **Interaction with stakeholders**

The Management and the Principal interacts on regular basis with stakeholders during the staff meetings, Student Council meetings, parent teachers meetings and Alumni Association meetings.

Suggestions /opinion /guidance are seek from meeting of stakeholders and implemented for the all round development of students, faculties and institute.

- **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**

After consultation with stakeholders the institute has developed good quality infrastructure, state-of-the-art equipments, softwares, technologies for better understanding of students and developments in their technical abilities.

The College leadership undertakes to understand the needs of the society through its interactions with University, UGC and other academic authorities. It extends full support to all the new initiatives of these authorities. It also receives regular feedback of students, parents and local authorities to frame plans. The management fully supports any new plans for the benefits of its stakeholders.

College Records the opinions of the eminent people visiting the college Obtains Exit feedback from the students Invites the opinions and suggestions of experts from industry during their visit to college as members of Academic Committee (CAC), guests to deliver experts lectures

Institute also obtains the suggestions through Alumni Association. Information available in student feedback forms and information available in self-appraisal forms of teachers help the authorities plan proper support for the policies.

- **Reinforcing the culture of excellence**

We believe in striving for excellence which is an important part of professionalism in any job. It involves trying to put quality into everything you do, and this attitude tends to separate the achievers from others. The students are trained to take an initiative to act on opportunities, take responsibility, display a can do attitude, take ownership of problems.

- Organization of various student development activities. Entrepreneurship development.
- MoUs with Industries and Academia.
- Extra Curricular and Co-Curricular Clubs for student all round Development.

We succeed to achieve the excellence in culture by reinforcing following parameters.

- 1) Academic monitoring
- 2) Extra curricular and co-curricular activities
- 3) Ragging free environment
- 4) Pollution free environment
- 5) Equality to all religions
- 6) Healthy interaction among students and staff
- 7) Excellent infrastructure, meritorious and devoted staff

- **Champion organizational change**

Nuclei of research thinking are developed in the institute environment. Institute has opened various clubs like aeronautical engineering, marine engineering, cloud technology, android technology club, etc. Through entrepreneurship development cell various activities are carried out like institute has achieved one medium scale

project on equity fund scheme governed by State Bank of India. Intake has been increased significantly that results in notable infrastructural development.

The College pioneers in the field of changes in organizational set up by becoming an outward looking organization with focus on benchmarking against the best. . From being an organization of growth and progress in the academic field, it is looking towards a more active role in the society with encouragement to deserving and special students, focus on extra-curricular activity and emphasis on sharing of knowledge and learning through seminars, conferences at national and international level. The College is always open for change in policy and also helps other colleges in their quest for excellence.

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 Head of the institution holds meetings at regular intervals with the HODs regarding updating knowledge of students on modern trends which is based on curriculum laid down by the University.

Institute reviews facilities and works out plans for overall improvements by arranging lectures for students to help them to achieve academic excellence.

Disseminates information about job prospects through the placement cell. Preparation of academic calendar and prospectus of the college.

Institute has counseling cell for psychology of learning & instructions. Institute also has grievance redressal & reservation committees to address and solve the problems faced by students for healthy teaching learning environment.

Proper budget is allocated for each department keeping in mind the specific requirements by considering various events.

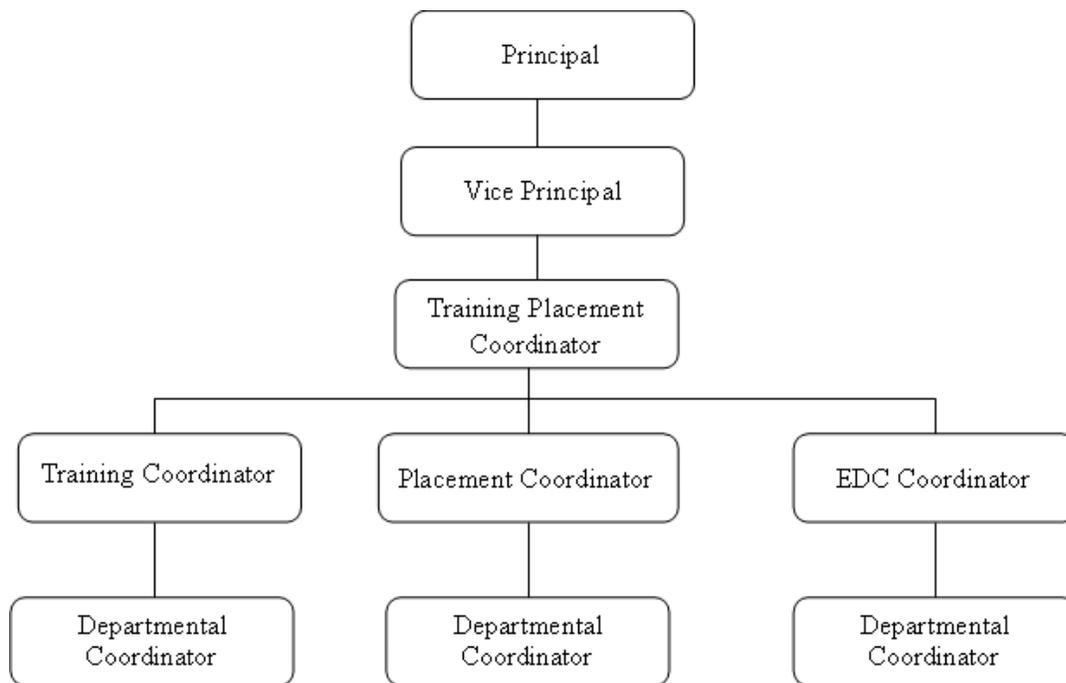
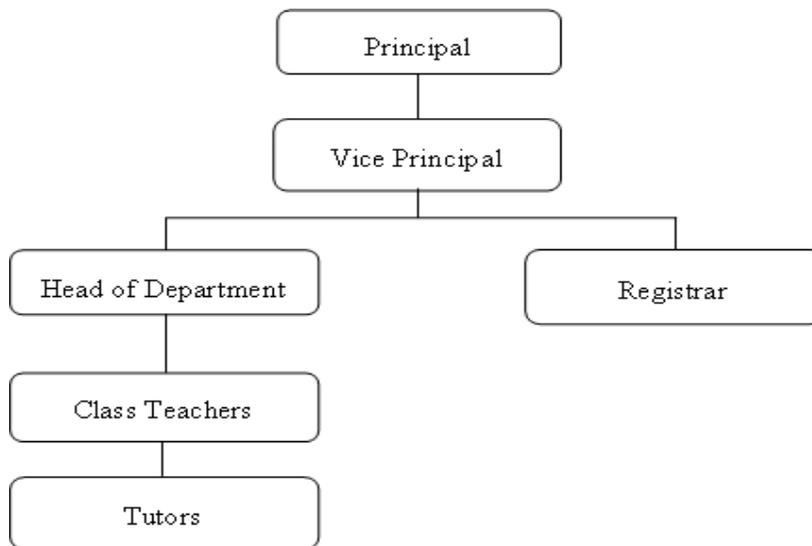
Takes appropriate administrative steps to ensure that available resources in the college are best utilized for the benefit of the students

- Teaching learning process is being monitored by number of theory classes and practical sessions conducted by the faculty.
- Students' attendance and internal marks are recorded. Corrective actions are taken whenever required by informing the parents, special classes etc
- Research contributions of the students and faculty are recorded and monitored. Faculty and students are sponsored and sent for presentations in national and international conferences, FDPs, workshops, seminars etc.
- Faculty and students are sponsored and sent for training programmes in industries. Students are sent for internships, implant training and industrial visits to other organizations. These are also recorded and improvised year after year.

- Students are encouraged to take up projects in industry during their last semester both at UG and as well PG level. This is done so that they get the feel of the industry and also they become aware of the industry scenario and its requirement so that they can upgrade themselves.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The management is very supportive towards academics and academic work in the College. This creates a healthy working atmosphere. The staff is given the authority and responsibility to complete the desired academic task in the best possible manner.



Sr. No.	Name of the committee	Faculty Coordinators
1	Academic Committee	Dr. J.C. Burse
2	Academic Calendar	Prof. P. S. Dhumal
3	ISTE Chapter	Prof. M.G. Unde
4	CSI Chapter	Prof. D.A. Vidhate
5	Institution of Engineers	Prof. D.A. Vidhate
6	Alumni Association	Prof. J. Jaykumar
7	Training & Placement Cell	Dr. K.B. Kale
8	Entrepreneurship Development Cell	Prof. A.R. Kachare
9	Industry-Institute Partnership Cell	Prof. P.A. Narawade
10	Women Empowerment Cell	Prof. Mrs. J.P. Botkar
11	National Service Scheme	Prof. R.G. Raut
12	Newsletter & College Magazine	Prof. A. V. Suryavanshi
13	Media Publication	Prof. G.M. Dahane
14	Library Coordinator	Prof. Ms. M.S. Gunjal

6.1.6 How does the college groom leadership at various levels?

Senior faculty members are identified and assigned the following duties to help Director/Principal in day to day functioning and maintaining the standards of education and training to students.

- i. Principal – Institute level administration
- ii. Vice Principal – Institute level administration & academics
- iii. Head of Departments – Department level administration & academics
- iv. Registrar- to help Principal in administrative matters
- v. Controller of Examinations- Examinations-Internal & External
- v. Deputy Registrar - Hostels, Mess and house keeping
- vi. Assistant Registrar – University, DTE, AICTE affiliation & approval.
- vii. Office Superintendent – General office coordination
- viii. Training and Placement officer- Training & Placements of students, correspondence and indentifying the companies for better placement of students.
- ix. Purchase Officer – Procurement of Equipment, Furniture as per college rules.
- x. Electrical Maintenance Incharge – to look after the maintenance of electrical work.
- xi. Civil Maintenance Incharge – to look after the maintenance of civil work.

- xii. Grievance Redressal Committee – to take the cases of grievances.
- xiii. Women Grievance Cell- to take action in cases of harassment of women.
- xiv. Reservation Cell- To help reserve category students in academic and nonacademic matters.
- xv. Anti Ragging Committee – To prevent on and off the campus
- xvi. Anti Ragging Squad - To prevent on and off the campus after college hours
- xvii. Entrepreneur Development Cell- To establish interaction with industries.

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?

Adequate systematized autonomy to all the departments and sections.

- Empowering head of the department to distribute work load to faculty, to sanction the leave of faculty, to prepare annual budget of the department, to appoint internal examiner, to run departmental students association, to organize various faculty and student empowerment programme teaching and nonteaching staff of the department.
- Recommendation for purchase of recurring and non recurring budget of the department and research proposal of the department.
- Committees and students associations with representatives from meritorious, average, below average levels and female students.
- Organization of several activities by student to enhance the capabilities of students under the advisory ship of faculty member.
- Head of Department to decide about the purchase of equipment to laboratories, and conduct of FDPs, STTPs, Seminars ,Workshops etc.,
- Empowering the faculty member in-charge of a laboratories to devise and implement the necessary plans for effective conduct of the laboratories and evaluation.

6.1.8 Does the college promote a culture of participative management? If yes, indicate the levels of participative management.

Yes, the Governing Body and Local Managing Committee of the institution include the Principal along with the senior faculty members.

In addition to that, the management is always open to discussion with the teaching and non-teaching staff which, in turn, encourages the involvement of the staff for the improvement of effectiveness and efficiency of the institutional process.

6.2 Strategy Development & Deployment

6.2.1 Does the institution have formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes, the quality policy statement is as below:

Padmashri Dr. Vithalrao Vikhe Patil College of Engineering is committed to create quality professionals by imparting excellent technical education & training leading to degree in engineering to meet the emerging industrial and social needs through,

- Innovative Ideas
- Effective teaching-learning
- Applied research
- Industrial Institute interaction
- Dealing with societal needs
- As the Centre of Excellence in Engineering and Technological Studies

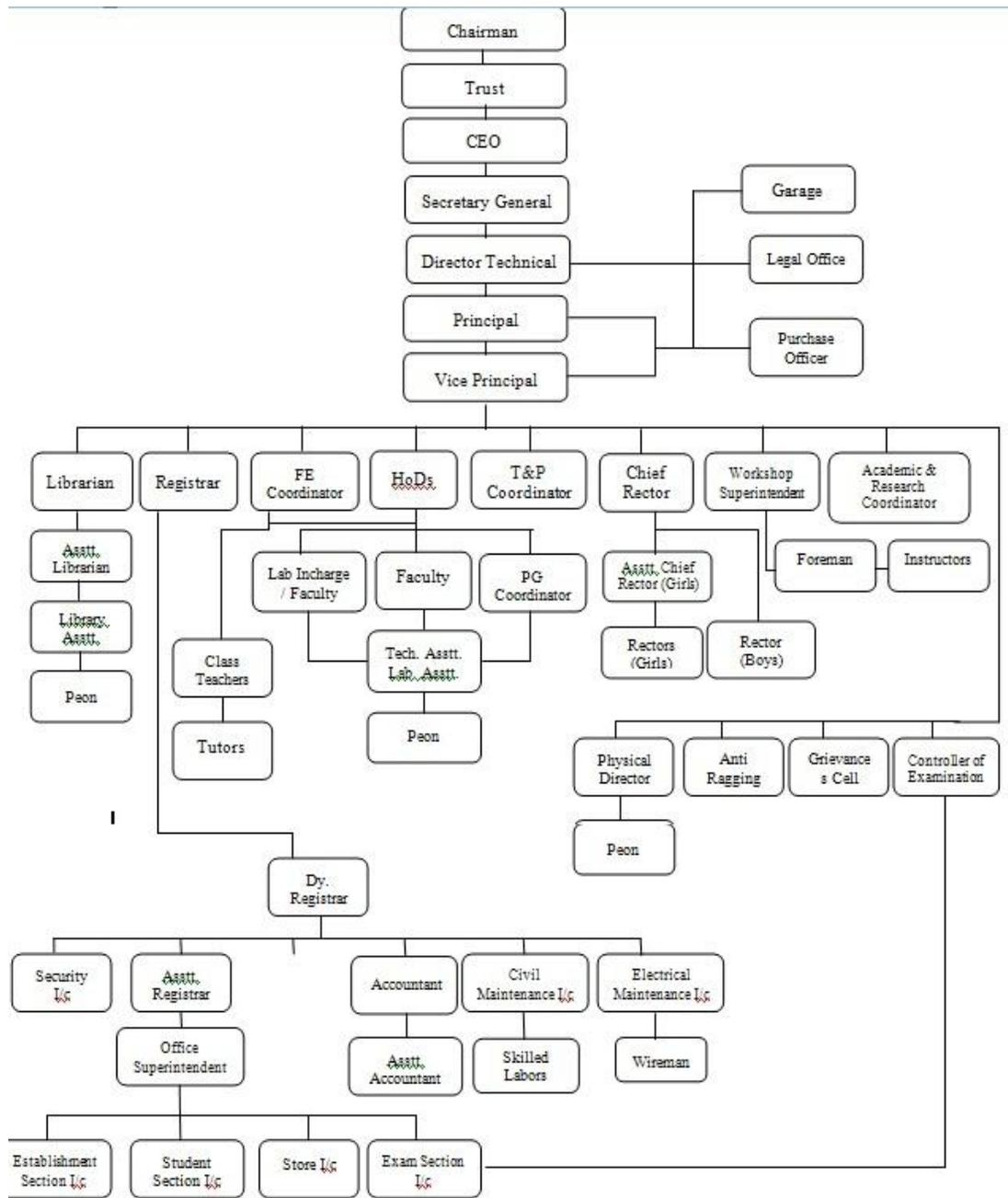
It has been formed after discussions with the top management, Principal, Heads of the departments and staff members in order to achieve the vision and mission of the Institute. The Institute undertakes various activities to fulfill the quality policies.

6.2.2 Does the institute have perspective plan for development? If so, give the aspect considered for the inclusion in the plan.

Yes, the Institute has a perspective plan for development. The institution takes effort in finding the key performance indicators for performance assessment and development. It addresses the issues from the stake holder's perspective and takes steps to fulfill their requirements. The Institute has following perspective plans:

1. Permanent affiliation by Savitribai Phule Pune University.
2. Approval as a Research Center by the affiliating University.
3. Collaboration with foreign universities.
4. Association with research laboratories & industries.

6.2.3 Describe the 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**

- **Teaching & Learning**

The Institute ensures effectiveness of the teaching-learning process by:

- Implementation of effective timetable considering University curriculum and giving weightage to some subjects by allocating extra hours of teaching.
- Proper conduction of theory and practical session and reviewed by academic committee
- Subject teacher prepares detail teaching plan that is strictly followed.
- Use of advanced teaching aids like OHP, PPT, Audio Video Lectures etc.
- During practical session care is taken such that every student gets chance to perform the practical and assessment is done continuously. During continuous assessment weightage is given to attendance, punctuality of checking, test performance, viva etc.
- A 20 student's batch - tutor system is implemented for development of repo between student and faculty. This leads to an environment where question answer session, interaction, development of personality is very much effective.
- Demo practical/oral sessions are arranged to get expertise in their areas.
- Institute promotes students for technical visits/seminars/workshops/paper presentation/participation in competitions by providing financial support.
- Recruitment of well qualified and experienced faculty as per AICTE norms.
- Subject allocation to the faculty before the commencement of the semester to help them prepare teaching plan and lesson notes.
- Review of the academic results of the previous year & result analysis is prepared.
- To bridge the curricular gap contents beyond the syllabus are taught by subject experts.
- Feedbacks are taken from students to assess the teaching skills of the faculty.
- Continuous assessment of student's performance through tests, assignments, seminars and projects.

➤ Faculties are promoted for professional development by providing support to undergo refresher courses, to enhance the qualification, to attend and organize National and International Seminars/workshops/conferences.

- **Web-based Learning:**

The Institute promotes students to gain knowledge from various websites by allowing Wi-Fi and wired internet facility of 32 Mbps beyond college hours also. Computer laboratories are made available to the students for web based learning. Wi-Fi facility is available at hostel premises also.

- **Learning with Multi-media:**

Availability of course material on intra-net

Digital library facility

Availability of video lectures

LCD projectors for presentation

- **Research & Development**

Research and development cell is one of the wings of the Institute which facilitates, channelizes, records, and regulates all the academic, sponsored, collaborative research projects and consultancy works in the Institute. The Institute is closely working with core industries to train the students in this direction. The key goal of the Institute is to provide a creative atmosphere in which higher studies and research thrive amongst the faculty and students. It also promotes and manages Institute-Industry interaction. The major role of this cell is in administrating research projects sponsored by various Government and non-Government, research funding agencies such as AICTE, SPPU (BCUD) etc., and promotion of collaborative research partnerships for undertaking creative and advanced research. Guidance to PG students and faculty pursuing their PhD's.

- **Community Engagement:**

The Institute actively participates in NSS. Students participate in the camps arranged by NSS for promoting community services. Every year NSS camp is conducted at nearby villages. Plane table survey of village, Energy Audit of the village, Computer literacy course, health consciousness & awareness programme etc are conducted by students as a part of NSS activities in these villages. Following are the NSS camp objectives:

11. To understand the community in which they work.
12. To understand themselves in relation to their community.
13. Identify the needs and problems of the community and involve them in problem solving process.
14. To develop among them a sense of social and civic responsibility.
15. To utilize their knowledge in finding practical solution to individual and community problems.

16. Develop competence required for group living and sharing of responsibilities.
17. Gain skills in mobilizing community participation.
18. Acquire leadership qualities and democratic attitude.
19. Develop capacity to meet emergencies and natural disasters.
20. Practice national integration and social harmony.

Apart from this; the Institute organizes blood donation camp every year on the occasion of birth anniversary of founder father Padmashri Dr. Vithalrao Vikhe Patil. Tree plantation is also done at various nearby localities on the occasion.

Sr. No.	Activity	Duration	Participants	Coordinator
CAY : 2014-2015				
1	NSS Special Camp	23/12/2014 to 30/12/2014	All NSS students (75 nos)	Prof. R.G. Raut Prof. A.A. Wankhede Prof. Ms. S.K. Awaje Prof. V.P. Patekar Prof. Ayensen Gypta Prof. P.K. Bhandari Prof. V.S. Khakal Prof. Ms. M.S. Chopde
2	Blood Donation Camp	12/01/2015	All NSS students (80 nos)	Prof. R.G. Raut Prof. A.A. Wankhede Prof. Ayensen Gypta Shri. Ram Patare
3	Tree Plantation	26/01/2015	All NSS students (40 nos)	Prof. R.G. Raut Prof. V.P. Patekar Prof. V.S. Khakal
CAY-1 : 2013-2014				
1	NSS Special Camp	10/01/2014 to 19/01/2014	All NSS students (75 nos)	Prof. R.G. Raut Prof. A.A. Wankhede Prof. Ms. R.B. Kandekar Prof. V.P. Patekar Prof. Ayensen Gypta Prof. P.K. Bhandari Prof. Bharat Pawar Prof. R.L. Khan Prof. Ms. A.R. Mane
2	Blood Donation Camp		All NSS students (65 nos)	Prof. R.G. Raut Prof. A.A. Wankhede Prof. Ayensen Gypta Shri. Ram Patare
3	Tree Plantation		All NSS students (40 nos)	Prof. R.G. Raut Prof. V.P. Patekar Prof. V.S. Khakal

- **Human Resource management:**

- The Institute takes care of its human resources.
- Employees are given utmost importance and their needs are well-recognized.
- Service rules are made transparent and the staff gets benefits such as Provident Fund, Gratuity, Group Insurance Scheme etc.
- The faculties and staff are entitled to other benefits like casual leave, maternity leave, medical leave, earned leave and vacation according to rules laid down in the statutes of SPPU.
- The Institute frequently arranges training programmes and also deposes the staff to other organizations for attending such programmes for acquiring balanced skills (technical skills, teaching skills, soft skills etc.).
- The Institute has a well-defined and effective selection procedure, systematic performance appraisal system and promotion policies.

- **Industry interaction**

The institution has an institute-industry interaction through the Training and Placement Cell. They promote industrial training for the students and for the faculty as well. Every academic year it is made sure that the students are taken for industrial visits. Both UG and PG students are motivated to undertake their final year project in the relevant industries of their domain, thus exposing and preparing them to meet the real time requirement of the industry. The Institute has signed MoUs with well-known industries such as *HAL*, *C-DAC*, Graceful Growth Consulting India Private Limited, Baker Gauges, Harbinger, Seed Technologies, IBM, Trident Technology, TI and Edgate technologies, ZF Steering India Pvt. Ltd., MEI (Mitsubishi Electric India Private Limited) to improve the interaction with industries and thereby providing better exposure to students and faculty members.

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 Governing Body (GB) & Local Managing Committee (LMC) are vital bodies under the constitution of the PDVVP Foundation. It meets periodically to take a review of the developments in the institutions. During the GB & LMC meetings, information is shared with other board members regarding developments in the institutions. Thus, information regarding developments in the Foundation's institutions finally reaches to the top management. Once the top management approves the information, it is circulated among other stakeholders, if necessary. The Principal imparts necessary information to the Heads of the departments in the periodical meetings.

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 always encourages faculty to involve themselves in ongoing institutional processes. Faculties are the Heads of various committees at college level. Management maintains communication with the staff and is open to their suggestions.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

A meeting of Governing Body of PDVVP College of Engineering, Ahmednagar was held on 01/11/2014 at 10.30 am in the board room of engineering college.

Following members were present for the meeting:

1. Hon'ble Namdar Shri. Radhakrishana Vikhe Patil – Chairman
2. Hon'ble Shri. Vasanttrao Shahurao Kapare
3. Hon'ble Shri. Uttamrao Sampatrao Kadam
4. Hon'ble Lt. Gen. (Retd.) Dr. B. Sadananda
5. Prof. Mrs. U.R. Kawade
6. Prof. P.A. Narawade
7. Dr. H.N. Kudal

Following points had put up before committee members -

- Closure of Course – Instrumentation & Control Engineering
- Detailed summary of various events and activities organized by all departments
- Start of ARC (Application Receipt Centre) of DTE Maharashtra at our engineering
- Welcome to First Year Engineering Students by Hon'ble Secretary General
- Successful organization of Parent Teacher Meet
- Grants of Rs. 2.0 lacs from SPPU, Pune, Rs. 0.60 lacs from SPPU, Pune and Rs. 0.60 lacs from SPPU, Pune received to the institute.

A meeting of Local Managing Committee of PDVVP College of Engineering, Ahmednagar was held on 01/11/2014 at 11.00 am in the board room of engineering college.

Following members were present for the meeting:

1. Hon'ble Namdar Shri. Radhakrishana Vikhe Patil – Chairman
2. Hon'ble Shri. Subhash Dattatraya Patil
3. Hon'ble Shri. Uttamrao Sampatrao Kadam
4. Hon'ble Lt. Gen. (Retd.) Dr. B. Sadananda
5. Prof. Mrs. U.R. Kawade
6. Prof. J. Jaykumar

7. Prof. P.A. Narawade
8. Shri. G.S. Bharadi
9. Dr. H.N. Kudal

Following points had put up before LMC members -

- Welcome of newly elected members in the LMC
- Closure of Course – Instrumentation & Control Engineering.
- Discussion on annual budget & change in college fees
- Detailed summary of various events and activities organized by all departments
- Welcome to First Year Engineering Students by Hon'ble Secretary General
- Successful organization of Parent Teacher Meet

A meeting of Governing Body of PDVVP College of Engineering, Ahmednagar was held on 31/01/2014 at 11.00 am in the board room of engineering college.

Following members were present for the meeting:

1. Hon'ble Namdar Shri. Radhakrishana Vikhe Patil – Chairman
2. Hon'ble Shri. Vasantao Shahurao Kapare
3. Hon'ble Shri. Uttamrao Sampatrao Kadam
4. Hon'ble Lt. Gen. (Retd.) Dr. B. Sadananda
5. Prof. Mrs. U.R. Kawade
6. Prof. P.A. Narawade
7. Dr. H.N. Kudal

Following points had put up before GB members -

- Prof. Mrs. U.R. Kawade has been appointed as Head of Department of Civil Engineering as Dr. T.K. Nagaraj, HOD Civil had left the institute.
- Information about LIC Visit under chairmanship of Dr. Sunil Kute has been given to the members.
- Appointment of Shri. A.R. Jondhale as Deputy Registrar and Dr. K.B. Kale as Professor in Mechanical Engineering department.
- It was unanimously approved by the committee that, Rs. 78750/- to be charged as fees for the year 2014-15 and Hostel fees increased from 18000/- to Rs.20000/-

A meeting of Local Managing Committee of PDVVP College of Engineering, Ahmednagar was held on 31/01/2014 at 11.30 am in the board room of engineering college.

Following members were present for the meeting:

1. Hon'ble Namdar Shri. Radhakrishana Vikhe Patil – Chairman
2. Hon'ble Shri. Subhash Dattatraya Patil
3. Hon'ble Shri. Uttamrao Sampatrao Kadam

4. Hon'ble Lt. Gen. (Retd.) Dr. B. Sadananda
5. Prof. Mrs. U.R. Kawade
6. Prof. J. Jaykumar
7. Prof. P.A. Narawade
8. Shri. G.S. Bharadi
9. Dr. H.N. Kudal

Following points had put up before LMC members -

- Dr. T.K. Nagaraj, HOD Civil handed over the charge of HOD Civil Engineering to Prof. Mrs. U.R. Kawade.
- Information about LIC Visit under chairmanship of Dr. Kute has been given to the members.

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

The Management is in favor of autonomy. However the institution has no immediate plans for obtaining autonomy.

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 Institute has following committees for hearing grievances/complaints from students, teaching and non-teaching staff.

- Anti-ragging Committee
- Anti-ragging Squad
- Women's Grievance Cell
- Grievance Redressal Cell
- Reservation Committee
- Student Council

Everybody in the institution is made aware of the existence of these committees. As and when the committee receives a complaint, they meet immediately, review and resolve the problems. They also ensure that necessary actions are taken. The complaint details are filed separately and kept confidential.

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?

Yes

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 institution collects feedback from students in every semester. Institutional performance for the improvement and development of academic standard as well as various types of facilities. Students provide their feedback on the following points:

Explanation of teacher, preparation of teacher, communication & speed of delivery, regularity in engaging the classes, class time management, attitude of the teacher towards students, class room control & discipline etc.

In addition to this, students evaluate their subject teachers using the specified questionnaire. This process is conducted at the department level. A faculty and one supporting staff of the department are assigned to this activity and the Heads of the Departments monitor the process. Heads of the departments go through the departmental feedback, analyze it and convey it to staff members. After discussion, decisions are taken for the improvement of institutional performance.

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?

For the development and enhancement of knowledge the following activities have been undertaken continuously.

- a. In house training programs for awareness of modern technology by conducting various workshop, seminar, faculty development programme etc.
- b. On job training for the newly adopted techniques and newly installed machineries.
- c. Induction training to the newly appointed faculties.
- d. Conducting the guest lectures on various recent topics.
- e. Allow to visit to high-tech industries / institutes / research laboratories / Govt. institutes to understand & adopt modern techniques.
- f. Making available the interdisciplinary audio visuals and well equipped laboratories to the staff and faculties.
- h. Inspiring the faculties to take membership of various re-known technical bodies / associations.
- i. Conducting the various programmes for the soft skill development.
- j. Non teaching staff are deputed to attend Personality development programme.
- k. Non teaching staffs are encouraged to improve their qualification and then they are promoted.

6.3.2 What are the strategies adopted by institute for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform.

- a. The continuous activities for the faculty empowerment have been performed by undertaking the teaching and learning programmes on various topics.
- b. Faculties have been deputed under summer school and winter school programmes.
- c. Sponsoring the faculties and staff members for attending the workshops, conferences at national & International level also financial assistance has been made available for the publications.
- d. Granting the paid leave to the faculties to attend the educational programmes at abroad.
- e. Granting the financial assistance to the faculties to attend the educational programmes at abroad.
- f. Making available the sponsorship to the faculties and staff members for higher education
- g. Faculties have been deputed for the workshops conducted in connection with the restructuring of syllabus.
- i. Institute deposes the faculties for paper setting & CAP meetings conducted at University level.

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 performance appraisal system has been run through the Annual Confidential Reports for both Teaching and non teaching staff.

Following aspects of the individual capabilities and qualities have been evaluated by Head of the department & Head of the institute.

A)

- a. Punctuality in work
- b. Ingenuity and initiative
- c. Verbal Expression
- d. Written expression
- e. Relation with superior
- f. Relation with colleagues.
- g. Loyalty to Institute

B)

- h. Professional Knowledge & its application.
- i. Instructional Abilities.
- j. Class Room planning control assignments, conducts of Practical in Labs
- k. Seminar attended / Project Guided Organized Research.
- l. Publications, Research Activity, Consultancy.
- m. Qualifications obtained during the assessment period.
- n. And other co-curricular activity.

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?

1. The increments are have been released on the basis of evaluation of annual appraisal reports.
2. If any adverse remark is observed or reported, the individual staff has been called and counseled by the Head of the Institute to improve the behavior / work performance.
3. For the outstanding performers special increments or promotions are recommended by the Head of the Institute after going through the performance appraisal report.
4. For the poor performers fair chance is given for the improvement and his/her promotion/increment is released after proper review by concern HoD and Head of Institution.

6.3.5 What are 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?

1. The employees have their own co-operative society that provides loan facilities and Accidental Insurance is made available.
2. H.R.A. and housing facility in the campus at subsidized rent is provided.
3. Play ground with fully equipped Gym is available.
4. Schooling facility in the campus
5. Concession in institute fees for the wards of faculty & staff is given.
6. Uniforms on subsidized rent have been provided to nonteaching staff.
7. Canteen and mess is also available.
8. Paid Maternity leave have been granted to the female employees.
9. Transportation facility for the employees coming from Loni, Kolhar & Rahuri area have been provided on subsidized rent.
10. Concessional medical treatment facilities in the campus are provided.
11. Group insurance for faculty is available.

6.3.6 What are measures taken by the Institution for attracting and retaining eminent faculty?

1. The eminent faculties are sent on deputation for attending educational programmes.
2. All such faculties have been given financial assistance and paid leave is granted.
3. To boost their morale and to retain such faculties the extra increments have been granted.
4. The aspirant of higher studies at abroad also is given financial assistance and sponsorship by the institute.
5. Special concession in fees given to the wards of such eminent faculties.

6.4 Financial management & Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

This is done through planning and control. For this the budget system is followed as under – a. Planning -

- Requirement of the human and non-human resources like laboratories etc as per the syllabus change, university change etc is prepared by the respective faculties/lab in charge and section in charges.
- Head of Department scrutinize & compiles the requirements received from the lab incharges and section incharges. Detailed departmental requirements for non-recurring and recurring expenditure for each financial year are submitted to the Principal.
- After scrutiny by the Principal, these are forwarded to the HO.
- The proposals are reviewed by Management in line with overall organizational goals, availability of funds, current academic and other environment etc. After their review the same is forwarded for approval by Executive Committee and Honorable Trustees
- Executive Committee and Honorable Trustees approve the budget after discussion and deliberations with the Management and College Principal and faculty members. Accordingly instructions are given for provisioning of finances to meet the gaps.
- **b. Control –**
- Actual expenditure is monitored through budget note which shows the actual expenditure vis-à-vis the budgeted amount for each head of expenditure.
- In case there are additional requirements over and above the budget, then inter-head transfers are permitted, that is, within the overall budget, additional expenditures are permitted.
- Periodic review is held by the Head Office in which a comparison between actual and budgeted expenditure is done. Amounts budgeted but not spent are reviewed and the reasons are analyzed.
- Efficiency in use of resources is ensured through proper negotiation with vendors and suppliers of services so that the purchases of goods and services are at the best rates.

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.

- The Organization has an Audit Committee. This Committee plans and controls audit activities including internal and statutory audit.
- Internal audit is carried on a regular basis and reports are submitted by the internal auditors on a periodic basis.

- These are complied by the college authorities and the report along with the compliance is reviewed by the HO.
- Statutory audit is done by an independent and eminent practicing Chartered Accountant.

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.

- Major source of institutional receipt is fees from the students.
- Deficit is sometimes faced due to uncertainty in reimbursement of scholarship by the Samajkalyan Department of the Government of Maharashtra. Delays in these reimbursements create working capital gaps.
- However, the college has a cash credit facility from Shamrao Vithal Cooperative Bank to take care of the delays in receipt of fees as stated earlier.
- As a result the college has never delayed even a single month's salary for the last 10 years.
- Apart from provision for working capital, term loans are arranged for major capital expenditure like the administrative college building.
- Adequate provision for developmental activities is created through the Development Fund at the College level.
- In addition the Corpus Fund at the Trust level augments the development initiatives.
- Details of last 4 years income and expenditure are as under –

Rs.
Lacs

	2014/15	2013/14	2012/13	2011/12
Income	1664.93	1429.59	1337.44	1340.87
Academic Expenses	1004.02	1135.57	1046.90	1075.47
Administrative Expenses	290.13	311.30	291.63	265.49

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Grants are secured from AICTE, BCUD – University of Pune.
 Details of grants secured during the last 4 years are as under –

PADMASHRI DR. VITHALRAO VIKHE PATIL COLLEGE OF ENGINEERING

DETAILS OF UNIVERSITY / DTE / AICTE GRANT

Year	Particular	Department	Seminar	International / National Conference	Equipment	Research & Project	In any Sports	Book Bank	Sponsorship	Participants Fee	NSS	Building Grant	Earn & Learn	Grand Total	Remark
2008-09	S.L.Kasar	Gymkhana					35000	180000	7500					222500	
	T.K.Nagraj	Civill		150000		75000			10000					235000	
	Shirke A.J	Civill				75000								75000	
		Mech			50000									50000	
		E & TC		298024		100000								398024	
	Prof. Pabale S D	Library									75800		125906	75800	
	Shri. Bangar B T												125906		
TOTAL			0	448024	50000	250000	35000	180000	17500	0	75800	0	125906	1182230	
2009-10	Sports	Gymkhana					60000	210000	117000	127700				514700	
	Conference	I T		125000					50000	80500				255500	
	BCUD			50000					5000	22400				77400	
	BCUD			100000		162347								262347	
	Cycle Stand						150000							150000	
	Instru	Instru		125000										125000	
Prof.Dawane M K	Library									43060			43060		
Shri. Bangar B T												160260	160260		
TOTAL			275000	125000	0	162347	210000	210000	172000	230600	43060	0	160260	1588267	
2010-11	Sports	Gymkhana					2000							2000	
	Tech.Paper						12600							12600	
	State Level			60000			1500							61500	
	Cycle Stand						150000							150000	
	QIP						13159							13159	
	QIP						20000							20000	
	QIP						33173							33173	
	Prof.Dawane M K	Library									125865			125865	
	Shri. Bangar B T												257230	257230	
	TOTAL			60000	0	0	0	282432	0	0	0	125865	0	257230	675527
2011-12	BSUD II Instalment	Electical				20043								20043	BCUD
	Equipment				48150									48150	University
	Innpvatio 2010			130000										130000	University
	State level Tech					60000								60000	University
	Quality Equip.Softwaer				73920									73920	University
	Expert Lecturer		30600											30600	University
	Prof.Pote S S	I T									59400			59400	
	Shri. Bangar B T	Library											327870	327870	
	Deokule P A					200000								200000	
	J Jaykumar					200000								200000	
	S M Magar					120000								120000	
R R Navthar					200000								200000		
K R Ghadge					200000								200000		
TOTAL			30600	130000	122070	1000043	0	0	0	0	59400	0	327870	1669983	
2012-13	Prof.Deokule	Mech				1200000								1200000	AICTE
	Prof. J.Jaykumar	Mech			1050000									1050000	AICTE
	Prof. J.Jaykumar					20218								20218	BCUD
	Prof.Pote S S	I T									129546			129546	
	Shri. Bangar B T	Library											279550	279550	
TOTAL			0	0	2250000	20218	0	0	0	0	129546	0	279550	2679314	
2013-14	Prof. Nagraj	Civill	103220											103220	AICTE
	Prof. Nagraj	Civill	100000											100000	AICTE
	Prof.H.N.Kudal .			135095	115000									250095	BCUD
	Dr. S J.Halhor				95000									95000	
	Prof. U R Kawade				50000									50000	
	Student Welfare (Personal Development)		10000											10000	University
	Prof.Raut	I T									44550			44550	
	Shri. Bangar B T	Library											423135	423135	
TOTAL			213220	135095	260000	0	0	0	0	0	44550	0	423135	1076000	
2014-15	Prof.J.Jaykumar	Mech				17980								17980	AICTE
	Seminar	Civill	100000											100000	
	Prof.Raut	I T									75750			75750	
	Shri. Bangar B T	Library											212000	212000	
	Shri. Bangar B T	Xerox M/c			100000									100000	BCUD
	AJ Shirke	Canteen Bldg.										500000		500000	
	N.M.Deshpande	E & TC	25988												
	V R Kulkaarni	Civill	32351												
	Kalvade P G	Mech	129266												
	Prof.H.N.Kudal .				115000										
Dr. S J.Halhor				95000											
Prof. U R Kawade				50000											
TOTAL			287605	0	360000	17980	0	0	0	0	75750	500000	212000	1005730	
GRAND TOTAL			866425	838119	3042070	1450588	477432	390000	189500	230600	553971	500000	1785951	9877051	

These grants are utilized for procuring equipments, organization of workshops and seminars etc.

6.5 Internal Quality Assurance System

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?

Yes, The Internal Quality Assurance Cell (IQAC) is formed with name Academic Committee constituting the following members, and looked after by the Principal.

Sr. No.	Name of committee member	Designation	Status
1	Dr. J.C. Burse	Prof. Mech. Engg	Academic Coordinator
2	Dr. K.B. Kale	Prof. Mech. Engg	Member
3	Dr. S.J. Halnor	Asst. Prof. Chemistry	Member
4	Prof. M.P. Wagh	Asst. Prof. Civil Engg.	Member
5	Prof. A.A. Mancharkar	Asst. Prof. Physics	Member

Academic committee action plan is as under as per the office order:

1. The committee should conduct the meeting with all staff of each department teaching and non teaching separately in absence of students and of students in absence of staff separately, twice in the semester.
2. The committee should discuss the following issues a.) Regularity in theory and practical classes b.) Difficulties of staff/students c.) Maintenance of Laboratory equipments, co-operation of staff/students etc.
3. The committee should prepare feedback department wise.
4. They should surprise check that those students who are absent it is reported to HOD/parents or not, classes are conducted effectively or not, etc.
5. The committee should monitor theory/practical classes, evaluation of projects/seminars, continuous assessments, etc.
6. The committee should submit its report fortnightly to the undersigned.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

Following decisions were approved by management and majority of them were implemented towards the imparting quality technical education.

1. The committee had conducted the meeting with all staff of each department teaching and non teaching separately in absence of students and of students in absence of staff separately, twice in the semester.
2. The committee had discuss the various issues with students and staffs like
 - a) Regularity in theory and practical classes
 - b) Difficulties of staff/students
 - c) Maintenance of Laboratory equipments, cooperation of staff/students etc.
3. The committee prepared department wise feedback report.
4. Academic Committee checked that those students who are absent it were reported to HOD/parents or not, classes are conducted effectively or not, etc.
5. The committee monitored theory/practical classes, evaluation of projects/seminars, continuous assessments.
6. The committee has submitted its report fortnightly to the Principal.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them:-

No. The Internal Quality Assurance Cell i.e. Academic Committee was established for taking quality initiatives, quality sustenance and quality improvement measures in the college. The cell consists of total 05 members. All members are internal members and no external member is included.

The external members are representatives of various stakeholders like Alumni, Parents, Industry, Society etc. The composition of the IQAC is given below.

Sr. No.	Name of committee member	Designation	Status
1	Dr. J.C. Burse	Prof.Mech.Engg	Internal
2	Dr. K.B. Kale	Prof.Mech.Engg	Internal
3	Dr. S.J. Halnor	Asst.Prof.Chemistry	Internal
4	Prof. M.P. Wagh	Asst.Prof.Civil Engg.	Internal
5	Prof. A.A. Mancharkar	Asst.Prof.Physics	Internal

These members participate regularly in the meetings and provide expert guidance for quality enhancement. These members they actively participate and advise regarding the measures to be taken for ensuring quality in technical education as and when required.

d. How do students of alumni contribute to the effective functioning of the IQAC?

Yes, the College has registered Alumni Association. Alumni are pillars of the institution. They participate in the development of the quality of education and placements. The PDVVP-Alumni Association was formed in the year 2009. The Alumni Association is very active and closely associated with the College.

i. List of Current Office Bearers:

The list of Alumni Association office bearers are as follows:

Sr. No.	Name	Designation
1	Dr. H.H. Kudal	President
2	Prof. J.Jaykumar	Vice President
3	Prof. A.R. Kachare	Secretary
4	Prof. S.M. Magar	Joint Secretary
5	Dr. K.B. Kale	Member
6	Prof. M.G. Unde	Member
7	Prof. Mrs. U.R. Kawade	Member
8	Prof. Mrs. S.S. Magar	Member
9	Prof. A.R. Laware	Member
10	Prof. D.A. Vidhate	Member
11	Prof. S.S. Mandhare	Member

ii. Contribution of Alumni Association:

Following is the List of activities of Alumni Association.

- The association extends support in organizing 'Alumni Meet' once in two years which gives an opportunity to alumni to interact with faculty, students and other alumni.
- The college involves alumni in various academic, co-curricular, extra-curricular and extension activities for the benefit of students.
- Alumni also supports in research and placement.
- The association also maintains database of alumni and updates it on regular basis.
- The College obtains feedback from the alumni and gives opportunity for alumni to participate in the quality improvement.

iii. Details of the Top Ten Alumni occupying Prominent Positions:

Name of the Alumni	Name of the Company	Designation
Dr. R.S. Deshpande	Chhatrapati CoE Nepti, Ahmednagar	Principal
Dr. N.V. Kale	DRDO Bangalore	Scientist F
Kamod Kharade (Civil)	Acoustics and Sound Engineering Ltd. Mumbai	CEO <u>(President Award Winner)</u>
Omkar Kalwade (Civil)	CE-N systems Pvt. Ltd	Structural Engineer
Konrick Fernandez (Mechanical)	BOSCH Ltd. Nashik	Asstt. Manager
S.S. Sangale (Mechanical)	Tata Motors, Pune	Manager
Vishal Waghmare (Electrical)	<u>L&T Ahmednagar</u>	<u>Asst. Manager R&D</u>
<u>Sunny Virmani (Instru)</u>	<u>Philips Healthcare USA</u>	<u>Research Scientist</u>
<u>Sandip Thube (IT)</u>	<u>IBM Pune</u>	<u>R&D Head</u>
<u>Revati Bordawekar</u>	<u>KPIT USA</u>	<u>HR Manager</u>

e. How does the IQAC communicate and engage staff from different constituents of the colleges?

Academic committee communicates with faculty and students through Heads of the Departments. All the Heads are members of academic committee. Committee conducts meetings at regular intervals for planning, direction and control. This information is communicated by the Heads of the Departments to the faculty and staff members. This helps improve a number of activities of different departments through motivational and suggestive measures.

6.5.2 Does the institution have an integrated framework for quality assurance of the academic and administrative activities? If yes, give details enumerating its impact.

The college is quality conscious and strives hard to initiate, sustain and enhance the quality. The college has developed various mechanisms for quality assurance within the existing academic and administrative system.

These are as follows:

- 1) Standardized Processes
- 2) Academic Committee
- 3) Feedback from Stake Holders
- 4) Suggestion Box

5) Committees

1) Standardized Processes:

The college has developed standardized processes for academic and administrative work. These processes are followed to ensure quality assurance.

2) Internal Quality Assurance Cell (IQAC) Academic Committee:

The college has established Internal Quality Assurance Cell (IQAC) i.e. academic committee. It is responsible for:

- Quality Initiatives
- Quality Sustenance
- Quality Enhancement

3) Feedback from Stake Holders

The college obtains feedback from the stakeholders. This feedback is used in quality enhancement. Various feedbacks taken by college are:

- a) Feedback from Students about Curriculum and Faculty
- b) Feedback from Alumni
- c) Feedback from Academic Peers
- d) Feedback from Employers/ Industry
- e) Feedback from Parents

4) Suggestion Box:

The suggestion box is maintained by the college. The students are free to give suggestions related to curriculum, teaching learning process, administration, library, placements etc. the suggestion box is checked by Registrar. If any suitable suggestion is found, the Principal takes a decision on the same for improving the quality of the system.

5) Various Committees:

The College has set up various committees for ensuring smooth functioning.

- a) **Anti Ragging Committee:** The College follows zero tolerance policy towards ragging. So the College has established Anti – Ragging Committee as per the directive of the Government and the University. This committee handles issues regarding the same.
- b) **Hostel Committee:** The College has established Hostel Committee for the smooth functioning of the Hostels. This committee handles issues regarding the same and improves the quality of services.
- c) **Women’s Grievance Cell:** The Women’s Grievance Cell of the College handles grievances of the students and staff. The Cell also suggests the corrective actions. The decisions are implemented with permission of the management.

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.

- Training to faculty is organized to enhance the academic and administrative rules and regulations and the quality assurance procedures.
- Institute encourages & sponsors faculty in participating various workshops, conferences, seminars etc organized by reputed institutes.

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?

Academic audit is a regular feature in the college for continuous monitoring of the students performance. The college regularly monitors the performance through:

- Monthly student's attendance
- Principal sign on attendance register
- Class Test Marks
- Student feedback
- Parent teachers meeting
- Continuous assessment sheet for evaluation of Term Work marks
- Mentoring system

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The internal quality assurance mechanisms are framed in accordance as per the requirements of following external agencies and to comply with their requirements of quality management systems.

Organization	Purpose
Centre for affiliation, Savitribai Phule Pune University	Affiliation
AICTE (Regulatory Authority)	Approvals
National Board of Accreditation, New Delhi (NBA)	Accreditation
Directorate of Technical Education (DTE)	Recognition
Government of Maharashtra	Recognition

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?**

1. Teaching and Learning plan is strictly followed and PEO`s are attended.
2. Remedial classes are arranged for weaker students.
3. Review of seminar and projects progress are carried out for TE & BE students by each department with appointed guide`s.
4. Monthly students` attendance is reviewed by the HoD with the final assessment by Principal on faculty attendance record book.
5. Internal Test are conducted in between semester to review teaching and learning process.
6. Faculty feedback report is taken once in the semester.
7. Students and staffs are encouraged to participate in various university level, national & international level events like paper presentations, workshops, courses.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The college communicates its quality assurance policies, mechanisms and outcomes to the stakeholders through various ways.

- a) It is published in the prospectus and brochure of the college.
- b) It is displayed in the Institute on the notice board all over the campus.
- c) It is communicated to the stakeholders through the website of the college.
- d) It is published in the newsletter of the college.
- e) It is communicated to students in the orientation programme conducted in the beginning of the academic year.
- f) The Principal gives his address to students and staff on occasion`s celebration of Annual Day, Alumni Meet etc. elaborates the quality assurance mechanisms.

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment consciousness

The institute follows the Environment consciousness as it is helpful for sustainable development.

7.1.1 Does the institute conduct a green audit of its campus and facilities?

No, institute doesnot conduct green audit of the campus and facilities.

7.1.2 What are the institutive taken by the college to make the campus eco friendly?

a. Energy conservation

Campus is already in natural environment. Energy conservation is done through following means

1. Air Conditioners (ACs) are used at only essential places
2. Classrooms and laboratories are provided with natural ventilations and lightening
3. Electrical department of this institute has installed capacitor to improve power factor from 0.73 to 0.99 which helps to reduce the energy consumption.
4. Staff and students are advised to switch off lights/fans when not required.
5. Slogans like “Energy saved is energy generated” displayed at prominent locations.

b. Use of renewable energy

Today renewable energy has become crucial and essential factor. In order to remove the problems due to conventional energy source our institute is going towards renewable energy by adopting following means

1. PV solar system installed for computer server rooms.
2. Solar street lightening in front of hostel.
3. Solar water heater systems in hostels.

c. Water Harvesting

Most of the area of our institute is having pervious layer so it contribute to increase ground water level. Waste water is reused for the plants and gardern after treatment.

d. Check dam construction

Yes. Check dams are constructed at various places in the campus.

e. Efforts for carbon neutrality

Sufficient trees & greenery is preserved in the campus that helps to redue the effect of carbon in the environment.

To control pollution all the faculties and students are informed to check their vehicles to reduce carbon emission.

f. Plantation

1. Trees are planted in the campus every year
2. In our campus, nearly 250 trees, lawns and approximately 150 bushes are available

g. Hazardous waste management

No, there is no Hazardous waste material in this institute

h. E-waste management

Proper procedure is followed for write off the scrap electronic material.

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.

Many innovations are introduced by the college to have great and positive impact for the functioning of college.

Following are the innovations

- The Institute got accredited since 2011 by National Board Of Accreditation (NBA)
- College infrastructure is very good since the establishment of college.
- The institute is having student counseling cell through which student problem related to technical as well as personal were identified and corrective measures are taken.
- Every year alumni meet is conducted which is helpful for placement of students.
- The institute is having women's grievance cell through which problem of women are identified and solved.
- The institute formed tutor system for students.
- MOUs are signed with L& T, Rahuri Krishi Vidyapeeth for academic as well as research interaction.
- Up gradation of laboratories, faculty development programme, publication, training programme, English fluency programme, conduction of various workshops/seminar, National/International conferences are the important practices to increase the quality of education.
- Regular organization of guest lecturers from academics, Industries etc.
- Faculty as well as students feedbacks are collected periodically by academic monitoring committee.
- The institute has separate building for administration and canteen.
- The institute follows academic calendar map to have lesson planning more effectively.
- All the departments of the institute are provided with LCD Projector.
- Encouragement for faculty research by supporting the paper presentation in peer reviewed journal.
- Encouragement for students to present their innovative ideas in various technical competitions/exhibitions like TechFest, PROfest, Dipex etc.
- Arrangement of recreational tours beyond the campus life which are helpful to student for their study.
- In order to develop student beyond curriculum students are getting opportunity by interacting with leaders, various renowned personalities from various fields at annual cultural functions.
- The institute also takes efforts for the students with rural background by arranging sessions on English Communication Skill in Language lab.
- Arrangement of soft skill development programme, personality development programme.

7.3 Best Practices

Academic Monitoring system

Improve the quality education with the help of regular, in time teaching and learning process in depth with the help of following parameters

1. Teaching aids
2. Individual attention for the students by the respective teachers
3. Depth of teaching and understanding for the student with the help of technical discussion
4. Discussion with the help of reference books and magazines related with syllabus framed by the university
5. Case studies for the technology, if possible continuous visits to industries and sites to open the subjects and creates the interest in the subject as the students are weak in the academics and they cannot imagine theoretical concepts, presented the books by the respective author.

Usual practices

1. Surprise visit in the classes (theory and practical).
2. Conducting the meetings with students of all departments and discussing their difficulties.
3. Conducting the meeting of all faculties in order to motivate and realize their responsibilities in the academic point of view.
4. Teaching presentations and understanding of the subject, raised by the students, handled by the committee and necessary action taken immediately through head of the department and head of the institute.
5. Review of attendance of students in the class is taken frequently.

Evidence and Success

1. Attendance of the subject is improved.
2. Discipline is improved.

Tutor system

The object of the tutor system is to improve the attendance of the students, to be familiar with the students. The effect of the tutor system is that overall attendance and performance is improved remarkably.

1. **Name of the department: DEPARTMENT OF CIVIL ENGINEERING**
2. **Year of Establishment: 1983**
3. **Names of Programmes / Courses offered:**

SR.NO	NAMES OF PROGRAMMES / COURSES	UG/PG
01	Bachelor in Civil Engineering	UG
02	Masters in Civil (Structural) Engineering	PG

4. **Names of Interdisciplinary courses and the departments/units involved : NIL**
5. **Annual/ semester /choice based credit system (programme wise):**

CIVIL ENGINEERING

SR NO	PROGRAMME	SYSTEM TYPE
01	Second Year Engineering.	Semester
02	Third Year Engineering	Semester
03	Fourth Year Engineering	Semester
04	M.E. Structure Engineering	Credit

6. **Participation of the department in the courses offered by other departments : NIL**
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**

Post	Sanctioned	Filled
Professors	04	Nil
Associate Professors	08	01
Asst. Professors	23	21

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. /PG, etc.,)

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience (Till March 2015)	No. of Ph.D./ PG Students Guided/Guiding for the last 4 years
01	Prof.U.R.Kawade	Phd Pursuing	Associate Professor	Structural Engineering	13.4	30
02	Dr. A.J.Shirke	Phd. Geology	Assistant Professor	Geology	21.8	Nil
03	Prof.M.P.Wagh	Phd Pursuing	Assistant Professor	Environmental Engineering	12.6	Nil
04	Prof.V.R.Kulkarni	ME Environment	Assistant Professor	Environmental Engineering	19.7	Nil
05	Prof.N.A.Patil	Phd Pursuing	Assistant Professor	Construction Management	13.5	Nil
06	Prof.S.N.Daule	ME Structures	Assistant Professor	Structural Engineering	09.2	Nil
07	Prof.P.B.Autade	Phd Pursuing	Assistant Professor	Structural Engineering	08.4	20
08	Prof.M.V.Gunjal	ME Environment	Assistant Professor	Environmental Engineering	05.5	Nil
09	Prof.A.A.Sengupta	ME Structures	Assistant Professor	Structural Engineering	06.0	Nil
10	Prof.P.K.Bhandari	ME Structures	Assistant Professor	Structural Engineering	06.8	Nil
11	Prof.A.A. Waghmare	ME Structures	Assistant Professor	Structural Engineering	04.7	Nil
12	Prof.A.R. Take	ME Structures Pursuing	Assistant Professor	Structural Engineering	03.2	Nil
13	Prof.P.A. Salunkhe	ME Structures	Assistant Professor	Structural Engineering	02.5	Nil
14	Prof.V.A. Yeole	ME Structures Pursuing	Assistant Professor	Structural Engineering	02.3	Nil
15	Prof.A.H. Shirke	ME Structures Pursuing	Assistant Professor	Structural Engineering	04.9	Nil
16	Prof.D.S. Pathare	ME Structures Pursuing	Assistant Professor	Structural Engineering	01.8	Nil
17	Prof.S.L.Asava	ME Environment Pursuing	Assistant Professor	Environmental Engineering	01.6	Nil
18	Prof.N.M. Mulik	ME Environment	Assistant Professor	Environmental Engineering	04.9	Nil
19	Prof.A.H.Jamale	ME Structures Pursuing	Assistant Professor	Structural Engineering	05.7	Nil

20	Prof.P.A. Chavan	ME Structures	Assistant Professor	Structural Engineering	04.3	Nil
21	Prof.B.D. Kanawade	ME Structures	Assistant Professor	Structural Engineering	02.2	Nil
22	Prof. N.R. Bhosale	ME Structures	Assistant Professor	Structural Engineering	4.0	Nil

11. List of senior visiting faculty: 04

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary/adhoc faculty

Academic Year	Percentage
2011-12	35%
2012-13	39%
2013-14	44%
2014-15	59%

13. Student -Teacher Ratio (programme wise):

	Academic Year			
	2011-12	2012-13	2013-14	2014-15
Student-Teacher Ratio for UG	12.86:1	13.33:1	18.75:1	18.95:1
Student-Teacher Ratio for PG	30:1	15:1	13:1	16:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled : 04

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Sr. No.	Name of Faculty	Qualification
01	Prof.U.R.Kawade	ME Structures, Phd Pursuing
02	Dr.Prof. A.J.Shirke	Phd. Geology
03	Prof.M.P.Wagh	ME Environment, Phd Pursuing
04	Prof.V.R.Kulkarni	ME Environment, Phd Pursuing
05	Prof.N.A.Patil	M.Tech Construction Mgt,Phd Pursuing
06	Prof.S.N.Daule	ME Structures
07	Prof.P.B.Autade	ME Structures, Phd Pursuing
08	Prof.M.V.Gunjil	ME Environment

09	Prof.A.A.Sengupta	ME Structures
10	Prof.P.K.Bhandari	ME Structures
11	Prof.A.A. Waghmare	ME Structures
12	Prof.A.R. Take	ME Structures Pursuing
13	Prof.P.A. Salunkhe	ME Structures
14	Prof.V.A. Yeole	ME Structures Pursuing
15	Prof.A.H. Shirke	ME Structures
16	Prof.D.S. Pathare	ME Structures Pursuing
17	Prof.S.L.Asava	ME Environment Pursuing
18	Prof.N.M. Mulik	ME Environment
19	Prof.A.H.Jamale	ME Structures Pursuing
20	Prof. P.A. Chavan	ME Structures
21	Prof. B.D. Kanawade	ME Structures
22	Prof. N.R. Bhosale	ME Structures

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received
NO

17. Departmental projects funded by DST - FIST; UGC, AICTE, UNIVERSITY, DBT, ICSSR, Foundation, Institute etc. and total grants received

AICTE sanctioned funds

Scheme	Name of the coordinator	Amount Sanctioned	Details of sanction letter	Status of funds utilization
BCUD	Dr. A. J. Shirke	1.5 lac	Morphotectonic Studies of the tertiary Sediment from central part of west coast Dist. Ratnagiri, Maharashtra (2007-09)	100% utilized
BCUD	U. R. Kawade	1 lac	Effect of infusion of steel fibres on properties of geopolymer concrete composites (2013-15)	21.5% utilized
BCUD	Dr. A. J. Shirke	1.5 lac	Lanslide hazard zonation and mapping central part of west coast Maharashtra Dist. Ratnagiri by using Remote sensing & GIS	Ongoing work

18. Research Centre /facility recognized by the University NO

19. Publications:
Publications of faculty

Sr. No.	Faculty	No. of Publications			
		Conference		Journal	
		National	International	National	International
1	U. R. Kawade	2	--	--	2
2	A. J. Shirke	--	4	--	2
3	V. R. Kulkarni	1	--	--	--
4	M. P. Wagh	4	--	--	--
5	N. A. Patil	--	--	--	--
6	S. N. Daule	--	--	--	--
7	P. B. Autade	--	--	--	01
8	M. V. Gunjal	1	--	--	--
9	A. A. Sengupta	2	--	--	--
10	P. K. Bhandari	4	--	--	--
11	A. A. waghmare	2	--	--	--
12	A. R. Take	--	1	--	--
13	P. A. Salunkhe	1	--	--	--
14	A. H. Shirke	--	--	01	01
15	D. S. Patare	--	--	--	--
16	S. L. Asawa	--	--	--	--
17	N. M. Mulik	--	--	--	1
18	V. A. Yeole	--	--	--	--
19	A. H. Jamale	--	--	--	--
20	P. A. Chavan	--	--	--	1
21	B. A. Kanawade	--	--	--	2
22	Prof. N.R. Bhosale	--	1	--	--

20. Areas of consultancy and income generated

Name of Laboratory	Year	Consultancy Details	
		Duration/ Span	Revenue Generated
Testing of Materials Lab	2011	1 st Jan to 31 st March	4,400
		1 st April to 30 th June	6,200
		1 st July to 30 th Sept	4,150
		1 st Oct to 31 st Dec	64,170
			Total = 78,920
	2012	1 st Jan to 31 st March	28,350
		1 st April to 30 th June	51,300
		1 st July to 30 th Sept	44,500
		1 st Oct to 31 st Dec	2720
			Total = 1,27,100
	2013	1 st Jan to 31 st March	33,250
		1 st April to 30 th June	65,000
		1 st July to 30 th Sept	68,500
		1 st Oct to 31 st Dec	4,400
			Total = 1,71,150
	2014	1 st Jan to 31 st March	20,250
1 st April to 30 th June		23,000	

		1 st July to 30 th Sept	42,550
		1 st Oct to 31 st Dec	1,01,400
			Total = 1,66,500
	2015	1 st Jan to 31 st March	20,250
Through RCC proofing check of Building & ESR, GSR and Jack well	2011	--	--
	2012	--	--
	2013	--	1900
	2014	--	9250
Environmental Engg. Lab	2011	--	20,847
	2012	--	13,000
	2013	--	6,000
	2014	--	5,000

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

- Memberships of different faculties (Such as institute of Engineers, Hydrological society of india, Structural society of india, etc)

Sr. No.	Faculty	Professional Membership
1	Prof. Mrs. U. R. Kawade	AMIE, ISSE, ISTE
2	Dr. A. J. Shirke	MISTE, GSI, AIE, ISRMIT
3	Prof. V. R. Kulkarni	MISTE
4	Prof. M. P. Wagh	AMIE, HDUG, LMISTE, ISRMTT, IAHS
5	Prof. N. A. Patil	MISTE
6	Prof. S. N. Daule	AIE
7	Prof. P. B. Autade	ISTE, AMIE, ISSE
8	Prof. N. M. mulik	AIE

**AMIE- Associate Member of Institute of Engineers

**ISSE-Indian Society for structural Engineers

**LMISTE-Life Member of Indian Society of Technical Education

**ISRMTT-Indian Society for Rock mechanics & Tunneling Technology

**HDUG-Hydrological Data User Group

**IAHS- International Association of Hydrological Science

**MISTE- Member of Indian Society of Technical Education

**GSI- Geological Society of India

**IE-Member of Institute of Engineers

** ISRMTT- Indian Society for Rock Mechanics & Tunneling Technology

22. Student projects

a) Percentage of students who have done in-house projects including inter

departmental/programme

6%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

1%

23. Awards / Recognitions received by faculty and students

2011-2012	2012-2013	2013-2014	2014-2015
--	01	--	--

24. List of eminent academicians and scientists / visitors to the department

Sr.No.	Name of Visitor	Address	Date
2010-11			
1.	Ajit Radhakrishnan	Ultrtech cement Ltd Pune	07/03/11
2011-12			
2.	Kamod kharade	Gulmohar road ahemdnagar	21/08/11
3.	Dr.Anilraj jagdale	Institute of science Kolhapur	14/09/11
4.	Shrikant joshi	Gulmohar road ahemdnagar	15/09/11
5.	Kamod kharade	Gulmohar road ahemdnagar	15/09/11
6.	K.Nagraj	College of military engg	11/10/11
2012-13			
7.	S.R.Gavahne	Central railway ahemdnagar	30/07/12
8.	Dr.A.A.Sayyad	S.R.E.S COE Kopergaon	31/07/12
9.	Dr.S.R.Mise	P.D.A COE Gulberga	06/09/12
10.	V.B.Paithankar	Central railway ahemdnagar	15/09/12
11.	Annapurni ayyer	Meccafferri Indial LTD Mumbai	21/02/13
12.	Dr.S.S.Bhosale	College of Engg Pune	21/02/13
13.	Auderj Bergman	Han.corp Env & Safety Hoganas sweden	22/02/13
14.	G.H.Shivkumar Babu	I.I.S.Banglore	22/02/13
15.	Dr.H.N.Ramesh	U.V.C.E.Banglore	22/02/13
2013-2014			
16.	Dr.K.A.Patil	Government COE Aurangabad	11/02/14
17.	Dr.M.S.Dixit	M.I.T.COE Aurangabad	11/02/14
18.	Dr.K.B.Ladhane	P.R.E.C LONI	12/02/14
19.	Dr.S.S.Bhosale	College of Engg Pune	12/02/14
20.	B.Muralidhar SRO	CWPRS Khadakwasla Pune	12/02/14
21.	Dr.Jalindar .Patil	D.Y.Patil COE Pune	13/02/14
22.	Deepak Kulkarni	Monarch Survey Engineering Pvt Ltd.	13/02/14
23.	S.S.Jain	SCOE Vadgaon Pune	14/02/14
24.	Ramesh Kulkarni	Soiltech India Pvt Ltd. Pune	14/02/14
25.	Dr.P.B.Dahighavane	Government COE Avsari Pune	15/02/14
2014-2015			
26.	Vinayak Trivedi	Area Manager-Bently Software	19/3/2015
27.	Ajit Khandeshe	Consulting Environmental Engineer, KWAN Pvt Ltd Enviornmental Mumbai	9/1/2015
28.	Dr. Lamkhede	Associate Prof, PREC LONI	9/1/2015

29	Mr. Rohit Kumar	Environmental consultant, Research Scholar, IIT Powai	9/1/2015
30	S.B.Digholkar	Engineer, Jivan pradhikaran Ahmednagar	9/1/2015
31	C.R .Gajbhiye	Engineer, Jivan pradhikaran Ahmednagar	9/1/2015
32	Ghansham Chilveri	Design Engineer,SAPL,Mumbai	1/4/2015

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

b) International

Academic Year	Paper presentation competition	Seminar	Workshops	Conferences
2011-12	1	--	2	1
2012-13	1	1	1	--
2013-14	--	--	1	--
2014-15	--	--	1	--

Workshop/ Conferences:

Name of Workshop/ Conference	Associated Institute/ Industry	Date/ Duration	Resource Person	Target Audience
Academic Year 2011-12				
Two Day National Workshop on Recent Trends in Design Of RCC Structure	BCUD, University of Pune	28-29/ 03/12	1. Dr. B. N. Divekar 2. Abhay Khandeshi 3. Dr. Pranesh Mrunal 4. Dr. R. K. Ingale	All Students & Faculty
Auto CAD workshop	CESA organisation	29-30/ 8/2011	Prof. A. A. Waghmare	SE, TE & BE students
Academic Year 2012-13				
Two days National Seminar on "Advances in Geo technical Engineering and Laboratory Experimentation		21- 22/02/13	1. Dr. S. S. Bhosale 2. Annapurni Iyer 3. Dr. G. L. Shivakumar Babu 4. Dr. H. N. Ramesh	SE, TE & BE students
Academic Year 2013-14				
Five Day National Workshop on "Subsurface Investigation & Foundation for High Rise Structure.		11- 15 /02/14	Dr. S. S. Bhosale Dr. K. A. Patil Dr. M. S. Dixit Dr. T. K. Nagaraj Dr. J. R. Patil Prof. Jain S. S. Dr. Ladhane K B	SE, TE & BE students

Academic Year 2014-15				
Modern Techniques in Waste Water Treatment	BCUD Savitribai Phule Pune University	09/01/15	Ajit Khandeshe Dr. Lamkhede	All students and Faculty

26. Student profile programme / course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Pass percentage
2011-12	37	37	89.33%
2012-13	53	53	69.81%
2013-14	76	76	74.66%
2014-15	84	84	88.11%

27. Diversity of Students

Diversity of student

Year of admission	Name of the course	% of students from same state	% of students from other states	% of student from abroad
2011-2012	FE Civil	98.44%	1.56%	Nil
	SE Civil	100%	Nil	Nil
2012-2013	FE Civil	98.30	1.70%	Nil
	SE Civil	100%	Nil	Nil
2013-2014	FE Civil	96.87	3.13%	Nil
	SE Civil	100%	Nil	Nil
2014-2015	FE Civil	96.77	3.23%	Nil
	SE Civil	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, TOEFL etc.?

Academic Year	Civil Services	Defense Services
2010-2011	3	Nil
2011-2012	3	Nil
2012-2013	2	Nil
2013-2014	4	1

29. Student Progression

30. Details of Infrastructural facilities**a) Library :**

Student progression	2010-11 No. of students passed = 22	%	2011-12 No. of students passed = 33	%	2012-13 No. of students passed = 38	%	2013-14 No. of students passed = 59	%
Higher studies								
ME	Same Institute 02	13%	Same Institute 07	30%	Same Institute 02	8%	Same Institute 03	7%
	Other Institute 01		Other Institute 03		Other Institute 01		Other Institute 01	
	-----		02		-----		-----	
MS								
Employment	Government sector 03	13%	Government sector 03	10%	Government sector 02	7%	Government sector 05	8%
	Private sector 13	59%	Private sector 22	67%	Private sector 25	66%	Private sector 38	64%
Self employed	01	4%	02	6%	02	5%	01	2%

Central Library :41,468 books

Digital Library:10 no computers

Deptamental Library:1059 books

b) Internet facilities for Staff & Students

Wi-Fi within department with LAN connection to computers.

c) Class rooms with ICT facility: All classrooms**d) Laboratories:**

Sr. No.	Name of the Laboratory	Room No	Lab. Area (Sq. m)	Nos. of Equipments / Entries Available	Investment (Rs.)
01	Geology Lab	003A	48	10	1,99,089=00
02	Engineering Mechanics	003B	81	09	59,300=00
03	Surveying Lab	004	54	96	10,62,949=00
04	Environmental Engineering Lab	005	110	47	5,24,639.98 =00
05	UG Computer Lab 1	006	81	57	34,18,386=00
06	Geotechnical Engineering Lab	008	135	62	7,67,157=00
07	Testing of Materials Lab	001	109	54	9,31,408 =00
08	PG Research Lab	001A	55	14	11,38,283.16=00
09	PG Computer Lab	002A	54	25	6,52,275=00
10	Transportation Lab	002B	110	18	2,71,915.45 =00

11	UG Computer Lab 2	023A	55.6	43	10.94,425=00
12	Fluid Mechanics Lab	015	118	19	4,36,177=00
Total					1,05,56,004.54=00

31. Number of students receiving financial assistance from college, university, Government or other agencies

2011-12	2012-13	2013-14	2014-15
45	60	62	65

32. Details on student enrichment programmers (special lectures / workshops / seminar) with external experts

Date	Topic	Name of Guest Lecturer	Affiliation	Targeted Student
05/09/11	Water Resource Management	Er.Udmale	Irrigation,Dept.	S.E.&T.E.
15/09/11	Water Shed Management	Er.Dahatonde	Irrigation,Dept	S.E.&T.E.
31/07/12	Finite Element Analysis.	Dr.A.S.Sayyad	SRESOCOE.Kopergoan	TE & BE
06/09/12	Adsorption in Environmental Engineering	Dr.S.R.Mise	COE,Gulbarga	TE & BE
15/09/12	Opportunities for Civil Engineer in Indian Railway.	Er.S.L.Paithankar	Central Railway,Ahmednagar	SE,TE & BE.
05/09/13	Construction of Flexible Pavement	Er.Abhijit Raundal	P.W.D	T.E.
15/09/13	Advance in Bridge Engineering	Er.Bhushan Fegde	P.W.D	B.E.
18/02/13	Prestressed Concrete	Prof.K.B.Shinde	G.P.Ahmednagar	B.E.
05/09/14	Maintenance of Dams	Er.Hasnale	Irrigation Dept	B.E.
15/09/14	Contracts & Tendering	Er.Sanap	P.W.D	B.E.
18/03/14	Canal Construction & Maintenance	Er.Devdatta Falfale	P.W.D	T.E.
16/08/15	Waste Water Treatment	Prof.R.K.Lamkhede	P.R.E.C.Loni	B.E.
07/03/15	ISO Certification	Prof.R.P.Amle	P.R.E.C.Loni	B.E.

33. Teaching methods adopted to improve student learning

Teaching methods adopted to improve learning procedure

1. Up-to-date and well furnished classrooms and laboratories

a. No. of Classrooms = 7

b. No of Laboratory (inclusive of UG & PG course) = 12

2. Provision of amenities in classrooms like:

a. Green boards for direct teaching and learning process = 12

b. No. of white board, for PG classroom = 01

3. Soft computing facilities for effective and advanced learning:

a. No. of LCD projectors for live presentation, ppt and animation = 3

b. No. of OHP for presentation of transparencies = 2

c. No. of Screens = 4

4. Fully furnished computer labs with Internet LAN connection and Wifi connection:

a. No of Computers under different labs = 101

b. No. of printers for making availability of hard copy of any data and
Notes = 07

c. No. of scanners for making photocopy of any data = 03

5. Availability of softwares:

a. Auto CAD 2012

b. STADD Pro

c. Etab

d. R- Cube

e. Stuards

f. Built Master

6. Use of Magazines and Journals from periodicals sections for updating knowledge

UG Course:

Sr. No.	Name of Journal	Frequency
1	Civil Engineering & Construction Review	Monthly
2	Indian Concrete Journal	Monthly
3	Ind. Journal of Power & River Valley Development	Bimonthly
4	Journal of Geological Society of India	Monthly
5	VSRD Int. Journal of Civil Engineering	Monthly
6	Journal of Water Pollution & Purification Research	Quarterly

PG Course:

Sr. No.	Name of Journal	Frequency
1	Journal of Construction Engineering, Technology & Management	Quarterly
2	Recent Trends in Civil Engineering & Technology	Quarterly
3	Journal of structural Engineering & Management	Quarterly
4	Journal of Offshore structures Engineering & Technology	Quarterly
5	Journal of structural Engineering	Bimonthly
6	The bridge & Structural Engineering	monthly

List of E-Journals:

Sr. No.	Publisher	Subject Access	E-Content
1	ASCE	Civil Engineering	ASCE e-journal package of 33 e-journals (Back file access since 1983)
2	ELSEVIER	Engineering +Computer Science (Electrical +Electronics+ Mechanical +Civil and structures etc)	SCIENCE DIRECT 275 journals back file access since 2000 onwards)
3	ASTM journals	National journals	Current issues
4	DELNET	DELNET Database	Union catalogue of books & Journals, full text, e-journals & e-books)

7. Arrangement of Expert lectures, Seminars, WS, STTP, for students as well as faculty

8. Provision for use of Departmental and central library for books, IS codes, Manuals etc.

9. Arrangement of Site visit and Industrial visit for live demonstration of construction works and different manufacturing processes.

10. Encouragement for use of INTERNET to study different educational websites like NPTEL HRD, virtual laboratory etc for notes.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

NSS camp details:

Year	Name of camp	Date/ Duration	Details of work undertaken camp	Place of camp	No. of students attended the camp
2011-12	7 day camp	16 th to 22 nd Jan 2012	Layout plan of village prepared and submitted to Gram panchayat Excavation of Soak pit for ZP school	Sarola Baddi	30
2012-13	7 day NSS special winter camp	13 th to 19 th Jan 2013	Layout plan of village and estimation of road work	Jakhangaon	34
2013-14	7 day NSS special winter camp	10 th to 16 th Jan 2014	Preparing Layout plan of village and showing Drainage and waterline for ZP Ahmednagar waterline laying work	Jakhangaon	34
2014-15	7 day camp	24 th to 31 st Dec 2014	Preparing Layout plan of Darewadi village	Darewadi	30

35. SWOC analysis of the department and Future plans**STRENGTH:-**

1) Experienced and highly qualified staff

Total staff – 22

PhD pursuing - 04

PhD completed - 01

M.E. Pursing- 04

M.E. Completed - 13

B.E- 00

2) Well Equipped labs as per A.I.C.T.E. Norms and satisfying requirements Savitribai Phule Pune University, Pune.

3) All computers have Wi-Fi Connectivity with 32 mbps

4) Student computer ratio = 1:4 is satisfied for U.G

1:2 is satisfied for P.G

5) Department organized expert lectures, seminars & Workshops

6) Revenue generation through the testing and consultancy

WEAKNESS:-

- 1) Tough area of Testing of Materials lab is as per norms of A.I.C.T.E. and satisfying requirements Savitribai Phule Pune University, Pune. But it is inadequate space for storage of testing of materials.
- 2) Up gradation and Modernization of some important equipment is necessary.
- 3) Sufficient staff cabins are not available in the department.
- 4) Separate drawing hall is not available in the department.

OPPORTUNITIES:-

1. P.G. in Structural Engineering
2. To impart practical knowledge to the students through consultancy work.
3. Collaboration with foreign Universities and other universities.
4. To impart theoretical and practical knowledge to the students, so that they can able to work in various Civil Engineering fields.

CHALLENGES:-

- 1) To expert the students for research in marine/sea shore construction,
- 2) To motivate the students for higher education in foreign countries.

1. Name of the department: DEPARTMENT OF MECHANICAL ENGINEERING

2. Year of Establishment: 1986

3. Names of Programmes / Courses offered :

1. UG-B.E Mechanical Engineering
2. PG-M.E. Mechanical Engineering (Design Engineering)

4. Names of Interdisciplinary courses and the departments/units involved:

1. Department of Mathematics
2. Department of Electrical Engineering
3. Department of Electronics and Telecommunication Engineering

5. Annual/ semester/choice based credit system (programme wise):

1. Semester based credit system

6. Participation of the department in the courses offered by other departments

1. First Year Engineering (common)

7. Courses in collaboration with other universities, industries, foreign institutions, etc.— Nil, Proposed with IGTR, Aurangabad.

8. Details of courses/programmes discontinued (if any) with reasons

Nil

9. Number of Teaching posts:

	Sanctioned	Filled
Professors	04	02
Associate Professors	08	04
Asst. Professors	24	29

10. Faculty profile with name, qualification, designation, specialization :

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. K.B. Kale	M.E. Mech Ph.D.	Professor & HOD	CAD/CAM & Design Engineering	19
Dr. J.C.Burse	M.E. Mech Ph.D.	Professor	Tribology	41
Prof. J.Jaykumar	M.E. Mech Ph.D*.	Associate Professor	Nano Composites	17
Prof. R.R.Navthar	M.E. Mech Ph.D*.	Associate Professor	Tribology	14
Prof. S.M.Magar	M.E. Mech Ph.D*.	Associate Professor	Vibrations	14
Prof. P.A.Narwade	M.E. Mech	Assistant Professor	Vibrations	14
Prof.R.E.Kalhapure	M.E. Production	Workshop Superintendent	Manufacturing Technology	14
Prof. R.N.Zaware	B.E. Mech	Assistant Professor	CAD/CAM	15
Prof. C.R.Shah	M.E. Mech	Assistant Professor	Design Engineering	08
A.R. Kachare	M.E. Mech	Assistant Professor	Thermal Engineering	07
Prof.B.T.Tagad	M.E. Mech	Assistant Professor	Thermal Engineering	07
Prof.A.D.Kachare	M.E. Mech	Assistant Professor	Design Engineering	07
Prof.D.B.Thange	M.E. Mech*	Assistant Professor	Thermal Engineering	07
Prof.R.S.Waghmare	M.E. Mech*	Assistant Professor	Thermal Engineering	07
Prof.K.M.Markad	M.E. Mech	Assistant Professor	Tribology	07
Prof.V.P.Patekar	M.E. Mech	Assistant Professor	Vibrations	06
Prof.D.K.Nannaware	M.E. Mech	Assistant Professor	Design Engineering	06
Prof.S.G.Kotakar	M.E. Mech*	Assistant Professor	CAD/CAM	06
Prof.A.D.Pathak	M.E. Mech*	Assistant Professor	CAD/CAM	05
Mrs.M.S.Chopade	M.E. Mech*	Assistant Professor	Manufacturing Technology	04
Prof.P.P.Rasal	M.E. Mech	Assistant Professor	CAD/CAM	03
Prof.M.M.Bidwe	M.E. Mech	Assistant	CAD/CAM	09

		Professor		
Prof.A.V.Suryavanshi	M.E. Mech*	Assistant Professor	Design Engineering	21
Prof.V.Y.Dhepe	M.E. Mech	Assistant Professor	Thermal Engineering	11
Prof.S.B.Kharde	M.E. Mech	Assistant Professor	Thermal Engineering	02
Miss S.S.Gadhe	M.E. Mech*	Assistant Professor	Design Engineering	02
Miss K.S.Kadam	M.E. Mech*	Assistant Professor	Design Engineering	02
Prof.M.A.Kadu	M.E. Mech*	Assistant Professor	Design Engineering	02
Prof.S.S.Vyavahare	M.E. Mech	Assistant Professor	CAD/CAM	04
Prof.P.G.Kalwade	B.E.Mech., MBA, CFA(I&II), PhD*	Assistant Professor	Mechanical Engineering	20
Prof.Y.S.Pathare	M.E. Mech	Assistant Professor	Design Engineering	04
Prof.P.G.Kohak	M.E. Mech*	Assistant Professor	Design Engineering	01
Prof.S.K.Kadu	M.E. Mech	Assistant Professor	Design Engineering	05
Prof.V.H.Khemnar	M.E. Mech	Assistant Professor	Design Engineering	01
Prof.R.A.Kandake	M.E. Production	Assistant Professor	Manufacturing Technology	03

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)

Academic Year	2011-2012	2012-2013	2013-2014	2014-2015
Student -Teacher Ratio UG	18:1	17.5:1	18.46:1	17.42:1
Student -Teacher Ratio PG	12:1	12:1	12:1	12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	Sanctioned	Filled
Academic support staff	10	10

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Name	Qualification	Specialization
Dr.H.N. Kudal	Ph.D. Mech.	Thermal Engineering
Dr. K.B. Kale	M.E. Mech Ph.D.	CAD/CAM & Design Engineering
Dr. J.C.Burse	M.E. Mech Ph.D.	Tribology
Prof. J.Jaykumar	M.E. Mech Ph.D*.	Nano Composites
Prof. R.R.Navthar	M.E. Mech Ph.D*.	Tribology
Prof. S.M.Magar	M.E. Mech Ph.D*.	Vibrations
Prof. P.A.Narwade	M.E. Mech	Vibrations
Prof.R.E.Kalhapure	M.E. Production	Manufacturing Technology
Prof. R.N.Zaware	B.E. Mech	CAD/CAM
Prof. C.R.Shah	M.E. Mech	Design Engineering
Prof. A.R. Kachare	M.E. Mech	Thermal Engineering
Prof.B.T.Tagad	M.E. Mech	Thermal Engineering
Prof.A.D.Kachare	M.E. Mech	Design Engineering
Prof.K.M.Markad	M.E. Mech	Tribology
Prof.V.P.Patekar	M.E. Mech	Vibrations
Prof.D.K.Nannaware	M.E. Mech	Design Engineering
Prof.P.P.Rasal	M.E. Mech	CAD/CAM
Prof.M.M.Bidwe	M.E. Mech	CAD/CAM
Prof.A.V.Suryavanshi	M.E. Mech	Design Engineering
Prof.V.Y.Dhepe	M.E. Mech	Thermal Engineering
Prof.S.B.Kharde	M.E. Mech	Thermal Engineering
Prof.S.S.Vyavahare	M.E. Mech	CAD/CAM
Prof.P.G.Kalwade	B.E.Mech.,MBA, CFA(I&II), PhD*	Mechanical Engineering & Management
Prof.Y.S.Pathare	M.E. Mech	Design Engineering
Prof.S.K.Kadu	M.E. Mech	Design Engineering
Prof.V.H.Khemnar	M.E. Mech	Design Engineering
Prof.R.A.Kandake	M.E. Production	Manufacturing Technology

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Name of Faculty	Year	Title of Research Work	Funding Agency	Amount Rs.
Prof. J.Jaykumar	2010-12	Study on mechanical properties of Mg/Al composites	BCUD	2 Lac
Prof. R.R.Navthar	2010-12	Stability analysis of hydrodynamic journal bearing & Development of Feedback control system for stability of film thickness	BCUD	2 Lac
Prof. J.Jaykumar	2013-16	Fabrication of Mg Nano composites reinforced with multiwall carbon Nanotubes	AICTE, Govt. of India	11.5 Lac
Dr.H.N.Kudal	2013-16	Experimentation and numerical simulation to improve Performance of helical coiled tube heat exchangers	BCUD	2.3 Lac

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Industry/Agency	Amount Granted	Facilities Created
QIP, University of Pune	1,02,150/-	Ductility Testing Machine
AICTE, Govt. of India	5,00,000/-	Vacuum Stir Casting Furnace
AICTE, Govt. of India	1,00,000/-	Tubular Sintering Furnace
AICTE, Govt. of India	4,00,000/-	Planetary Ball Mill
Modrobs Scheme	12,00,000/-	FFT Analyzer

18. Research Centre /facility recognized by the University: Nil

19. Publications:

a) Publication per faculty : 0.5714

b) Number of papers published in peer reviewed journals (national /international) by faculty and students = 20

c) Number of publications listed in International Database = 20

d) Monographs= Nil

e) Chapter in Books = Nil

f) Books Edited=Nil

g) Books with ISBN/ISSN numbers with details of publishers=10

20. Areas of consultancy and income generated :

Year	Description	Project Coordinator	Duration	Project Cost Rs
1	PG lab Consultancy	Prof R R Navthar	11/07/2014 to 15/07/2014	8450/-
2	PG lab Consultancy	Prof R R Navthar	20/12/2014 to 17/03/2015	15200/-
3	Material Science lab	Prof J Jayakumar	26/12/2014 to 12/03/2015	4700/-

21. Faculty as members in

a) National committees - 1

b) International Committees

c) Editorial Boards

22. Student projects**A) Percentage of students who have done in-house projects including interdepartmental program.**

Academic Year	Total Number of students	Number of students with in house(Non-Sponsored) projects	% of students with in-house(Non-Sponsored) projects
2011-2012	90	68	75.55%
2012-2013	127	108	85.50%
2013-2014	128	77	60.15%
2014-2015	146	87	59.58%

B) Percentage of students placed for projects in organizations outside the institution i.e.in Research Laboratories/Industry/Other Agencies.

Academic Year	Total Number of students	Number of students with Sponsored projects	% of students with Sponsored projects
2011-2012	90	22	24.44%
2012-2013	127	19	14.96%
2013-2014	128	51	39.84%
2014-2015	146	59	40.41%

23. Awards / Recognitions received by faculty and students

Sr. No.	Name of award	Name of Faculty	Institute	Year
1	Engineering Achievement Award	Dr.K.B.Kale	Institution of Engineers	2012-13
2	International conference for Paper Presentation in Management	Prof.P.G.Kalwade	AIMS,Pune	2014-15

24. List of eminent academicians and scientists / visitors to the Department

Sr.No	Name of academicians and scientists / visitors	Institute	Date
1	Dr.Manmohan Singh	Sccientist F, VRDE, Ahmednagar	19 March2012
2	Dr Thipse S.B.	ARAI pune	12 July 2014
3	Dr. Ramkrishnan	IISC Bangalore	27 Aug 2014
4	Er. Ganesh Yeole	Sccientist, VRDE, Ahmednagar	5Jan 2015
5	Dr. S.B.Singh	ITM DRDO Mhasuri Uttarakhand	13 Jan 2015
6	Dr A K Shrivastav	Joint Controller, CQAV, Ahmednagar	23 Jan 2015
7	Dr. J P Tiwari	Joint Controller,CQAE,Jabalpur	23 June 2014
8	Dr. H. Maheshaapa	Vice Chancellor, VTU, Karnataka	21 Jan 2015
9	Dr. S.G.Thakur	Prof., Army Institute of Technology, Pune	22 Jan 2015
10	Dr. U N Gaitonde	IIT,Bombay	04 March 2015

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Sr. No.	Academic Year	Event	Source of Funding	Amount in Rs
1	2014-2015	Recent Advances in Mechanical Engineering RAME-2015	SPPU, Pune	2,00,000.00

b) International- Nil

26. Student profile programme/course wise:

Academic Year	TOTAL INTAKE	TOTAL ADMISSION
2011-12	450	497
2012-13	480	538
2013-14	540	625
2014-15	600	661

27. Diversity of Students

Academic Year	% of students from the same state	% of students from other States	% of students from abroad
2011-12	100	Nil	Nil
2012-13	100	Nil	Nil
2013-14	100	Nil	Nil
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. ?

GATE Qualified	Defense Services	Others
18	5	Nil
1	1	Nil

29. Student progression

Student progression	Against % enrolled
UG to PG	5
PG to M.Phil	Nil
PG to Ph.D	Nil
Ph.D. to Post-Doctoral	Nil
Employed	
Campus selection	5
Other than campus recruitment	70
Entrepreneurship/Self-employment	20

30. Details of Infrastructural facilities

Sr.no.	Name of item	Total no.
1.	Class rooms	9
2.	Laboratories	19
3.	Departmental library	01
4.	Seminar hall	01

a) Library

Other than central Library of college, department has separate Library .

b) Internet facilities for Staff & Students:

Internet facilities are made available at various Laboratories for staff and students.

c) Class rooms with ICT facility

Class rooms are available with ICT facility

d) Laboratories

Sr.No	Curriculum Lab description	Room No	Exclusive/Shared	Area Sq.m.
1	Metallurgy Lab	015C	Exclusive	75
2	PG-Lab	015A	Exclusive	88
3	Theory of Machines	015B	Exclusive	66
4	Metrology Lab	018B	Exclusive	109
5	Material Science	018A	Exclusive	66
6	IC Engine Lab	017B	Shared with Electrical Engg	83
7	Refrigeration Lab	017A	Exclusive	83
8	P.G.Computer lab	16	Exclusive	60
9	Heat Transfer	13	Shared with Instru Engg	81
10	Dynamics of machine	12	Shared	82
11	CAD CAM Lab	11	Exclusive	82
12	Computer Lab	10	Exclusive	81
13	Drawing Hall	121	Shared	172

14	Seminar Hall	120	Shared	172
15	Central Computer Centre	24	Shared with All Branches for FE	168
16	Fluid Machinery	018D	Shared with Electrical Engg & Civil Engg	200.1
17	Project Lab	WS-16	Exclusive	82
18	Fluid Mechanics	WS-15	Exclusive	82
19	Modelling Lab	021	Exclusive	83
20	Soft Skill Lab	023A	Exclusive	66

31. Number of students receiving financial assistance from college, university, Government or other agencies.

- A student receives financial assistance from college based on merits as per policy of PDVVP foundation scholarship for meritorious students.
- SPP University provides financial assistance to students in form of schemes like “ Earn & Learn”
- As Per Government Policy based on various criteria financial assistance is imparted to students in tuition fees in co ordination with Department of Social Welfare.

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts.

Seminar/Conference/Workshops Attended by Students :

Academic Year	2011-12	2012-13	2013-14	2014-15
Department of Mechanical Engineering	40	28	19	25

Expert lectures arranged: External experts are regularly invited by the college to give lectures to the students on advanced research topics.

Department	Academic Year			
	2011-12	2012-13	2013-14	2014-15
Department of Mechanical Engineering	01	01	02	02

Sr No	Resource person	Designation, institute	Date
1	Dr.Manmohan Singh	Scientist F, VRDE, Ahmednagar	19 March 2012
2	Dr Thipse S.B.	ARAI pune	12 July 2014
3	Dr. Ramkrishnan	ISC Bangalore	27 Aug 2014
4	Er. Ganesh Yeole	Scientist, VRDE, Ahmednagar	5 Jan 2015
5	Dr. S.B.Singh	ITM DRDO Masuri Uttarakhand	13 Jan 2015
6	Dr A K Shrivastav	Joint Controller, CQAV, Ahmednagar	23 Jan 2015
7	Dr. J P Tiwari	Joint Controller, CQAE, Jabalpur	23 Jan 2015

Industrial Visits:

Sr No	Date	Class	Company
1	11/10/11	BE	HPCL, Sinner, Nasik
2	3/2/12	TE	Pumping Station, MIDC, Ahmednagar
3	16/3/12	BE	Dahanu power plant, Thane
4	29/3/12	SE	IGTR, Aurangabad
5	31/3/12	TE	Ghatghar power plant, Thane
6	6/11/12	BE	HPCL, Sinner, Nasik
7	7/2/13	SE	IGTR, Aurangabad
8	15/3/13	TE	Radhanagari power plant, Kohalapur
9	/3/13	TE	Pumping Station, MIDC, Ahmednagar
10	14/4/13	BE	DSSK Ltd Cogeneration Power Plant, Newasa, Ahmednagar
11	9/10/13	SE	Shiv alloy casting, MIDC, Ahmednagar
12	8/2/14	BE	DSSK Ltd Cogeneration Power Plant, Newasa, Ahmednagar
13	12/2/14	TE	Radhanagari power plant, Kohalapur
14	21/3/14	TE	Pumping Station, MIDC, Ahmednagar

15	23/9/14	SE	L & T Ltd , Ahmednagar
16	21/2/15	TE	Paitan Power Plant, Ahmednagar
17	24/2/15	BE	DSSK Ltd Cogenration Power Plant,Newasa,Ahmednagar
18	18/3/15	TE	Pumping Station , MIDC, Ahmednagar
19	26/3/15	BE	JSW Energy Ltd, Ratanagiri

33. Teaching methods adopted to improve student learning

Remedial Classes are conducted for slow learners. Various teaching Aids are used for visualization and imagination.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Students are encouraged to participate in activities like NSS,etc.

35. SWOC analysis of the department and Future plans

Strengths:

- Driven by our mission statement of imparting knowledge to all
- Harmonious relationship among the members of the management, staff, students and parents
- Illustrious faculty, student-centered teaching
- Integration of teaching and research
- Proactive Career and Placement cell and professional counselor for student support
- High success rates in examinations as compared to University resu
- Representation by a large number of faculty members in Board of Studies contributing to curriculum design and implementation
- Wide range of extension, co-curricular and extra-curricular activities
- Student feedback analyzed and used for improvement in all processes
- Optimum utilization of resources
- Teaching aids for ICT enabled teaching
- Eco-friendly premises

Weakness:

- Diverse student community
- Due to the economic background of students and the paucity of time available to them, limitation on implementing of value added courses
- Paucity of time for the teachers for research work
- Student community with lack of communication skill.

Opportunities

- Location advantage for strengthening academia-industry linkages
- Streamlining collaborations and consultancy
- Exploring possibility of collaborative research with research institution

Challenges:

- Keeping pace with the rapid changes in higher education
- Sustaining quality along with access
- Providing resources for marginalized students
- Generation of resources for up gradation of infrastructure

Future plan:

- To establish Research Centre.
- Collaboration with various industries for research and starting short term courses.
- Foreign Collaboration with various Universities for Student Exchange Programmes.

1. **Name of the department : DEPARTMENT OF ELECTRICAL ENGINEERING**
2. **Year of Establishment : 1999**
3. **Names of Programmes / Courses offered:**
Electrical Engineering (UG)
4. **Names of Interdisciplinary courses and the departments/units involved :** Mechanical Engineering
5. **Annual/ semester/choice based credit system (programme wise) :** Semester System
6. **Participation of the department in the courses offered by other departments :** SE(Mech) for subject :Electrical & Electronics 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**

Post	Sanctioned	Filled
Professors	01	01
Associate Professors	03	02
Asst. Professors	10	09

10. Faculty profile with name, qualification, designation, specialization

Sr. No.	Name of Staff	Qualification	Designation	Specialization	No. of Years of Experience
1.	Prof. M. G. Unde	M. E. Electrical (P. S.), Ph. D. Regi.	HOD & Professor	Power System	28
2.	Prof. S. A Markad	M. E. Electrical (P. S.), Ph. D. Regi.	Associate Professor	Power System	15
3.	Prof. S. K. Sheikh	M. E. Electrical (P. S.), Ph. D. Regi.	Associate Professor	Power System	19
4	Prof. R. A. Wakale	B.E.(Electrical), M.E.Appear	Assistant Professor	Power System	13
5	Prof. M. H Nerkar	M. E. Electrical (C. S.)	Assistant Professor	Control system	07
6	Prof. K.R Ghadge	M. E. Electrical (C. S.)	Assistant Professor	Control system	06
7	Prof. Sumit Kumar	M. E. Electrical (P.S.)	Assistant Professor	Power System	04

8	Prof. G.K. Shirsath	B.E.(Electrical), M.E. Appear	Assistant Professor	Power System	03
9	Prof. S.K. Awaze	M. E. Electrical (P.S.)	Assistant Professor	Power System	03
10	Prof. A.P. Wankhede	B.E.(Electrical), M.E. Appear	Assistant Professor	Power System	03
11	Prof. G.B.Murade	B.E.(Electrical), M.E. Appear	Assistant Professor	Power System	02
12	Prof. P.U.Raut	B. E. Electrical	Assistant Professor	--	06 Months

11. List of senior visiting faculty

- i) Prof. A.B. Chaudhuri
- ii) Prof. R.K. Pardeshi

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :

Class	Theory %	Practical %
SE Electrical	--	12.5
TE Electrical	10	---
BE Electrical	--	--

13. Student -Teacher Ratio (programme wise)

Academic Year	2011-2012	2012-2013	2013-2014	2014-2015
Student Teacher Ratio	13.84:1	13.84:1	18:1	18:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Supporting Staff (Technical)	Sanctioned	Filled
	03	02
Administrative Staff	Nil	Nil

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Sr. No.	Name of Staff	Qualification
1.	Prof. M. G. Unde	M. E. Electrical (P. S.), Ph. D. Regi.
2.	Prof. S. A Markad	M. E. Electrical (P. S.), Ph. D. Regi.
3.	Prof. S. K. Sheikh	M. E. Electrical (P. S.), Ph. D. Regi.
4	Prof. R. A. Wakale	B.E.(Electrical),M.E.Appear

5	Prof. M. H Nerkar	M. E. Electrical (C. S.)
6	Prof. K.R Ghadge	M. E. Electrical (C. S.)
7	Prof. Sumit Kumar	M. E. Electrical (P.S.)
8	Prof. G.K. Shirsath	B.E.(Electrical), M.E. Appear
9	Prof. S.K. Awaze	M. E. Electrical (P.S.)
10	Prof. A.P. Wankhede	B.E.(Electrical), M.E. Appear
11	Prof. G.B.Murade	B.E.(Electrical), M.E. Appear
12	Prof. P.U.Raut	B. E. Electrical

16. Number of faculty with ongoing projects from

a) National : Nil

b) International funding agencies and grants received :Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : 03

18. Research Centre /facility recognized by the University : 01

19. Publications:

Sr No	Name of Staff	No. of papers published	National Conference	International Conference	National Journal	International Journal
1	Prof. M. G. Unde	13	04	06	--	03
2	Prof. S. A Markad	05	04			00
3	Prof. S. K. Sheikh	05				01
4	Prof. R. A. Wakale	02				00
5	Prof. M. H Nerkar	05	03	01	--	01
6	Prof. K.R Ghadge	11				02
7	Prof. Sumit Kumar	02	02			02
8	Prof. G.K. Shirsath	02	02			00
9	Prof. S.K. Awaze	02	02			00
10	Prof. A.P. Wankhede	03	02			01

- Number of papers published in peer reviewed journals (national / international) by faculty and students: 03
- 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.) :05
- Monographs: Nil

20. Areas of consultancy and income generated

Sr.No	Name of party	Date	Amount	Description
1	Ahmednagar Municipal Corporation	16/07/2012	49,000/-	Cable, wire Led lamp, T-5 Lamp contactor
2	Ahmednagar Municipal Corporation	5/11/2012	2,18,093/-	Third party Inspection
3	Ahmednagar Municipal Corporation	6/12/2012	2000/-	Testing
4	Ahmednagar Municipal Corporation	13/12/2012	7000/-	Testing
5	Ahmednagar Municipal Corporation	27/12/2012	30,000/-	T-5 Lamps. Wire Led T-5 Lamp, Timer
6	Deolali Nagar Palika	13/02/2013	2000/-	Testing
7	Rahuri Nagar Palika	30/03/2013	3500/-	Testing
8	Rahuri Nagar Palika	16/01/2014	3000/-	Testing
9	Deolali Nagar Palika	21/05/2014	1500/-	Testing
	Total		3,16,093/-	

21. Faculty as members in

- National committees b) International Committees c) Editorial Boards: Nil

22. Student projects

- Percentage of students who have done in-house projects including inter departmental/programme
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies ---

Year	In-house projects %	outside the institution %
2011-12	69.87	30.13
2012-13	59.10	40.90
2013-14	75.44	24.56
2014-15	*80	20

23. Awards / Recognitions received by faculty and students :

- Prof. M G Unde
Best research paper award by KKW IEE&R Nashik.
- Prof. K R Ghadge
Lady Engineer Award received from IE(India)Local center Ahmednagar.

24. List of eminent academicians and scientists / visitors to the department

Eminent academician and scientists/ visitors	Expertise	Institutes
Er. A.B.Chaudhary	Industries drives, Communication Skill, Personality development.	Retired Chief Engineer Crompton Greaves Ltd. Ahmednagar
Dr. B.E. Kushare	Power quality Energy audit and conservation	K.K.Wagh College of Engineering Nashik
Dr. Omprakash Kulkarni	Solar Heater and solar system	Sharda Invention, Satpur MIDC Nashik
Dr. Y.P. Nerkar	High voltage engineering	PVG College of engineering Pune
Dr. V. N. Bandal	MATLAB & Control	Govt.C.O.E.P Pune
Dr. D.B. Talange	Signals and Control	Govt. COEP,Pune
Prof. A.A. Khandekar	Matlab applications in control system	Zeal COE,Pune
Er. N.V. Kale (Scientist "F")	Advanced Microprocessor & Applications	DRDO Hyderabad

25. Seminars/ Conferences/Workshops organized & the source of funding

- a) National ----01 Funded by University of Pune (National conference on integrated power system)
- b) International ----Nil

26. Student profile programme/course wise:

Name of the Course/programme	Applications	Selected	Enrolled		Pass
			*M	*F	Course/programme
Electrical Engineering	Centralized admission process [CAP] by DTE		215	70	89.65
			285		

Diversity of Students :

Name of the Course	% of student from same state	% of student from other state	% of student from abroad
Electrical Engineering	94.93	5.07	00

28. How many students have cleared national and state competitive examinations such as NET, SLET, , Civil services, Defense services, etc. ?

GATE: 2012- 13

- 1) Anish nair
- 2) Amol Varade
- 3) Amit Ranjan Baitha

GATE: 2013-14

- 1) Anuja Jagdale

29. Student progression

Student progression	Against % enrolled
UG to PG	06 * In other Institute
PG to M.Phil.	---
PG to Ph.D.	---
Ph.D. to Post-Doctoral	---
Employed	
Campus selection	12
Other than campus recruitment	40
Entrepreneurship/Self-employment	32

30. Details of Infrastructural facilities

a) Library -----Yes

Departmental Library

Area : 30 sq.m

Total Books

Titles: 86

Volumes: 207

No of Seminar reports: 452

No of project reports: 82

Other non-technical books: 23

b) Internet facilities for Staff & Students

Provided for every staff & students

c) Class rooms with ICT facility

d) Laboratories

Sr. No.	Name of the Laboratory	Total Cost in Rs.
1	Machine lab. I & II	13,27,565.00
2	Basic Electrical lab.	1,47,152.00
3	Measurement lab.	4,96,479.00
4	Power system lab.	14,20,329.00
5	Analog & Digital lab.	4,88,833.50
6	Power Electronics and IDC lab.	6,54,482.00
7	Control system+NA+PLC lab.	7,60,258.00
8	Switchgear and protection lab.	4,27,832.00
9	High voltage lab.	1,12,264.72
10	Microprocessor & Microcontroller lab.	5,50,218.00
11	Computer lab.	27,28,025.00
12	Testing	4,58,861.00
Grant Total		95,72,309=12

31. Number of students receiving financial assistance from college, university, government or other agencies

Sr. No	Name of student	class	Agency
1	Darekar Anil	TE	Cummins Generator Technology, Ahmednagar.
2	Ingale Sagar	BE	Cummins Generator Technology, Ahmednagar.

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts Workshop on PLC SCADA

Sr. No.	Year of conduction	Date of workshop	Experts name	Institute Name
1	2011-12	22 to 28 August 2011	Er. Sandip Thange	Krish Infotech, Pune
2	2012-13	16 to 21 July 2012	Er.Ramesh Wakchaure	Prolific Systems & Technologies Pvt. Ltd., Pune.
3	2013-14	17 to 22 July 2013	Er.Shriram Pendse	Just Engineering, Pune
4	2014-15	7 to 12 July 2014	Er.Gajanan Chavan	Prolific Systems & Technologies Pvt. Ltd., Pune.

- Seminar on Extra High voltage transmission delivered by Maske R N, Chief Engineer MSETC Aurangabad.
- Seminar on Personality development delivered by Prof A.B. Chaudhuri Ex.Chief Engineer Crompton Greaves Ltd. Ahmednagar.

33. Teaching methods adopted to improve student learning :

- Blackboard and chalk
- LCD projector and OHP
- Question bank
- Self study points along with title of book and page numbers.
- Content beyond the syllabi
- Notes in CD format
- Soft copy for Lab work.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Institutional Social responsibility	Extension activities
Organizing blood donating camp	Lectures to school Students for electrical safety
Tree plantation	Expert lectures to MSEB engineers
	Collaboration with Industries.

35. SWOC analysis of the department and Future plans :

STRENGTH:

Our strengths of the department are as follows:

- Well experienced and dedicated and enthusiastic faculty.
- Three storied separate building with area at par as per AICTE norms and well equipped laboratories.
- Eco friendly, healthy and cooperative, pleasant working atmosphere.
- Many faculties are encouraged for research publications, participations in national and international seminars, workshops, Symposiums etc.
- Continuous encouragement is provided for faculty members in pursuing their higher qualification and research which will assist to their Ph.D.

WEAKNESS:

Some of the weaknesses of the departments are:

- Gear up R and D, consultancy work in collaboration with national agencies and industries as

resource of funding need to be improved.

OPPORTUNITY:

There are opportunities exist in the Department:

- To strengthen the industry-institute interaction for campus placement and faculty training.
- To have a projects in collaboration with industries and National and International funding agencies
- Preparing students for GATE, GRE and MPSC, UPSC, IES, Railway, State electricity board competitive Examinations.

CHALLENGES:

There are challenges to worth mention

- To have MoU's with Industries and National organizations for academic and R&D activities in thrust areas of power quality, Electromagnetic interference due to Ultra High voltages projects, lightening arresters etc.
- To carry out Sponsored & Funded Projects from Government Agencies like DRDO, ISRO, AICTE.
- All Faculty members with PhD's.

FUTURE PLANS

- To start PG courses such as (ME Power systems, Control Systems)
- To establish the Center of Excellence in the area of Electrical Power Systems.
- To create the awareness about the Energy conservation program in and around the students of schools , colleges and citizens.
- To strengthen the programs for higher education in abroad.
- To make maximum number of students qualify GATE/IES examination with good score.

1. **Name of the department: Electronics and Telecommunication**
2. **Year of Establishment: 1983**
3. **Names of Programmes / Courses offered: UG**
4. **Names of Interdisciplinary courses and the departments/units involved : No**
5. **Annual/ semester /choice based credit system (programme wise): Semester**
6. **Participation of the department in the courses offered by other departments: Yes (S.E.Mech.)**
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.: No**
8. **Details of courses/programmes discontinued (if any) with reasons: Elx to ETC 2007-08**
9. **Number of Teaching Posts**

Post	Sanctioned	Filled
Professors	03	00
Associate Professors	06	02
Asst. Professors	18	22

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. /PG, etc.,)**

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience
1.	Prof. Mrs. S.S.Magar	M.E. ELEX , Phd Pursuing	Associate Professor & HOD	Communication	15
2.	Prof.A.K.Patil	M.E. ELEX , Phd Pursuing	Associate Professor	Antenna and Wave theory	14
3.	Prof.V.G.Kale	M.E. ELEX	Assistant Professor	Digital signal and Image Processing	12
4.	Prof.N.M.Deshpande	M.E. ELEX	Assistant Professor	Digital signal and Image Processing	11
5.	Prof.J.P.Botkar	M.E. E & TC	Assistant	Computer	9

			Professor	Network	
6.	Prof. P.P.Bhalerao	M.E. E & TC	Assistant Professor	Electromagnetics	8.5
7.	Prof.A.R.Landge	M.E. E & TC	Assistant Professor	VLSI	8
8.	Prof.S.R.Udawant	M.E. E & TC	Assistant Professor	Digital Communication	8
9.	Prof.C.K.Kalawade	M.E. E & TC	Assistant Professor	Microcontroller & Embedded systems	6.5
10.	Prof.V.A.Dhawale	M.E. E & TC	Assistant Professor	Digital Electronics	5
11.	Prof.M.B.Avahd	M.E. E & TC	Assistant Professor	Data structures and Files	5
12.	Prof.R.J.Lawande	M.E. E & TC	Assistant Professor	System programming	4.5
13.	Prof.P.B.Varpe	M.E. E & TC	Assistant Professor	Analog communication	4
14.	Prof.S.J.Wamne	M.E. E & TC	Assistant Professor	Signal and Systems	3.5
15.	Prof.V.S.Khakal	M.E. E & TC Appear	Assistant Professor	Network Theory	3
16.	Prof.T.N.Pawase	M.E. E & TC	Assistant Professor	Control Systems	2.5
17.	Prof.M.K.Musale	M.E. E & TC Appear	Assistant Professor	Solid state Devices	2.5
18.	Prof.S.G.Bhradi	M.E. E & TC Appear	Assistant Professor	Computer Organization	1.5
19.	Prof.A.U.Vikhe	M.E. E & TC Appear	Assistant Professor	Power Electronics	1.5
20.	Prof.P.S.Thorat	M.E. E & TC	Assistant Professor	Industrial Management	3
21.	Prof.A.S.Kapre	M.E E & TC Appear	Assistant Professor	Optical Fiber Communication	4
22.	Prof.S.L.Nagare	M.E. E & TC Appear	Assistant Professor	PLC	0.5
23.	Prof.G.D.Lodhe	M.E. E & TC	Assistant Professor	Communication	0.5
24.	Prof.S.R.Nibe	M.E. E & TC	Assistant Professor	VLSI	0.4

11. List of senior visiting faculty: 04

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary/adhoc faculty: Nil

13. Student -Teacher Ratio (programme wise):

Academic Year	No. of Students	No. of Existing Faculty	Students Teacher Ratio
2014-2015	360	21	17:1
2013-2014	360	14	26:1
2012-2013	360	13	28:1
2011-2012	360	15	20:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: 06

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.:

UG: 08

PG: 16

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, AICTE, UNIVERSITY, DBT, ICSSR, Foundation, Institute etc. and total grants received : Nil

18. Research Centre /facility recognized by the University: No

19. Publications:

* a) Publication per faculty

* Number of papers published in peer reviewed journals (national /international) by faculty and students

Faculty Publications Students Participation in Conferences:

Year	Faculty Publication	Students Publication
2014-2015	03	16 (NC:16)
2013-2014	16	42 (NC:42)
2012-2013	02	44 (NC:27 + State:17)
2011-2012	03	90 (NC:61+ State:29)

20. Areas of consultancy and income generated: Nil

21. Faculty as members in

a) National committees -Nil b) International Committees-Nil c) Editorial Boards - Nil

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme:

Sr.No.	Academic Year	No of Projects	In house Projects	% In house Projects
1	2011-2012	24	23	95.85%
2	2012-2013	40	39	97.50%
3	2013-2014	37	35	94.60%
4	2014-2015	46	45	97.83%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

Sr.No.	Academic Year	No of Projects	Sponsor Projects	% Sponsor Projects
1	2011-2012	24	01	4.16%
2	2012-2013	40	01	2.50%
3	2013-2014	37	02	5.40%
4	2014-2015	46	01	2.17%

1. Awards / Recognitions received by faculty and students:

- i) Prof. Mrs. S.S. Magar: Lady Engineer Award, by IEI, Ahmednagar Local Center
 ii) Prof. Ms.A.K. Patil: Lady Engineer Award, by IEI, Ahmednagar Local Center

Awards Received by Students

Sr. No.	Name of Student	Competition	Place/ Institute	Award
2014-15	Shubham Lodha	TechnoMania-2015, State Level Technical Quiz	IT Dept, PDVVP, COE, Ahmednagar	First Prize
	Vikas Kumar Rai	SPANDAN	IBMRD, Ahmednagar	First Prize-Quiz
	Vikas Kumar Rai	Group Discussion	E & TC Dept , PDVVP, COE, Ahmednagar	First Prize
	Gore Prajakta	Rhythm-2015	PDVVP, COE, Ahmednagar	Art & Craft Collection, First Prize
2013-14	Vikas Kumar Rai	Two Days National Level Technical Fest	Civil Engg, PREC, Loni	First Prize, Debate Competition

2. List of eminent academicians and scientists / visitors to the department :

- i) Dr.Stefan.Ghaustavson, Director Technology HOGANAS AB, SWEDAN
- ii) Dr Karin Ghaustavson HOGANAS AB, SWEDAN
- iii) Er. Sunil Palande: Scientist-G, VRED, Ahmednagar
- iv) Er. S.V. Londhe: Scientist-D, VRED, Ahmednagar
- v) Er.N.W. Trikhande: Scientist and Additional Director, VRDE, Ahmednagar
- vi) Er. N.V. Kale: Scientist, DRDO, Hyderabad
- vii) Er.Rajesh Beldar: Director, Akashwani, Ahmednagar
- viii) Er. Ajatshatru Somani: General Manager, BSNL, Ahmednagar
- ix) Er. G.R. M. Rao, Scientist E, VRDE, Ahmednagar
- x) Dr. Mohd Hasan, AMU, Aligarh
- xi) Dr S.B.Singh (Additional director VRDE Ahmednagar)
- xii) Vidya chitre,HOD computer Dept Bharti vidhyapith Navi Mumbai
- xiii) Mr.Sunil Nimbalkar,Computer Networking School, Ahmednagar
- xiv) Prof Chinmay Ook,Excel Tech Pune
- xv) SunilTomar, Maintenance manager Tata motors,Pune
- xvi) Avadh singh, Campus Component Pune
- xvii) Sandeep Thange, Krish infotec, Pune
- xviii) Mrs.Savita Kalane, Pune
- xix) Dr Girish Mundada. Head Training & placement PICT Pune.
- xx) Prof.V.S. Dhongade,VACOE A'nagar
- xxi) Prof. Joshi VACOE, A'nagar
- xxii) Prof..Kadu Chatrapati College, Rahuri
- xxiii) Prof. Pawar, Govt Polytechnic, Ahmednagar

25. Seminars/ Conferences/Workshops organized & the source of funding**a) National: Workshop: ROVD-2012**

Academic Year	Workshop/Conference	Source of Funding
2014-2015	Nil	Nil
2013-2014	Nil	Nil
2012-2013	Research Opportunities in VLSI Design-2012	Institute
2011-2012	Nil	Nil

b) International: Nil**26. Student profile programme / course wise:**

Name of the Course/ programme (refer question no. 4)	Applications received	Selected	Pass percentage
2014-2015	134	134	93.28%
2013-2014	106	106	87.73%
2012-2013	67	67	92.53%
2011-2012	49	49	100%

27. Diversity of Students

Name of the Course (E & TC)	% of students from the same state	% of students from other States	% of students from abroad
2014-2015	98%	02%	0%
2013-2014	95.2%	4.8%	0%
2012-2013	96.75%	3.25%	0%
2011-2012	93.4%	6.6%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, TOEFL etc.?

Sr . No	Academic year	Name of exam	No of students appeared	No of students qualified
1	2010-11	TOFEL	68	3
2	2011-12	GATE	77	NIL
3	2012-13	GATE	72	4
4		GMAT	45	1
5	2013-14	GATE	85	1
6	2014-15	GATE	110	2

Student progression

Student progression	Branch	Academic Year			
		2011-2012	2012-2013	2013- 2014	2014-2015
Total Students	E & TC	74	106	110	140
UG to PG	E & TC	04 (5.4%)	07 (6.6%)	08 (7.27%)	Result Waiting
PG to M. Phil.	NA				
Employed	E & TC	23	09	17	27
4. Campus Selection					
5. Other than campus recruitment	E & TC	114	113	112	Result Waiting

30. Details of Infrastructural facilities**a) Library**

Sr. No.	Library Holdings	No. of Titles	No. of Volumes
1	Books	270	439
2	Journals	-	-
3	Magazine	-	125
4	E-resorces	-	45
5	Project Reports	-	227
6	Seminar Reports	-	112
7	Any Other	-	-

b) Internet facility for staff and students

ISP	TATA TELESEVICES LTD
LEASED LINE	32MBPS TOTAL
COMPRESSION RATIO	1:1
WI FI FACILITY	YES
FIREWALL	FOURTY NET
ROUTER	D-LINK
SWITCHES	D-LINK 10/100/1000 (24PORTS)

c) Class rooms with ICT facility

Classrooms are provided with with ICT facility

d) Laboratories

SR NO	Name of Lab	Name of In-charge	Area (sq.mtr)	Cost(Rs)
1	Advance Communication Lab No:108	Mr. S. R. Udawant	81	31,22,567.00
2	Power Electronics Lab No:109	Mr. V. G. Kale	82	25,16,507.75
3	Microwave& Optical Communication I Lab No:110	Ms. J. P. Botkar	72	6,43,594.00
4	Basic Electronics Lab No:122	Ms. P. P. Bhalerao	81	10,39,999.00
5	Digital Electronics Lab No:123	Ms. V. A. Dhawale	80	6,77,467.96.00
6	VLSI Design Lab No:124	Mr. A. R. Landge	80	4,94,5245.00
7	Microcontroller Lab No:125	Mr. C. K. Kalawade	81	18,58,960.00
8	PCB & Project Lab No:126-A	Mr. M. B. Avhad	70	2,63,142.00
9	Computer Lab-I No:126-B	Mrs. A. K. Patil	69	8,80,500.00
10	Computer Lab-II Lab No:126-C	Mr. N. M. Deshpande	51	14,83,778.00

31. Number of students receiving financial assistance from college, university, government or other agencies: No

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Expert Lectures

Sr. No.	Description	Date	Resource Person
1	Expert lecture on Big Data.	03/03/14	Vidya chitre,HOD computer Dept Bharti vidhyapith Navi mumbai
2	Expert lecture on personality development & Electrical drives	17/09/11	Prof.A.B. Chaudary, Department of Electrical, PDVVP, COE, Ahmednagar
3	Expert lecture on Electrical drives	19/09/11	Prof.A.B. Chaudary, Department of Electrical PDVVP, COE, Ahmednagar
4	Expert lecture on Advances in Computer Networking	05/10/11	Mr.Sunil Nimbalkar, Computer Networking School, Ahmednagar

33. Teaching methods adopted to improve student learning: OHP, LCD Projector

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Yes

35. SWOC analysis of the department and Future plans:

A) Strength

1. Technical events (expert lectures, seminar and workshops) are very smoothly organized
2. Staff coordination is very good
3. Academic result is improving
4. Academic is smoothly carried out
5. Understanding the students by counseling and guiding cell is working efficiently.
6. Professional body (EESA) & student's chapter (IEI) are very active.

B) Weaknesses

1. Training and placement need improvement.
2. Industry institute interaction should improve.
3. More resources required for faculty.
4. Research work with presentation and publications is very less.

C) Opportunities

1. Students are given the platform to come on the stage and perform through various departmental activities.
2. To create more job opportunities.
3. Project design and analysis is done by the students under the proper guidance of the staff. This project provides the route towards job opportunities.

D) Challenges

1. To place each and every student in a well known company.
2. To provide all types of resources (advanced and updated).
3. To provide every kind of platform to develop personality of weaker students.
4. To prepare the students for various Govt. exams.

1. Name of the department : DEPARTMENT OF INFORMATION TECHNOLOGY

2. Year of Establishment : 2001

3. Names of Programmes / Courses offered :

Programme of Study	Description
Undergraduate in Information Technology	60 seats from 2001

4. Names of Interdisciplinary courses and the departments/units involved: Nil

5. Annual/ semester/choice based credit system (programme wise) :

Programme of Study	Type of Credit System
Undergraduate in Information Technology	Semester Based

6. Participation of the department in the courses offered by other departments: Nil

7. Courses in collaboration with other universities, industries, foreign institutions : Nil

8. Details of courses/programmes discontinued (if any) with reasons : No

9. Number of Teaching posts

	Sanctioned	Filled
Professors	01	00
Associate Professors	03	01
Asst. Professors	10	11

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
D.A. Vidhate	Ph.D. (pursuing) ME Comp.	Asso. Prof.	Operating System, Machine Learning, Theory of Computation	13
Ms. M.N. Kale	ME IT	Asstt. Prof.	Fundamentals of Programming Lang, Information Security	10
R.G. Raut	MTech Comp.	Asstt. Prof.	Computer Network, Software Architect	9
Ms. A.B. Bavane	MTech Comp.	Asstt. Prof.	Computer Graphics, Object Oriented Prog.	9
G.M. Dahane	MTech Comp.	Asstt. Prof.	Data Structures, Information Retrieval	8
Ms. S.S. Pophale	ME Comp.	Asstt. Prof.	System Software, Database Mgmt System	8
A.A. Pund	ME Comp.	Asstt. Prof.	Distributed System, Neural Network	5
Ms. M.S. Gunjal	ME E&TC	Asstt. Prof.	Digital Electronics, Processor Architecture	5
Ms. J.P. Gaidhani	ME Comp.	Asstt. Prof.	Discrete Structures, Data Mining	4
Ms. P.S. Gayke	MTech IT.	Asstt. Prof.	Human Computer Interaction	3
Ms. Aditi Tripathy	ME Comp.	Asstt. Prof.	Image Processing, Big Data	2
Ms. P.B. Chandgude	ME Comp.	Asstt. Prof.	Fundamentals of Programming Lang	1

11. List of senior visiting faculty: 02

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : Nil

13. Student -Teacher Ratio (programme wise) :

Academic Year	No. of Students	No. of Teachers	Student -Teacher Ratio
2014-2015	180	11	16:1
2013-2014	180	11	16:1
2012-2013	180	10	18:1
2011-2012	180	10	18:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

Programme of Study	Sanctioned	Filled
Academic Support Staff (technical)	--	04

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. :

No of PG Faculty	09
No of UG Faculty	03

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 : 01****18. Research Centre /facility recognized by the University : Nil****19. Publications:**

Name of Faculty	Academic Year															
	2014-2015				2013-2014				2012-2013				2011-2012			
	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C
D.A. Vidhate	3	3	-	-	2	2	-	-	2	1	-	-	1	1	-	-
Ms. M.N. Kale	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
R.G. Raut	1	1	-	-	-	-	-	1	-	-	-	1	-	-	-	1
Ms. A.B. Bavane	-	-	-	1	-	-	-	2	-	-	-	2	-	-	-	1
G.M. Dahane	-	2	-	-	-	2	-	-	-	-	-	3	-	-	-	2
Ms. S.S. Pophale	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	2
A.A. Pund	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-
Ms. M.S. Gunjal	-	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-
Ms. J.P. Gaidhani	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-
Ms. P.S. Gayke	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	2
Ms. Aditi Tripathy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

20. Areas of consultancy and income generated : Nil**21. Faculty as members in****a) National committees b) International Committees c) Editorial Boards....**

Name	LM-IEI	LMCSI	LMISTE	ACM	IEEE
D.A. Vidhate	√	√	√	√	√
Ms. M.N. Kale	√	√	√		
R.G. Raut	√	√	√		
Ms. A.B. Bavane	√	√	√		
G.M. Dahane	√				
Ms. S.S. Pophale	√				
A.A. Pund	√				
Ms. M.S. Gunjal	√				
Ms. J.P. Gaidhani	√				
Ms. P.S. Gayke	√				
Ms. Aditi Tripathy	√				
Ms.					
TOTAL:					

22. Student projects

Academic Year	Percentage of students projects	
	In-house projects	Industry Sponsored Projects
2014-2015	96%	4%
2013-2014	95%	5%
2012-2013	97%	3%
2011-2012	95%	5%

23. Awards / Recognitions received by faculty and students

Prof. D.A Vidhate received Appreciation award from The Institution of Engineers (India) Ahmednagar Local Centre.

24. List of eminent academicians and scientists / visitors to the Department:

1. Dr. A.K. Kureshi, Principal, VACoE Ahmednagar
2. Shrikant Sawant, Boston Computers, Ahmednagar
3. Pankaj Shelar, Accenture Software, Bangalore

25. Seminars/ Conferences/Workshops organized & the source of funding**a) National:**

Academic Year	Workshop/Conference	Source of Funding
2014-2015	02	Institute
2013-2014	02	Institute
2012-2013	01	Institute
2011-2012	02	Institute

b) International: Nil**26. Student profile programme/course wise:**

Name of the Course: Department of Information Technology

Academic Year	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2014-2015	45	45	21	24	--
2013-2014	54	54	22	32	37.25
2012-2013	59	59	30	29	48.21
2011-2012	60	60	37	23	53.44

*M = Male *F = Female

27. Diversity of Students

Name of the Course: Department of Information Technology

Academic Year	% of students from the same state	% of students from other States	% of students from abroad
2014-2015	93.34% (42)	6.66% (3)	--
2013-2014	98.15 % (53)	1.85% (1)	--
2012-2013	96.61 % (57)	3.39% (2)	--
2011-2012	98.34% (59)	1.66% (1)	--

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 in each Academic Year			
	2014-2015	2013-2014	2012-2013	2011-2012
UG to PG	15	05	21	22
PG to M. Phil.	--	--	--	--
PG to Ph.D.	--	--	--	--
Ph.D. to Post-Doctoral	--	--	--	--
Employed	01	07	03	01
• Campus selection	45	34	47	31
• Other than campus recruitment				
Entrepreneurship/ Self-employment	10	05	04	02

30. Details of Infrastructural facilities**a) Library :**

In addition to Central Library department also has departmental library which contains book, ACM & CSI journals, seminar & project reports.

b) Internet facilities for Staff & Students : 32 MBPS Tata Teleservices 1:1 Lease Line**c) Class rooms with ICT facility : 02 nos****d) Laboratories : 08 Nos**

31. Number of students receiving financial assistance from college, university, government or other agencies : 85% of students admitted to the course is getting financial assistance in the form of scholarship/free ship from Government of Maharashtra. Also economically weaker students get benefit of earn & learn scheme.

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts : Department has Information Technology Engineering Students' Association (ITESA) through which various co-curricular and extracurricular activities are being carried out to enhance the technical skill of students.

33. Teaching methods adopted to improve student learning :

OHP, LCD Projectors, NPTEL Video lectures.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities : Students are actively participating in blood donation, tree plantation, donation to orphanage, YIN (Young Inspiration Network), NSS for social activities.

35. SWOC analysis of the department and Future plans

A) Strength

1. Dedicated & devoted staff members.
2. Excellent academic results.
3. Mentoring of every student.
4. Student bodies ITESA & IEI

B) Weaknesses

1. Training and placement
2. Industry institute interaction
3. Research oriented approach

C) Opportunities

1. Students are given the platform to come on the stage and perform through various departmental activities.
2. To create more job opportunities.
3. Project design and analysis is done by the students under the proper guidance of the staff. This project provides the route towards job opportunities.

D) Challenges

1. Placement each student in a renowned company.
2. To provide latest tools & technology training to students.
3. To provide every kind of platform to develop personality of weaker students.
4. To prepare the students for various Govt. exams.

1. **Name of the department:-INSTRUMENTATION & CONTROL**
2. **Year of Establishment:-1996**
3. **Names of Programmes / Courses offered**
Name of the program:-Instrumentation & Control
Course:- UG
4. **Names of Interdisciplinary courses and the departments/units involved :-**
 In addition the faculty from the department of Mechanical& Electrical
5. **Annual/ semester /choice based credit system (programme wise):-Yes**
6. **Participation of the department in the courses offered by other departments:-**
 Nil
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:-**
 Nil
8. **Details of courses/programmes discontinued (if any) with reasons: Less admissions**
9. **Number of Teaching Posts**

Post	Sanctioned	Filled
Professors	01	Nil
Associate Professors	02	02
Asst. Professors	06	06

10. Faculty profile with name, qualification, designation, specialization

Name	Qualification	Designation	Specialization	No. of Years of Experience
Mr. A. R. Laware	(Ph.D. registered) ME Instrumentation	HOD & Associate Professor	Instrumentation & control	14
Mrs. V. S. Dhavane	ME Instrumentation	Associate Professor	Instrumentation & control	17
Mr. S. B. Joshi	M. Tech Instrumentation	Assistant Professor	Instrumentation & control	17
Mr. S. S. Mandhare	B. E. Instrumentation	Assistant Professor	Instrumentation & control	17
Mr. R. L. Khan	B. E. Instrumentation	Assistant Professor	Instrumentation & control	09
Mr. P.S.Dhumal	B. E. Instrumentation	Assistant Professor	Instrumentation & control	08
Mrs. R.S.Gade	B. E. Biomedical	Assistant Professor	Biomedical	07
Mr. R.A. Darandale	M. E. Instrumentation	Assistant Professor	Instrumentation & control	07
Ms. S.A. Wankhade	BE Instrumentation	Assistant Professor 31/07/2009	Instrumentation & control	06

11. List of senior visiting faculty

Name of Staff	Qualification	Year	Subject Taught
Mr. Dighe S. G.	MBA	TE (Instrumentation & Control)	Industrial Management

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary/adhoc faculty: - 00

13. Student -Teacher Ratio (programme wise):- (15:1)

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Name of Tech. Staff	Designation	Date of Joining	Qualification
Mr. K.L. Lavhate	Tech Asst.	23/03/1995	DIEE
Mr. S. M. Vikhe	Tech Asst.	23/03/1995	ITI (Electronics)
Ms.M.H. Darandale	Lab. Asst.	08/08/2000	BE(Electronics)
Mr. R. D. Shinde	Peon	19/08/1993	Second standard

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Name	Qualification	Designation	Specialization	No. of Years of Experience
Mr. A. R. Laware	(Ph.D. registered) ME Instrumentation	HOD & Associate Professor	Ph.D. in Electrical Engg.	14
Mrs. V. S. Dhavane	ME Instrumentation	Associate Professor	Instrumentation & control	17
Mr. S. B. Joshi	M. Tech Instrumentation	Assistant Professor	Instrumentation & control	17
Mr. R.A. Darandale	M. E. Instrumentation	Assistant Professor	Instrumentation & control	07

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, AICTE, UNIVERSITY, DBT, ICSSR, Foundation, Institute etc. and total grants received:- Nil

18. **Research Centre /facility recognized by the University:- Nil**

19. **Publications:**

Sr.No.	Year	Name of Faculty	Paper Publications (National&international journal)
01	2012-13		Nil
02	2013-14	Mr.R.A.Darandale	International Conference on signal processing & communication (spc-2013) Design of model predictive control for temperature process (ISBN-978-93-5107-184-6)
		Mr.A.R.Laware	IJAIM 2013 Real time Temperature control system using PLC&SCADA. (vol.2,issue2,feb2013. ISSN2319-4847)

20. **Areas of consultancy and income generated:- Nil**

21. **Faculty as members in**

a) National committees b) International Committees c) Editorial Boards....
Nil

22. **Student projects**

a) Percentage of students who have done in-house projects including inter departmental/programme:- 50%

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	Year	Name of Faculty & Student/class	Event in which participated	Name of organization/ institute	Prize medal Won
01	2011-12	Jahav Kiran(BE)	PULSE2K	PES COE Aurangbad	1 st prize
		Shantanu baradkar(BE)	PRAGYA	SGGSI COE&Technology	2 nd prize
02	2012-13	Jaideep walte(BE)	EPITOME	COE Kasti	1 st prize
		Jaideep walte(BE)	CHOESION	Vishbharati COE Ahmednagar	1 st prize
		Jaideep walte(BE)	ELOCUTION COMPITATION	P.D.V.V.P.COE Ahmednagar	3 rd prize
03	2013-14	Patro manoj(TE)	Inter colleges sports	Ahmednagar college	Certificate
04	2014-15	Choudhari priyanka(SE)	Inter colleges sports	P.V.P Loni	Trophy&Certificate

24. List of eminent academicians and scientists / visitors to the department:-

Nil

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National - Nil

b) International- Nil

26. Student profile programme / course wise:

Year	Name of the Course/ programme	Applications received	Selected	Enrolled		Pass %
				*M	*F	
2011-12	FE	50	50	37	13	90.16
	SE	72	72	58	14	
	TE	70	70	56	14	
	BE	59	59	47	12	
2012-13	FE	35	35	29	06	91.93
	SE	46	46	33	13	
	TE	64	64	52	12	
	BE	63	63	51	12	
2013-14	FE	22	22	16	06	78.26
	SE	43	43	31	12	
	TE	52	52	41	11	
	BE	65	65	49	16	
2014-15	FE	0		0	0	95%
	SE	68	68	25	13	
	TE	37	37	25	12	
	BE	49	49	34	15	

*M = Male *F = Female

27. Diversity of Students

Year	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2011-12	FE	96%	4%	0%
2012-13	FE	100%	0%	0%
2013-14	FE	100%	0%	0%
2014-15	FE	0%	0%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, TOEFL etc.?

Sr.No.	No. of student	National& state competitive examination Gate
01	01	GATE

29. Student progression

Student progression	Against % enrolled (2011-12)	Against % enrolled (2012-13)	Against % enrolled (2013-14)	Against % enrolled (2014-15)
UG to PG	3%	3%	6%	6%
PG to M. Phil.	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	Nil
Ph	Nil	Nil	Nil	Nil
Employed				
• Campus selection	15%	3%	5%	2%
• Other than campus recruitment	82%	94%	89%	92%
Entrepreneurship/ Self-employment	Nil	Nil	Nil	Nil

30. Details of Infrastructural facilities

a) **Library:- Department has about 350 books in separate section**

b) **Internet facilities for student & staff:- yes**

c) **Total class room:- Three (03)**

d) **Class room with ICT facility:-NA**

e) **laboratories:- 09 laboratories are available**

**31. Number of students receiving financial assistance from college, university, Government or other agencies:-
Nil**

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Expert Lecture:-

Year	Name of event	Target of audience	Resource person invited/involved
2011-12	Communication Protocol	BE Students	Mr.B.J.Parvat
	Temperature Control loop	BE Students	Mr.Deepak Ingole
	Career in instrumentation engineering	TE&BE Students	Mr.Sandeep Thange
	Industrial Building Automation	BE Students	Mr.Prashant Kulkarni
2012-13	PCB designing	TE Students	Mr. S. M. Shirsath
	Fuzzy logic & application	BE Students	Dr. Shradha Ingale
2014-15	Career in instrumentation engineering	TE&BE Students	Mr.Sandeep Thange

Workshop:-

Year	Model Description	Target audience of	Resource person Invited/	Any other contributory
2012-13	A workshop on PLC and SCADA	TE&BE Student	Sandeep Thange	Kirsh infotech Pune
2013-14	A workshop on PLC and SCADA	TE&BE Student	Sandeep Thange	Kirsh infotech Pune
2014-15	A workshop on PLC and SCADA	TE&BE Student	Sandeep Thange	Kirsh infotech Pune

33. Teaching methods adopted to improve student learning

- a. Chalk and Board.
- b. Power Point Presentation
- c. OHP Presentation
- d. Audio-Visual aids (films and videos on subject related topics)
- e. Case Study Method
- f. Group Discussion Method
- g. Co-operative Learning.

34. How does the Participation in Institutional Social Responsibility (ISR) and Extension activities:- Nil**35. SWOC analysis of the department and Future plans**

Strengths: upliftment of the socio-economically weaker students, participation of the Students in inter-collegiate

Competition: Students hardworking nature.

Weakness: Time constraint, Limitation to conduct extension programmes.

Opportunities: To conduct interdisciplinary courses.

Challenges: To increase attendance of students in the evening session.

Future Plan:

- a. Organizing State and National Level Seminars sponsored by UGC.
- b. Organizing National Level Competitions for the evening college.
- c. Conducting more guest lecturers inviting expertise from the Industrial Person.
- d. Giving students experience of small research projects and papers
- e. Shaping a better future for mankind by developing effective and socially responsible individual & organization

Education Based programmes Values and Outcomes

We develop our students differently....

Rationale:

A series of successful cases has proved that Technologists, Administrators and Entrepreneurs can be created by educational endeavours involving teaching, training and counselling through structured interventions. This has also been corroborated by scholars like Prof. Dr. Gaitonde and Dr. D.J. Vaidya and others. The need of the hour, however is to institutionalize technical education on such a wide scale, across colleges that it churns out thousands of trained, well polished and motivated students ready to float their OWN DREAMS with this background. Padmashri Dr. Vithalrao Vikhe Patil Foundation, which has decades of experience in Technical, Administration and Entrepreneurship development for motivating young students to take up their career.

Mission Statement:

The mission of the Faculty of Engineering at Padmashri Dr. Vithalrao Vikhe Patil Foundation's College of Engineering is to educate teachers who will be distinguished by excellence in the knowledge, skills and attitudes to be responsible educators.

Statement of Values:

It reflects in excellent teaching practices. The Faculty of Engineering education is committed to teaching practices that are both engaging and challenging to the students.

Learner-Centred View:

The Faculty of Engineering and Technology supports a learner-centred view of teaching. The teachers have developed an understanding of the perspectives and abilities of the students. Teachers are having best knowledge, skills and a lot of confidence to adapt and develop curriculum to meet specific needs of the student.

Collegiality and Collaboration:

The Faculty of Engineering College places a high value on collegial interaction and collaborative development among faculty, students, support staff and teaching colleagues. Emphasis is placed on the professional, legal and ethical responsibilities of a teacher.

Reflective Practice:

The Faculty of Engineering College believes that educators should participate actively in reflective practice in order to develop new understanding of and skill in teaching. Reflective practice, guided by the principles of self-directed learning and self-evaluation, is believed to be the foundation of continuous professional growth.

Teaching as Problem Solving and Decision Making:

The Faculty of Engineering believes that teaching is an interactive problem solving and decision making process; a dynamic process involving critical thinking through which the student develops knowledge with understanding.

Connecting Theory and Practice:

The faculty of Engineering believes that there must be clearly defined connection between theory with academic disciplines and practice which will include methods for achieving educational ends in context. Responsible Engineers continuously strive to adapt theory to support meaningful learning.

Scholarship and knowledge:

The faculty of Engineering college places a high value on life long learning, curiosity, the love of knowledge and critical disciplines.

Program Outcomes:

To get success in Padmashri Dr. Vithalrao Vikhe Patil Foundation's College of Engineering programs our student must demonstrate Technical and Managerial events.

1] Professional Qualities: An understanding of what it means to be a competent, Ethical, professional teacher and the disposition to adhere to the professional, legal and ethical responsibilities of being a teacher.

2] Background Knowledge: An overall understanding of the content underlying the prescribed curriculum in self contained classrooms, an in-depth understanding of the content in speciality areas related to discipline-based studies, an understanding of the theoretical underpinning of pedagogy, and of the foundations of educational thought in our society with disposition to engage a life long learner in areas of background knowledge relevant to Engg. Education.

3] Capacity to Plan: The capacity to plan sequences of extended Engineering activities to meet students need in a variety of contexts.

4] Capacity To Teach: The capacity to implement successfully extended sequences of learning activities to motivate and engage in physical, creative and intellectual activities.

5] Program Regulations: These apply to Padmashri Dr. Vithalrao Vikhe Patil Foundations College of Engineering teachers education degree (Under Graduate) as well as a degree (Post Graduate) programs.

6] Application Procedures:

a) For the Upper Level Degree Program in Engineering, the applications in the month March- April are accepted of the preceding year. For information concerning applications procedures and deadlines, contact the office or Faculty of Engineering College for the educational programs and selection procedures. Information regarding application procedures and deadlines are available in November of the preceding year.

b) Transcripts showing completion of all requirements must be received in the Registration Centre by 31st May of the year of application.

c) Maximum enrolments have been established therefore Padmashri Dr. Vithalrao Vikhe Patil Foundations college of Engg. Can not guarantee that all qualified candidates will be accepted. Accepted candidates will be notified as early as possible, but the final acceptance may not be until late July.

d) Prospective applicants are encouraged to obtain as an aid to confirming their career choice, volunteer or other experience in working with young people of the age they are proposing to teach. Expressed motivation and demonstrated interest in a teaching career are considered. Prospective students must submit a applicant profile that documents which will cover life experience relevant to teaching as well as field. The applicants profile is an important part of the application. It counts 40% of the selection ranking.

7] Interview requirements:

Those candidates seeking entry to the Faculty of Engineering for the first time and others who are in the Padmashri Dr. Vithalrao Vikhe Patil Foundations College of Engineering. Role call list who may be specifically referred may be interviewed by a committee struck by the Dean for the purpose of judging suitability for the teaching profession. The committee will make a recommendation to the Dean of University. The professional judgement of those conducting the interviews will be deemed sufficient grounds for recommending the acceptance or rejection of an application, or withdrawal from the program. The process used to arrive at a negative recommendation will be reviewed by a committee struck by the Dean of Faculty of Engineering of University advising office.

8] Statement of Suitability to Teach: Suitability to teach will be evaluated in the Padmashri Dr. Vithalrao Vikhe Patil Foundations college of Engineering education program using the following standards on becoming a very good teacher and person suited to teach.

a) Provision of general concept or model of teaching which is useful in describing and analyzing and executing own teaching.

b) It provides with a body knowledge which can be useful throughout teaching career as teacher engage in the description of instructional objectives in the accommodation of the entering capacity and behaviour of individual students and in the assessment of the student performance.

c) It provides a theoretical and factual basis for making teaching decisions which are apart from but not necessarily in consistent with or opposed to teachers performance, intuitions and impression about teaching.

d) It provides some fairly specific guidelines for important teaching functions, such as stating your objectives, analyzing student behaviour, providing the necessary conditions for various types of learning, programming instructional materials, constructing test and interpreting test scores and evaluating research reports.

e) speak and act towards their student with respect and dignity and deal judiciously with them, always mindful of their individual rights and sensibilities.

f) Respect the confidential nature of information connecting students, making it available only to persons or agencies directly concerned with the student's welfare.

g) Recognize that the relationship with students is a privileged one and consistently act accordingly.

h) Demonstrate accountability for the quality of service rendered and of the practices employed in discharging their duties as student teacher through review with colleagues, supervisors, students and their parents/guardians and by conscientiously engaging in learning activities for the purpose of improving practice as a teacher.

i) Direct any criticism of the teaching performance and related work of Engg. College personnel to that person in private and only then after informing the person in writing of the intent to do so may direct in confidence the criticism to appropriate individuals who are able to offer advice and assistance. It shall not be considered a breach of this guideline for a student - teacher to follow legal requirements or official protocol in reporting student protection issues.

j) Recognize that the practical places the student teacher in a privileged position requiring the same standard of behaviour expected of practicing teacher and act in a manner that exemplifies the legal, moral and ethical standards required of practicing, refraining from behaviour in becoming a teacher.

k) Possess an appropriate level of all forms of literacy that impact teaching.

l) Speak and act towards colleagues with respect and dignity and deal judiciously with them, always mindful of their individual rights and sensibilities.

9] **Academic Regulations for the UG and PG Degree Programs:** For the purpose of determining eligibility for a teaching credential, successful completion of the educational program requires ME/M.Tech and Ph.D on respective educational course while enrolled in the teacher education program.

10] **Withdrawal:** The Faculty of College of Engineering reserves the right at any time to require any student to withdraw from the program where it believes on consideration of scholarship, professional fitness or professional conduct that the student is unsuited for teaching profession, unsatisfactory performance in any aspect of the program may be considered reasons to require a student withdraw from the program. If re-admission is approved then required or voluntary withdrawal a practicum and/or the program. student will normally be re-admitted with probationary status.

11] **Notification of Concern for Learning and/or Working Environment:** Successful performance is the result of the happy confluence of external and internal learning conditions. The first defines learning and the learning event. The second and major section defines the basic learning conditions, contiguity, practice, reinforcement generalization and discrimination and punishment. However faculty of engg. is familiar with the connectionist-reinforcement learning theories.