



EVALUATION REPORTS OF THE DEPARTMENTS



3. Evaluative Report of the Civil Engineering Department

1. **Name of the Department:**-Civil Engineering Department.
2. **Year of establishment** : 2009
3. **Is the Department part of a college/Faculty of the university?** Part of PESCOE and Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
4. **Names of programs offered (UG, PG, Pharmacy D, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M./M.Ch., Super specialty fellowship, etc.) ;** -Programmes Offered are:-UG in Civil Engineering, PG - Masters in Structural Engineering (Civil)
5. **Interdisciplinary programs and departments involved:**-Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.** :- nil
7. **Details of programs discontinued, if any, with reasons** :-Not Applicable
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System :-** Two Semester System of Examinations
9. **Participation of the department in the courses offered by other departments:-** First Year of Engineering
10. **Number of teaching posts sanctioned, filled and actual(Professors/Associate Professors/Asst. Professors/others)**

DESIGNATION	Sanctioned	Filled	Actual (including CAS & MPS)
Professors	2	01	01
Associate Professors/ Reader	4	01	01
Assistant Professor	9	8	8
Lecturer	NA	NA	NA
Tutor / Clinical Instructor	NA	NA	NA
Senior Resident	NA	NA	NA



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience(teaching+ Professional)
Dr. A. P. Wadekar	M.E. (Structures) PhD	Principal	High Strength Fiber Reinforced Concrete .	22 Years Teaching
Dr..R.M. Sawant	M.E. (Structures), PhD	Head of Deptt.	High Strength Concrete and Earthquake Engg.structures	17 Years Teaching
Prof.A.W.Yerekar	M.E.(Soil), Pursuing PhD in Structures	Assistant Professor	Structures	18 years teaching +10 years professional
Prof.C.R.Ghushinge	M.E.(Hydrology)	Assistant Professor	Hydrology	7 years teaching+30 years professional
Prof.D.N.Kakde	M.E. (Structures), pursuing PhD	Assistant Professor	Structures	5 years teaching+ years professional
Prof. S.S.Razvi	M.E.(Soil),	Assistant Professor	Soil Engineering	5 years teaching + 6 years professional
Prof.S.B.Dhule	M.E.(Soil),	Assistant Professor	Soil Engineering	8 years teaching
Prof.Sk.S.Fatima	M.E.(WRE)	Assistant Professor	W R Engineering	3 years teaching
Prof.R.D.Pandit	M.E. (Structures), pursuing PhD	Assistant Professor	High Strength Concrete Structures	8 years teaching
Prof.J.R.Gaikwad	M.E. (Structures),	Assistant Professor	Structures	3 years teaching

12. Number of senior adjunct faculty :- 04

13. Percentage of classes taken by temporary faculty – program-wise information

Sr.no	programmes	Number of temporary staff in dept.	Percentage of classes taken by temporary faculty
1	UG	10	90%
2	PG	2	90%



14. Program-wise Student Teacher Ratio: 1:15

Sr.no.	programmes	Number of staff in Deptt.	Total number students in programmes	Ratio (student/Teacher)
1	UG+FE	13	FE(60)+SE(72)+TE(68)+BE(50)=250	1:15
2	PG	3	18	1:12

15. Number of academic supporting staff (technical) and administrative staff: sanctioned, filled and actual

Sr.no.	Name of academic supporting (technical) staff	administrative staff	sanctioned	filled and actual
1	1	0	---	0

16. Research thrust areas as recognized by major funding agencies:-High Strength Fibre Reinforced Concrete And Geopolymer Concrete

17. Number of faculty with ongoing projects from

- a) National---nil
- b) International funding agencies---nil and
- c) Total grants received... nil

Give the names of the funding agencies, project title and grants received project-wise...nil

18. Inter-institutional collaborative projects and associated grants received.....

- a) National collaboration.....nil
- b) International collaborationnil

19. Departmental projects funded by.....

- ICMR;nil
- DST-FIST;...nil
- UGC-SAP/CAS,.....nil
- DPE;...nil
- DBT,nil
- ICSSR, ...nil
- AICTE, ...nil
- TOTAL GRANTS RECEIVED.NIL

20. Research facility / centre :-Research Centre In Civil Engineering Department Established In 2016

- With state recognition.....Affiliated to Dr.B.A.M.U. Aurangabad.
- National recognition.....nil.
- International recognition.....nil.

21. Special research laboratories sponsored by / created by industry or corporate bodies ...NIL

22. Publications:

- * Number of papers published in.....59
- * Peer Reviewed Journals.. 5.
- * National.....Nil
- * International.....15



- * Monographs.....nil.
- * Chapters in Books.....nil.
- * Books edited.....nil
- * Books with ISBN with details of publishers.....nil.
- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO hosts, Medline, etc.).....nil
- * Citation Index – range / average 8
- * SNIP...nil
- * SJR....nil
- * Impact Factor – range / average ...1.3 to 9.1

Sr. No	Author / Co-Author	Title	Name of Journal	Impact Factor	ISSN No
1	Dr A.P.Wadekar	Comparative Evaluation for Experimental and Analytical Mode for Tensile Behavior of High Strength Fibre Reinforced Concrete	American Journal of Engineering Research (AJER)		ISSN : 2320-0847 p-ISSN : 2320-0936
2		Punching Shear Strength of High Strength Fibre Reinforced Concrete Slabs	International Journal of Modern Engineering Research	1.3	ISSN: 2249– 6645
3		Study of High Strength Fibre Reinforced Concrete by using Two Types of Fibres	IJRESTS		
4		Comparative Study in Between Two Types of Fibres for Mechanical Behavior of High Strength	‘International Journal of Recent Technology and Engineering (IJRTE)		ISSN: 2277-3878
5		Comparative Evaluation for Experimental and Analytical Mode for Tensile Behavior of High Strength Fibre Reinforced Concrete	American Journal of Engineering Research (AJER)		ISSN : 2320-0847 p-ISSN : 2320-0936
	R. D. Pandit	Punching Shear Strength of High Strength Fibre	International Journal of Modern Engineering	1.3	ISSN: 2249– 6645



		Reinforced Concrete Slabs	Research		
		Study of High Strength Fibre Reinforced Concrete by using Two Types of Fibres	IJRESTS		
		Comparative Study in Between Two Types of Fibres for Mechanical Behavior of High Strength	'International Journal of Recent Technology and Engineering (IJRTE)		ISSN: 2277-3878
		Comparative Evaluation for Experimental and Analytical Mode for Tensile Behavior of High Strength Fibre Reinforced Concrete	American Journal of Engineering Research (AJER)		ISSN : 2320-0847 p-ISSN : 2320-0936
6	Prof. R.M Sawant	Comprehensive study of high strength fiber RC under pull out strength & under shear	www.iaeme.com/vol.6/issue_1	7.9	
		Comprehensive study of high strength fiber RC	www.iaeme.com/vol.6/issue_4	9.1	
8	3 Prof.S.S.Razvi	Study on stabilization of soil using RBI grade 81	http://ijirae.com/vol.2/issue_5	1.7	ISSN 2349-7009
		"PARTIALLY REPLACEMENT OF CLAY BY S.T.P. SLUDGE IN BRICK MANUFACTURING	Ijirae	3.4	ISSN 2349-2763
9	D.N. Kakde		IJCIET	7.9	

* h-index

23. Details of patents and income generated.....nil.

24. Areas of consultancy and income generated.....Testing of Civil Engineering Materials/Specimens/Soil/Civil Engineering Surveys....income generated.. Rs.25000/-

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad.....02

26. Faculty serving in.....

a) National committees.....nil



- b) International committees.....nil
- c) Editorial Boards.....nil
- d) Any other (specify)..... Board of Studies, Member of paper review Committee, syllabus, of Dr. B.A.M.U.Aurangabad.

27. Faculty recharging strategies....

Refresher / orientation programs..... Staff are sent for STTP's, FDP are arranged in campus.

Workshops, training programs and similar programs..... 21

28. Student projects.....

- Percentage of students who have taken up in-house projects including inter-departmental projects.....100% of B.E.Students
- Percentage of students doing projects in collaboration with other universities / industry / institute.....nil.

29. Awards / recognitions received at the national and international level by

- Faculty.....nil
- Doctoral / post doctoral fellows.....nil
- Students.....nil

30. Seminars/ Conferences/Workshops organized and the source of funding

National.....nil.

International with details of outstanding participants, if any.....nil

31. Code of ethics for research followed by the Departments.....As prescribed by Dr.B.A.M.U. Aurangabad

32. Student profile program-wise:-

Name of the Program	Applications received	Selected		Pass percentage	
				(%)	
		Male	Female	Male	Female
UG (B.E. Civil) 2014-15	40	28	12	95	90
UG (B.E. Civil) 2015-16	46	35	11	100	100
UG (B.E. Civil) 2016-17	59	40	19	-	-
PG(Structures in Civil) 2014-15	18	14	4	-	-
PG(Structures in Civil) 2015-16	18	14	4	-	-
PG(Structures in Civil) 2016-17	13	8	5	-	-



33. Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
UG in Civil Engineering	90%	10%	1%	NIL
PG in Civil Structural Engineering	100%	1%	nil	nil

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise.

NET, nil

SET, GATE - 2%

USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS ...nil

35. Student progression

Student progression	% against enrolled
UG to PG	35%
PG to M.Phil,DM / M Ch / DNB	1%
PG to Ph.D.	nil
Ph.D. to Post-Doctoral	nil
Employed	8%
• Campus selection	40%
• Other than campus recruitment	
Entrepreneurs	10%

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	85%
from other universities within the State	15%
from universities from other States	nil
from universities outside the country	nil

37. Number of faculty who were awarded M.Phil.,DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period 2016-1701

38. Present details of departmental infrastructural facilities with regard to

a) Library247 Books

b) Internet facilities for staff and students - is provided in computer lab for students and staff and on table internet facility is also provided to a few staff members.

c) Total number of class rooms – 5 Nos.

d) Class rooms with ICT facility and ‘smart’ class rooms - 1

e) Students’ laboratories – 11Nos.



f) Research laboratories – 1Nos.

39. List of doctoral, post-doctoral students and Research Associates

a) From the host institution/university - 03

b) From other institutions/universities –02

40. Number of post graduate students getting financial assistance from the university - Nil

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology - yes

42. Does the department obtain feedback from.....

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

- Yes. The feedback are reviewed and the extra lectures for syllabus gaps are arranged. Feedback is also considered while re-structuring the syllabus.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

- These feedback are replied for arranging the trainings for quality improvement and making the arrangements for learning process.

c. Alumni and employers on the programs offered and how does the department utilize the feedback?

Consider this feedback for arranging the lectures for syllabus gaps and also utilize these suggestions while re-structuring the syllabus.

43. List the distinguished alumni of the department (maximum 10)

Sr. No.	Name of Student	Name of Company	Year
1	Sachin Argal	Prothus Engineering Services, Nasik	2012-13
2	Geetanjali Patankar	Prothus Engineering Services, Nasik	2012-13
3	Kalyani Shinde	Prothus Engineering Services, Nasik	2012-13
4	Avnish Waghmare	Prothus Engineering Services, Nasik	2012-13
5	Mahesh Bandul	Prothus Engineering Services, Nasik	2012-13
6	Shafiq Shaikh	Amazon Ltd. Pune	2015-16
7	Gopal Bajaj	Flash Electronics, Pune	2015-16
8	Lamsuk Nongtdu	AGS Transct Technologies, Mumbai	2015-16

44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.

Sr. No.	Date	Name of Expert	Subject
1	31-01-2014	Mr. Ajay Khemnar, Sr. Consultant A'bad	Green Environment
2	23-08-2014	Mr. Ajay Thakur, Sr. Architect A'bad	Aspects of Building Planning
3	20-03-2015	Mr. Ravi Jhilde, Sr.	Concrete Technology



		Manager Dubai	
4	19-09-2015	Mr. Shashank Rajbhoj, Sr. Designer L&T Mumbai	Concepts in Designing Steel Structure
5	05-02-2016	Mr. Kareem Pathan, Structure Designer	Importance of STAD in Civil Engineering
6	01-04-2016	Mr. Raza Khan, Dy Director Town Planning Aurangabad	GIS
7	15-10-2016	Dr. R. M. Damgir, Govt College of Engg. A'bad	Earth quake Resisting Structure

- 45. List the teaching methods adopted by the faculty for different programs including clinical teaching.** : Classroom teaching, Smart classroom teaching.
- 46. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?** Periodic class tests and assessments
- 47. Highlight the participation of students and faculty in extension activities.**
Staff and students are encouraged to participate in different workshops, seminars, conferences etc
- 48. Give details of “beyond syllabus scholarly activities” of the department.**
Adequate industrial visits, site visits are arranged moc interviews are conducted. The TP Cell conducts regular training programmes.
- 49. State whether the program/ department is accredited/ graded by other agencies? If yes, give details.-** No
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.** Different Project works and Dissertations are being taken on new Application based on Basic principles and practical difficulties being experience in execution.
- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the Department.**
Five Major Strengths Of The Department...
- 1) Institute is centrally located
 - 2) Good Academic Reputation
 - 3) Social Ethics such as minimum college fees and favoured by backward and minor communities
 - 4) Good infrastructures and amenities.
 - 5) Well equipped laboratories and Library
- 52. Opportunities And Challenges (Swoc)**
- 1) Student can complete their PG course.
 - 2) Competitive examinations preparation.
 - 3) Being research centre in the department there is scope for research work and



pursuing PhD in Structural Engineering.

- 4) As students are preferring this college for PG course (M.E. Structure), there is scope for starting PG courses in Geo-technical Engineering and Water Resource Engineering.

53. Five Major Weaknesses Of The Department...

- 1) Poor input at entry level. Students admitted with less qualifying marks eg. Less marks in MHTCET, JEE.
- 2) Advance computing systems are required.
- 3) Up gradation of a few equipments is needed.
- 4) More research projects need to be undertaken.
- 5) Consultancy and testing need to be enhanced..

54. Future plans of the Department.

- 1) Department is preparing for starting PG courses in more streams of Civil Engineering like Geo-Technical Engineering and Water Resources Engineering etc.
- 2) Department plans for environmental development in the campus of the PESociety, at Aurangabad.
- 3) Department plans for encouraging Green Engineering techniques in building and construction.



3. Evaluation Report of the Computer Science department

- 1 Name of Department :** Computer Science & Engineering
- 2 Year of Establishment:** 1994
- 3 Is the department part of a college/Faculty of the university:** Yes
- 4 Names of programs offered:** UG (BE Computer Science & Engineering)& PG (Computer Science & Engineering)
- 5 Interdisciplinary programs & departments involved:**
- 6 Courses in collaboration with other universities, industries, foreign institutions**
Spoken Tutorial
NPTEL
Soft Skill & Aptitude- Techrel Pvt. Ltd
Spoken Tutorial - IIT BombaySAP - WYVIL
Systems Inc. Illinois,USA
- 7 Details of program discontinued, if any, with reasons:** NIL
- 8 Examination system:** Semester
- 9 Participation of the department in the courses offered by the other departments:**
- 10 Number of teaching posts sanctioned, filled & actual**

	Sanctioned	Filled	Actual
Professor	2	1	1
Associate Professor/Reader	6	4	4
Assistant Professor	16	18	18
Lecturer	-	-	-
Tutor / Clinical Instructor	-	-	-
Senior Resident	-	-	-



11. Faculty Details 2013-14

Sr No	Name	Qualification	Designation	Specialization	No of yrs of Experience
1	Prof. S. N. Kakarwal	PHD	Professor	CSE	17
2	Prof. V. A. Losarwar	ME	Associate Professor	CSE	17
3	Prof M M Ambekar	ME	Associate Professor	CSE	16
4	Prof S D Pingle	ME	Associate Professor	CSE	14
5	Prof V B Kamble	ME	Associate Professor	CSE	12
6	Prof Y S Pagar	ME	Assistant Professor	CSE	12
7	Prof N S Ujgare	Mtech	Assistant Professor	CSE	6
8	Prof. V. S. Sonawane	BE	Lecturer	CSE	3
9	Prof.A.U.Jadhav	BE	Lecturer	CSE	1
10	Prof.B.M.Kulkarni	BE	Lecturer	IT	1
11	Prof.D.J.Jagtap	BE	Lecturer	CSE	1
12	Prof.K.A.Rode	BE	Lecturer	CSE	0
13	Prof.S.V.Bhosale	BE	Lecturer	CSE	0
14	Prof. S. V. Chowdhary	BE	Lecturer	CSE	1
15	Prof.A.N.Sononi	BE	Lecturer	CSE	0
16	Prof.C.M.Kalda	BE	Lecturer	CSE	0
17	Prof.G.G.Dayalani	BE	Lecturer	CSE	1
18	Prof.M.R.Gunawat	BE	Lecturer	CSE	1
19	Prof.N.P.Deshmukh	BE	Lecturer	CSE	1
20	Prof.P.K.Dhongade	BE	Lecturer	CSE	1
21	Prof.S.S.Deulgaonkar	BE	Lecturer	IT	1
22	Prof.S.R.Vibhute	BE	Lecturer	CSE	1
23	Prof. Vishakha Badjate	BE	Lecturer	CSE	1
24	Prof. Samiksha Pande	BE	Lecturer	CSE	1



Faculty Details 2014-15

	Name	Qualification	Designation	Specialization	No of yrs of Experience
1	Prof S N Kakarwal	PHD	Professor	CSE	18
2	Prof V A Losarwar	ME	Associate Professor	CSE	18
3	Prof M M Ambekar	ME	Associate Professor	CSE	17
4	Prof S D Pingle	ME	Associate Professor	CSE	15
5	Prof V B Kamble	ME	Associate Professor	CSE	13
6	Prof Y S Pagar	ME	Assistant Professor	CSE	13
7	Prof. A U Jadhav	Mtech	Assistant Professor	WT	2.6
8	Prof. N S Syed	ME	Assistant Professor	CSE	1
9	Prof.N R Khatri	ME	Assistant Professor	CSE	0.5
10	Prof. S M Salve	ME	Assistant Professor	CSE	2.5
11	Prof. A R Dhakne	ME	Assistant Professor	CSE	0.3
12	Prof.V S Sonwane	BE	Lecturer	CSE	3
13	Prof.B.M.Kulkarni	BE	Lecturer	IT	2
14	Prof.G.G.Dayalani	BE	Lecturer	CSE	2
15	Prof.M.R.Ghunawat	BE	Lecturer	CSE	2
16	Prof.P.K.Dhongade	BE	Lecturer	CSE	2
17	Prof.K.A.Rode	BE	Lecturer	CSE	2
18	Prof.D.J.Jagtap	BE	Lecturer	CSE	2
19	Prof.S.V.Bhosale	BE	Lecturer	CSE	2
20	Prof.S.S.Deulgaonkar	BE	Lecturer	IT	2
21	Prof.S.V.Chowdhary	BE	Lecturer	CSE	2
22	Prof.S.R.Vibhute	BE	Lecturer	CSE	2
23	Prof. Y. E. Gaikwad	BE	Lecturer	CSE	0
24	Prof. N. S. Pathan	BE	Lecturer	CSE	0



**Faculty Details
2015 16**

Sr No	Name	Qualification	Designation	Specialization	No of yrs of Experience
1	Dr S N Kakarwal	Phd	Professor	CSE	19
2	Prof. V.A. Losarwar	ME	Asso. Professor	CSE	19
3	Prof. M.M. Ambekar	ME	Asso. Professor	CSE	18
4	Prof. S.D. Pingle	ME	Asso. Professor	CSE	16
5	Pro. V.B. Kamble	ME	Asso. Professor	CSE	15
6	Prof. Y.S. Pagar	ME	Asst. Professor	CSE	14
7	Prof V R Mote	ME	Asst. Professor	CSE	14
8	Prof V D Jadhav	ME	Asst. Professor	CSE	10
9	Prof D T Rathod	ME	Asst. Professor	CSE	11
10	Prof B N Jha	ME	Asst. Professor	SE	3.6
11	Prof K R Dabhade	ME	Asst. Professor	CSE	3.6
12	Prof. A.U.Jadhav	M.Tech	Asst. Professor	WT	3.6
13	Prof A V Turukmane	ME	Asst. Professor	CSE	4
14	Prof. S.V.Bhosale	ME	Asst. Professor	CSE	3
15	Prof N S Syed	ME	Asst. Professor	CSE	1.2
16	Prof P M Kadhav	ME	Asst. Professor	CSE	3
17	Prof. S.M.Salve	ME	Asst. Professor	CSE	2.5
18	Prof. N.R. Khatri	ME	Asst. Professor	CSE	1



19	Prof B M Kulkarni	ME	Asst. Professor	CSE	2.5
20	Prof V V Saswade	ME	Asst. Professor	CSE	0
21	Prof G R Gaud	Mtech	Asst. Professor	CSE	0
22	Prof. S N Madavi	Mtech	Asst. Professor	IT	0
23	Prof A S Gadekar	ME	Asst. Professor	CSE	0
24	Prof R H Jadhav	ME	Asst. Professor	CSE	0
25	Prof. Vikas Katakdaund	ME (Appearing)	Lecturer	CSE	1
26	Prof P Patni	ME (Appearing)	Lecturer	CSE	2
27	Prof G G Dayalani	ME (Appearing)	Lecturer	CSE	2.5
28	Prof K Kanade	ME (Appearing)	Lecturer	CSE	2.5

Faculty Details 2016-17

Sr No	Name	Qualification	Designation	Specialization	No of yrs of Experience
1	Dr S N Kakarwal	Phd	Professor	CSE	20
2	Prof V A Losarwar	ME	Asso. Professor	CSE	20
3	Prof M M Ambekar	ME	Asso. Professor	CSE	19
4	Prof S D Pingle	ME	Asso. Professor	CSE	17
5	Prof V B Kamble	ME	Asso. Professor	CSE	16
6	Prof Y S Pagar	ME	Asst. Professor	CSE	15
7	Prof V R Mote	ME	Asst. Professor	CSE	15
8	Prof V D Jadhav	ME	Asst. Professor	CSE	11



9	Prof D T Rathod	ME	Asst. Professor	CSE	12
10	Prof B N Jha	ME	Asst. Professor	SE	4.6
11	Prof K R Dabhade	ME	Asst. Professor	CSE	4.6
12	Prof. A.U.Jadhav	M.Tech	Asst. Professor	WT	4.6
13	Prof A V Turukmane	ME	Asst. Professor	CSE	5
14	Prof. S.V.Bhosale	ME	Asst. Professor	CSE	3
15	Prof N S Syed	ME	Asst. Professor	CSE	2.2
16	Prof P M Kadhav	ME	Asst. Professor	CSE	4
17	Prof. S.M.Salve	ME	Asst. Professor	CSE	3.5
18	Prof. N.R. Khatri	ME	Asst. Professor	CSE	2
19	Prof B M Kulkarni	ME	Asst. Professor	CSE	3.5
20	Prof V V Saswade	ME	Asst. Professor	CSE	1
21	Prof G R Gaud	Mtech	Asst. Professor	CSE	1
22	Prof A S Gadekar	ME	Asst. Professor	CSE	0.6
23	Prof R H Jadhav	ME	Asst. Professor	CSE	0.6
24	Prof. Vikas Katakdaund	ME (Appearing)	Lecturer	CSE	2
25	Prof P Patni	ME (Appearing)	Lecturer	CSE	2
26	Prof G G Dayalani	ME (Appearing)	Lecturer	CSE	3.5
27	Prof K Kanade	ME (Appearing)	Lecturer	CSE	3.5

12.Number of senior adjunct faculty, :- 03



13. Percentage of classes taken by temporary faculty – program-wise information.

Sr. No	Name of Faculty	Year	Program [CSE/ IT]	Class	Subject	% of lecture engaged
1	Prof. B.N.Jha	2013-14	IT	SE BE	DE BP	}100%
		2014-15	IT	SE BE TE BE	DE DWDM STQA CSSL	}100%
		2015-16	IT	TE BE TE BE	PIJ E-BUSS STQA BDA	80% 80% 100% 100%
2	Prof. A.U Jadhav	2013-14	CSE	SE	MP	100%
		2014-15	CSE	TE BE	Adv JAVA CC	}100%
		2015-16	CSE	BE SE FE TE	CC OOPS C PIJ	}100%
3	Prof.K.R. Dabhade	2013-14	IT	BE SE	WIS	93.00%
		2014-15	IT	TE	OS, ADV JAVA	}100%
		2015-16	IT	BE	CSSL	100.00%
4	Prof.B.M. Kulkarni	2013-14	CSE	SE BE FE	DS EIS C	100% 98% 100%
		2014-15	CSE	SE TE	DS STQA	}100%
		2015-16	CSE	TE TE	AJ AJ(IT)	}100%
5	Prof.N.S.Syed	2014-15	CSE	SE TE	CN-I DAA	}100%



		2015-16	CSE	SE SE TE SE	CN-I DS CN-II OSL	100% 98% 100% 95%
6	Prof.P.M.Kad hav	2014-15	IT	SE SE BE BE	IWP OOPS OOAM MOC	100% 90% 100% 90%
		2015-16	IT	TE BE	DBMS OOAM	90% 100%
7	Prof.N.R.Khatr i	2014-15	CSE	SE TE	MP SDL-II	}100%
		2015-16	CSE	SE TE SE	USP OSL MP	90% 100% 100%
8	Prof.S.M.Salve	2014-15	CSE	SE	OOPS	100.00%
		2015-16	CSE	TE SE SE	DBMS IWP CG	}100%
9	Prof.S.V.Bhosl e	2013-14	CSE	BE TE	AA DAA	}100%
		2014-15	CSE	TE SE	PIJ OSL	}100%
		2015-16	CSE	TE SE TE SE	PIJ SDL-I CPP SDL-II	}100%
10	Prof.S.M.Mad avi	2015-16	CSE/IT	TE, BE BE(CS E), TE(IT)	DIP, DWDM DMS DAA	100% 80% 90%



Sr.No	Name of Faculty	Year	Program [CSE/IT]	Class	Subject	% of lecture engaged
11	Prof.A.V. Turukmane	2015-16	CSE	BE ME TE BE ME	PDC SDL-I DBMS MOC SDL-II	} 100%
12	Prof.V.V. Saswade	2015-16	CSE	SE TE	MP STQA	90% 100%
13	Prof.V.S. Katakdound	2014-15	CSE	SE	DMS	100.00%
		2015-16	CSE	SE TE BE	DMS SE PCD	} 100%
14	Prof.G.R.Gaud	2015-16	CSE	TE BE TE SE	OS VM TOC CS	} 100%
15	Prof.A.S.Gadekar	2015-16	CSE/ IT	TE BE	TOC GIT	90% 100%
16	Prof.R.H.Jadhav	2015-16	CSE	BE SE	SOC OSL	} 100%
17	Prof. V. S. Sonawane	2013-14	CSE	SE,TE,FE	IWP,DS,CN-II,EECE	} 100%
		2014-15	CSE	SE,BE,TE,FE	DS,VM,CN-II,FE	} 100%
18	Prof. S. R. Vibhute	2013-14	CSE	BE,TE,BE	AA,PIJ,MOC	} 90%
		2014-15	CSE	SE,SE,TE,TE	OOPS,OOPS, DBMS,DBMS	} 100%
		2015-16	CSE			
19	Prof. G. G. Dayalani	2013-14	CSE	FE, BE,BE(A+B)	C,MOC,IMS	} 100%
		2014-15	CSE	TE,TE,BE	SE,DBMS,MO C	} 90%
		2015-16	CSE			
20	Prof. S. V. Choudhary	2013-14	CSE	BE,TE,BE, TE	PECS,SDL-I,SC,SDL-II,	} 100%
		2014-15	CSE	BE,TE	SC,SDL-I	} 100%
		2015-16	CSE			



Sr.No	Name of Faculty	Year	Program [CSE/IT]	Class	Subject	% of lecture engaged
21	Prof. M. R. Ghunawat	2013-14	CSE	TE,SE	TOC,OOPS	
		2014-15	CSE	BE,TE,FE,SE	POCD,TOC,CE, CG	80% 100% 100%
		2015-16	CSE			
22	Prof. D. J. Jagtap	2013-14	CSE	SE,SE,TE,TE	USP,OSL,ASP.NET	100%, 90% 100%
		2014-15	CSE	SE,SE	CG,USP	100% 100%
		2015-16	CSE			
23	Prof. Y.E.Gaikwad	2013-14	CSE			
		2014-15	CSE	SE,TE,BE, BE	MP,SDL-II,DWDM,PDC	80% 80% 100%
24	Prof. S.S Deulgaonkar	2013-14	CSE	SE(A),SE(B) BE,BE,TE	DMS,DMS, PECS,EIS,STQA	80%,90% 100%, 80%, 80%
		2014-15	CSE	TE(A) TE(B)	DIP DIP	}100%
25	Prof.K.A.Rode	2013-14	CSE	BE TE	AP CS-II	100.00%
		2014-15	CSE	TE	OS	100.00%
26	Prof.V.S.Badjate	2014-15	CSE	SE	OSL	90.00%
27	Prof.Noman Pathan	2014-15	CSE	BE TE	PDC OS	100.00%
28	Prof.P.K.Dhongade	2013-14	CSE	BE SE	AJ MP	100.00%
		2014-15	CSE	SE BE SE	IWP VM MP	100.00%



29	Prof.A.N.Sononi	2013-14	CSE	BE FE	SC CE	80% 100%
30	Prof.C.M.Kalda	2013-14	CSE	SE,TE,BE,TE	CN- I,PIJ,POCD, DIP	100.00%
31	Prof.Samiksha Pandey	2013-14	CSE	SE	CS	100.00%
32	Prof.S.M.Jaiswal	2013-14	IT	TE BE	PECS, OOAD	90% 100%
33	Prof.P.P.Chouthmal	2013-14	IT	SE BE	SE DWDM	100.00%
		2014-15	IT	BE TE	DWDM TOC	100.00%
34	Prof.P.D.Patni	2013-14	IT	TE SE SE	DBMS DMS CS	100.00%
		2014-15	IT	TE	DBMS	100.00%
35	Prof.K.T.Kanade	2013-14	IT	TE TE	MMC CS	100.00%
		2014-15	IT	TE SE BE BE	MMC CG DWDM MOC	} 100%



Sr.No	Name of Faculty	Year	Program [CSE/ IT]	Class	Subject	% of lecture engaged
36	Pof.N.P.Jadhav	2013-14	IT	TE TE BE BE	SDL-I ANDROID CC DWDM	100.00%
		2014-15	IT	TE TE BE BE	SDL-I ANDROID CC DWDM	100.00%
		2015-16	IT	BE	DWDM	100.00%
37	Prof.D.B.Gaikwad	2013-14	IT	BE	MOC	100.00%
38	Prof.S.A.Avhad	2013-14	IT	TE BE	STQA DWDM	100.00%
39	Prof.S.D.Raverkar	2013-14	IT	SE SE BE	USP IWP E-BUSS	}100%
		2014-15	IT	FE-E FE-F TE SE	CE CE TOC MP	}100%

14. Program-wise Student Teacher Ratio. 1:15

Sr.No	Year	Sem	No.of Staff	No. of Student	Student Teacher Ratio
1	2013-14	Sem I	22	360	1:4:17
2	2013-14	Sem II	20	360	1:4:15
3	2014-15	Sem I	22	360	1:4:17
4	2014-15	Sem II	20	360	1:4:15
5	2015-16	Sem I	17	360	1:4:12
6	2015-16	Sem II	18	360	1:4:13



15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : 01

16. Research thrust areas as recognized by major funding agencies

Following are the research thrust areas

- A. Computer Networks
- B. Database Systems
- C. Software Engineering
- D. Operating Systems
- E. Image Processing
- F. Pattern Recognition
- G. Machine Learning

Applied for following funding agencies

1. Prepared MODROB Research Lab Proposal

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Applied for following funding agencies

- Prepared MODROB Research Lab Proposal

18. Inter-institutional collaborative projects and associated grants received

c) National collaboration b) International collaboration

1. International level collaboration WYVIL Systems Inc. Illinois, USA. [1-01-2014]
2. National level collaboration with Findability Solution, Aurangabad. [29-09-2015]

19. Departmental projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : NIL

20. Research facility / centre with

- **State recognition:** Applied for Research Center in the year 2016.
- **national recognition**
- **international recognition**

21. Special research laboratories sponsored by / created by industry or corporate bodies : NIL

22. Publications:

- * **Number of papers published in peer reviewed journals (national / international)**
- * **Monographs**
- * **Chapters in Books**
- * **Books edited**

* **Books with ISBN with details of publishers**



S r . N o	Name of Staff	Number of papers published in peer reviewed journals (national / international)	Chapters in Books	Books edited	Books with ISBN with details of publishers	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Social Sciences Directory, EBSCO host, Medline, etc.)	Citation Index – range / average	Impact Factor – range / average	h-index	S N I P	S J R
1	Dr.S. N. Kakarwal	2013-14: 02			2015-16: 02 Lambert Publisher 1)978-3-69-82032-8 2)978-3-659-82457-9	DOAJ	50 (2016)	1.386 to 2.24 2.24 to 2.65	4 (2016)		
		2014-15:03				Google Scholar					
		2015-16:03				Thomson Reuters, Scopus					
2	Prof. V.A. Losarwar	2013-14:									
		2014-15:									
		2015-16:03				Scopus		2.11 to 5.14			
3	Prof. M.M. Ambekar	2013-14:									
		2014-15: 01									
		2015-16: 02						2.654, 4.226			
4	Prof.S. D.Pingle	2013-14:									
		2014-15: 01									
		2015-16: 02						5.169, 5.169			
S r . N o	Name of Staff	Number of papers published in peer reviewed journals (national / international)	Chapters in Books	Books edited	Books with ISBN with details of publishers	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)	Citation Index – range / average	Impact Factor – range / average	h-index	S N I P	S J R



5	Prof. V.B.K amble	2013-14:									
		2014-15: 01						2.66			
		2015-16: 02						2.265, 2.66			
6	Prof. Y .S.Pagar	2013-14: 02									
		2014-15: 01						4.2			
		2015-16: 05						3.495 to 5.611			
7	Prof. V .R.Mote	2013-14: 01									
		2014-15:									
		2015-16: 05						2.4			
8	Prof. V .D.Jadhav	2013-14:									
		2014-15: 01									
		2015-16: 04						2.776, 5.663			



Sr. No	Name of Staff	Number of papers published in peer reviewed journals (national / international)	Chapters in Books	Books edited	Books with ISBN with details of publishers	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)	Citation Index – range / average	Impact Factor – range / average	h-index	S N I P	S J R
9	Prof.D.T.Ratnod	2013-14: 00									
		2014-15:									
		2015-16:									
10	Prof.B.N.Jha	2013-14: 00									
		2014-15: 00									
		2015-16: 01									
11	Prof.A.U.Jadhav	2013-14: 02						2.00,2.07			
		2014-15: 00									
		2015-16: 01						5.169			
12	Prof.S.V.Bhosle	2013-14:									
		2014-15: 02						3.32			
		2015-16:									
		2014-15: 02							3.32		
		2015-16:									



Sr. No	Name of Staff	Number of papers published in peer reviewed journals (national / international)	Chapters in Books	Books edited	Books with ISBN with details of publishers	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)	Citation Index – range / average	Impact Factor – range / average	h-index	S N I P	S J R
13	Prof.K.R. Dabhade	2013-14: 01						0.6			
		2014-15: 02						1.6			
		2015-16: 01						3.16			
14	Prof.N.S.Syed	2013-14: 02						1.89,3.03			
		2014-15: 02						3.169,3.8			
		2015-16: 01			2015-16 ISBN:978-3-659-77160-6 Lambert Publisher			3.86			
15	Prof.P.M.Kadhav	2013-14: 01						1.674			
		2014-15: 01						2.196			
		2015-16: 02						2.07,3.274			
16	Prof.N.R.Khatri	2013-14: 01						3.4			
		2014-15:									
		2015-16: 01						3.678			
17	Prof.S.M.Salve	2013-14: 01						4.29			
		2014-15:									
		2015-16: 01						4.45			



S r · N o	Name of Staff	Number of papers published in peer reviewed journals (national / international)	Chapters in Books	Books edited	Books with ISBN with details of publishers	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)	Citation Index – range / average	Impact Factor – range / average	h-index	S N I P	S J R
18	Prof.V.S. Katakound	2013-14: 00									
		2014-15: 00									
		2015-16: 01						3.3			
19	Prof.A.V. Turukmane	2013-14: 02						1.90, 2.80			
		2014-15: 04						2.90 to 4.226			
		2015-16: 04						3.20 to 4.226			
20	Prof.V.V. Saswade	2013-14: 02									
		2014-15: 01									
		2015-16:									
21	Prof.G.R.Gaud	2013-14:									
		2014-15: 01						3.59			
		2015-16: 01						3.495			
22	Prof.B.M. Kulkarni	2013-14:									
		2014-15: 01						3.02			
		2015-16: 02						5.169			
23	Prof.A.S.Gadkar	2013-14: 01						1.38			
		2014-15: 02						2.38 to 3.276			
		2015-16: 02						2.39 to 5.332			
24	Prof.R.H.Jadhav	2013-14:									
		2014-15: 02						0.652, 0.478			
		2015-16:									



- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)
- * Citation Index – range / average
- * SNIP
- * SJR
- * Impact Factor – range / average
- * h-index
- *

23. Details of patents and income generated: NIL

24. Areas of consultancy and income generated:

Sr.No.	Title of Consultancy Projects	Funding Agency	Amount	Year
1	Conducted MIDC Online Exam	MKCL	25,200/-	2014-15 (30/11/2014)
2	Conducted MIDC Online Exam	MKCL	16,800/-	2014-15 (07/12/2014)
3	GPAT Online Exam		14,700/-	2015-16 (17/01/2016)

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

Sr. No	Name of Faculty	Selected As	Nationally /Internationally to visit other laboratories / Institutions / Industries in India and abroad
1	Dr S.N.kakkarwal	Member	LIC Committee Member at MIT College Aurangabad
2	Dr S.N.kakkarwal	Member	LIC Committee Member at Maulana Azad Art Science & Commerce College, Aurangabad
3	Dr S.N.kakkarwal	External Examiner for ME Computer Engineering Students	Amrutvahini College of Engineering
4	Dr S.N.kakkarwal	External Examiner for ME Computer Engineering Students	Kashibai Navale College of Engineering Lonavala
5	Dr S.N.kakkarwal	Paper Assessment	SRTM University
6	Prof. V.A.Losarwar	Paper Assessment	SRTM University
7	Prof. M. M. Ambekar	Chairman	LIC Committee Chairman at Vivekand Institute of advance study in management and communication, Aurangabad



8	Prof. M. M. Ambekar	Member	LIC Committee Member at Maulana Azad Art Science & Commerce College, Aurangabad
9	Prof. M. M. Ambekar	Paper Assessment	SRTM University
10	Prof. S.D. Pingle	Member	LIC Committee Member at Vivekanand College of Management, Aurangabad
11	Prof. V.B. Kamble	Subject Incharge	Board of Studies for PCD Subject Incharge
12	Prof. Y. S. Pagar	Paper Assessment	SRTM University
13	Prof. Y. S. Pagar	Researcher	SGGS COE Nanded
14	Prof. V. R. Mote	Member	LIC Committee Member
15	Prof. V. R. Mote	Paper Assessment	SRTM University
16	Prof. V. D. Jadhav	SAP Trainer	Wyvil System Inc, USA
17	Prof. D. T. Rathod	Researcher	SGGS COE Nanded

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (specify)

a) National committees /conferences/Boards

Sr.No	Name of Faculty	Members in National committees /conferences/Boards	Designation
1	Dr. S.N.kakkarwal	Computer Society of India	Lifetime Member
2	Dr. S.N.kakkarwal	Indian Society of Technial Education	Lifetime Member
3	Dr. S.N.kakkarwal	Institute of Electronics and Telecommunication Engineers	Lifetime Member
4	Prof. V. A.Losarwar	Computer Society of India	Lifetime Member
5	Prof. V. A.Losarwar	Indian Society of Technial Education	Lifetime Member
6	Prof. M. M. Ambekar	Indian Society of Technial Education	Lifetime Member
7	Prof. M. M. Ambekar	Institute of Electronics and Telecommunication Engineers	Lifetime Member
8	Prof. S.D. Pingle	Indian Society of Technial Education	Lifetime Member
9	Prof. V.B. Kamble	Indian Society of Technial Education	Lifetime Member



10	Prof. Y. S. Pagar	Indian Society of Technial Education	Lifetime Member
11	Prof. Y. S. Pagar	Institute of Electronics and Telecommunication Engineers	Lifetime Member
12	Prof. V. R. Mote	Computer Society of India	Lifetime Member
13	Prof. V. R. Mote	Indian Society of Technial Education	Lifetime Member
14	Prof. V. R. Mote	Institute of Electronics and Telecommunication Engineers	Lifetime Member
15	Prof. V. D. Jadhav		Lifetime Member
16	Prof. D. T. Rathod	Computer Society of India	Lifetime Member
17	Prof. D. T. Rathod	Indian Society of Technial Education	Lifetime Member
18	Prof. D. T. Rathod	Institute of Electronics and Telecommunication Engineers	Lifetime Member
19	Prof. N.R.Khatri	Indian Society of Technial Education	Lifetime Member

Sr. No.	Name of Faculty	Members in International Committees/ conferences/Boards	Designation
1	Dr. S.N.kakkarwal	Institute of Electrical and Electronics Engineers	Member
2	Dr. S.N.kakkarwal	International Conferance on Nanostructured Materials and Nanocompsites 2014	Chair Session
3	Prof. Y. S. Pagar	BVICAM Dehli, Indicom 2016	Chair Session
4	Prof. V. R. Mote	BVICAM Dehli, Indicom 2017	Chair Session
5	Prof. D. T. Rathod	Institute of Electrical and Electronics Engineers	Member
	Prof. A.V.Turukmane	Intionational Society for Research & Developement	Lifetime Member
6	Prof. A. S. Gadekar	Computer Science Teacher Association	Lifetime Member
7	Prof. A. S. Gadekar	Intionational Association of Engineers	Lifetime Member
8	Prof. A. S. Gadekar	Institute of Electrical and Electronics Engineers	Member
9	Prof. R. H Jadhav	Institute of Electrical and Electronics Engineers	Member



**c) Editorial
Boards/Reviewer**

Sr. No	Name of Faculty	Members in Editorial Boards/Reviewer	Designation
1	Dr. S.N.kakkarwal	Bio-Infomatic Journals	Editorial Board
2	Dr. S.N.kakkarwal	International Conference on Internet of Things, Nect Generation Network & Cloud Computing 2016	Reviewer

27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).

SR. NO	ACADA MIC YEAR	FACULTY NAME	PROGRAM TYPE	PROGRAM NAME	NO.OF DAYS	ORGANISED BY
1	2013-2014	Prof. V. A. Losarwar	Workshop	e-governance workshop	1 day	Dr.B.A.M.U and director of IT, Govt of Maharashtra
2	2013-2014	Prof. M. M. Ambekar	Workshop	workshop on E - Governance	1 day	Dr. B.A. M. University
3	2013-2014	Prof. M. M. Ambekar	Workshop	STTP on data mining -A research oriented Approach	1 week	Dept of CSE,PESCOE ,Abad
4	2013-2014	Prof. M. M. Ambekar	Workshop	Workshop on network security	2 days	DIEMS, Abad
5	2013-2014	Prof. M. M. Ambekar	Workshop	National workshop on microwave remote sensing	3 days	Shrinivasa Ramanujan Geospatial chair, Dept of CSE & IT, BAMU
6	2013-2014	Prof. M. M. Ambekar	Workshop	vyakhyan on women harassment prevention at workplace	1 day	BAMU



7	2013-2014	Prof. S. D. Pingle	Workshop	e-governance workshop	1 day	Dr.B.A.M.U and director of IT,Govt of Maharashtra
8	2013-2014	Prof. S. D. Pingle	Workshop	STTP on data mining -A research oriented Approach	1 week	Dept of CSE,PESCOE ,Abad
9	2013-2014	Prof. Y. S. Pagar	Workshop	A one day syllabus workshop [TE CSE/IT]		Dept. of IT P.E.S.COE ,Aurangabad
10	2013-2014	Prof. Y. S. Pagar	Workshop	Security Challenges in Computer Science		Dr. B.A. M. University in association with DIT (Govt. Of Maharashtra)
11	2013-2014	Prof. Y. S. Pagar	Workshop	'Nextgen Computing		S.G.G.S. I.E. & T, Nanded.
12	2013-2014	Prof. Y. S. Pagar	Workshop	Workshop on introduction to research methodologies	10 days	IIT Bombay
13	2013-2014	Prof. Y. S. Pagar	STTP	STTP on data mining -A research oriented Approach	1 week	Dept of CSE,PESCOE ,Abad
14	2013-2014	Prof. Y. S. Pagar	STTP	STTP on Big Data Analytics	1 week	Dept of IT,PES,Abad
15	2013-2014	Prof. Y. S. Pagar	Workshop	Security challenges in Computer Science	1 week	S.G.G.S. I.E & T,Nanded
16	2013-2014	Prof. Y. S. Pagar	Workshop	Summer Coursework	9 days	
17	2013-2014	Prof. Y. S. Pagar	Workshop	e-governance workshop	1 day	Dr.B.A.M.U and director of IT,Govt of Maharashtra



18	2013-2014	Prof. Y. S. Pagar	STTP	STTP on data mining -A research oriented Approach	1 week	Dept of CSE,PESCOE ,Abad
19	2013-2014	Prof. Y. S. Pagar	Workshop	Workshop on Free and Open Source Software	2 days	Dept Of IT,PESCOE
20	2013-2014	Prof. Y. S. Pagar	Workshop	Workshop on Network Security	2 days	Dept of CSE,DIEMS, Abad
21	2013-2014	Prof. Y. S. Pagar	Workshop	Workshop on network simulator	2 days	CSI,PESCOE
22	2013-2014	Prof. Y. S. Pagar	Workshop	IT2020 Technology Conference	2 days	
23	2013-2014	Prof. A. U. Jadhav	Workshop	Faculty & Content Development	3 days	M.I.T,Aurang abad.
24	2013-2014	Prof. A. U. Jadhav	Workshop	IETE Sponsored Workshop on Big data	1 week	PECSOE,Abad
25	2013-2014	Prof. G. G. Dayalani	Workshop	STTP on data mining -A research oriented Approach	1 week	Dept of CSE,PESCOE ,Abad
26	2013-2014	Prof. M. R. Ghunawat	Workshop	Workshop on network security	2 days	DIEMS,Abad
27	2013-2014	Prof. M. R. Ghunawat	Workshop	STTP on data mining -A research oriented Approach	1 week	Dept of CSE,PESCOE ,Abad
28	2013-2014	Prof. B. M. Kulkarni	Workshop	Workshop on Network Security	2 days	Dept of CSE,DIEMS, Abad
29	2013-2014	Prof. B. M. Kulkarni	Workshop	STTP on data mining -A research oriented Approach	1 week	Dept of CSE,PESCOE ,Abad
30	2014-15	Prof S N Kakarwal	Workshop	Hadoop Framework	1 day	PESCOE, Abad



31	2014-15	Prof S N Kakarwal	Works hop	Robotics & automation	1 week	PESCOE, Abad
32	2014-15	Prof Vijayshri A. Losarwar	Works hop	Java	1	PESCOE, Abad
33	2014-15	Prof Vijayshri A. Losarwar	Works hop	Hadoop Framework	1 day	PESCOE, Abad
34	2014-15	Prof Vijayshri A. Losarwar	Works hop	Android Apps Development	2 days	PESCOE, Abad
35	2014-15	Prof Vijayshri A. Losarwar	Works hop	Robotics & automation	1 week	PESCOE, Abad
36	2014-15	Prof Vijayshri A. Losarwar	Works hop	Big Data Analytics	1 week	PESCOE, Abad
37	2014-15	Prof Vijayshri A. Losarwar	Works hop	Recent Trends in IT	2 days	Abad
38	2014-15	Prof Manisha M. Ambekar	Works hop	Problem Solving Techniques	1 day	PESCOE, Abad
39	2014-15	Prof Manisha M. Ambekar	Works hop	Robotics & automation	1 week	PESCOE, Abad
40	2014-15	Prof Manisha M. Ambekar	Works hop	E education & Research	2 days	Dr BAMU, Abad
41	2014-15	Prof Manisha M. Ambekar	Works hop	Big Data Analytics	1 week	PESCOE, Abad
42	2014-15	Prof. M. M. Ambekar	Works hop	Problem solving Techniques	1 day	CMIA, Abad
43	2014-15	Prof. M. M. Ambekar	Works hop	STTP on Big Data Analytics	1 week	Dept of IT, PES, Abad
44	2014-15	Prof. M. M. Ambekar	Works hop	National workshop on e-education and research	2 days	Dept of education, DR. B.A.M.U , Abad
45	2014-15	Prof. M. M. Ambekar	Works hop	In House Faculty Development Program	3 days	Dept of CSE, PESCOE , Abad
46	2014-15	Prof. M. M. Ambekar	Works hop	Problem Solving Techniques	1	PESCOE, Abad
47	2014-15	Prof S D Pingle	Works hop	Robotics & automation	1 week	PESCOE, Abad



48	2014-15	Prof S D Pingle	Works hop	Big Data Analytics	1 week	PESCOE, Abad
49	2014-15	Prof V B Kamble	Works hop	Robotics & automation	1 week	PESCOE, Abad
50	2014-15	Prof V B Kamble	Works hop	Big Data Analytics	1 week	PESCOE, Abad
51	2014-15	Prof V B Kamble	Works hop	Big Data Analytics	1 week	Dr BAMU, Abad
52	2014-15	Prof. V. B. Kamble	Works hop	e-governance workshop	1 day	Dr.B.A.M.U and director of IT, Govt of Maharashtra
53	2014-15	Prof Y S Pagar	Works hop	Hadoop Framework	1 day	PESCOE, Abad
54	2014-15	Prof Y S Pagar	Works hop	Elliptic Curve Cryptography	2 days	Chennai
55	2014-15	Prof Vishakha R Mote	Works hop	Hadoop Framework	1 day	PESCOE, Abad
56	2014-15	Prof D T Rathod	Works hop	Hadoop Framework	1 day	PESCOE, Abad
57	2014-15	Prof D T Rathod	Works hop	Big Data Analytics	1 week	PESCOE, Abad
58	2014-15	Prof D T Rathod	Works hop	Internet of things track	2 days	PESCOE, Abad
59	2014-15	Prof V D Jadhav	Works hop	Big Data Analytics	1 week	PESCOE, Abad
60	2014-15	Prof A U Jadhav	Works hop	Latest Technology trends in IT	3	Pune
61	2014-15	Prof A U Jadhav	Works hop	Hadoop Framework	1 day	PESCOE, Abad
62	2014-15	Prof K R Dabhade	Works hop	Cloud Computing & Big Data		PESCOE, Abad
63	2014-15	Prof K R Dabhade	Works hop	Development of Soft Skills	1	PESCOE, Abad
64	2014-15	Prof K R Dabhade	Works hop	Network Security	2	DIETMS, Abad
65	2014-15	Prof B M Kulkarni	Works hop	Android Apps Development	2 days	PESCOE, Abad
66	2014-15	Prof B M Kulkarni	Works hop	Big Data	1 day	MIT, Abad



67	2014-15	Prof Neha S Syed	Works hop	Robotics & automation	1 week	PESCOE, Abad
68	2014-15	Prof Supriya M. Salve	Works hop	Environmenta l Studies	2 weeks	MIT, Abad
69	2014-15	Prof Neha R Khatri	Works hop	Robotics & automation	1 week	PESCOE, Abad
70	2014-15	Prof. V. S. Sonawane	Works hop	One day workshop on Big data	1 day	M.I.T,Abad
71	2014-15	Prof. V. S. Sonawane	Works hop	Training program on "anagement Information System"	1 day	CMIA,Abad
72	2014-15	Prof. V. S. Sonawane	Works hop	Training Program on Android	5 days	Nagpur at RECOE
73	2014-15	Prof. G. G. Dayalani	Works hop	One day workshop on Big data	1 day	M.I.T,Abad
74	2014-15	Prof. M. R. Ghunawat	Works hop	One day workshop on Big data	1 day	M.I.T,Abad
75	2015-16	Prof S N Kakarwal	Works hop	Innovations & Patents IIAP 201	2 days	GEC, Abad
76	2015-16	Prof S N Kakarwal	Works hop	Soft Computing ANN & Fuzzy applications in Engineering	1 week	DIETMS,Abad
77	2015-16	Prof S N Kakarwal	Works hop	Enhancing Leadership Attitude & Ethics	2	GEC, Abad
78	2015-16	Prof Vijayshri A. Losarwar	Works hop	Enhancing Leadership Attitude & Ethics	2	GEC, Abad
79	2015-16	Prof Vijayshri A. Losarwar	Works hop	Advances in IoT & Cloud	2	SPW university, Pune
80	2015-16	Prof Manisha M. Ambekar	Works hop	Innovations & Patents IIAP 201	2 days	GEC, Abad



81	2015-16	Prof Manisha M. Ambekar	Works hop	MATLAB Simulink & low cost design using signal & image processing Toolbox	4 days	MIT, Abad
82	2015-16	Prof Manisha M. Ambekar	Works hop	Smart City	2 days	PESCOE, Abad
83	2015-16	Prof S D Pingle	Works hop	Smart City	2 days	PESCOE, Abad
84	2015-16	Prof Y S Pagar	Works hop	Innovations & Patents IIAP 201	2 days	GEC, Abad
85	2015-16	Prof Y S Pagar	Works hop	Soft Computing ANN & Fuzzy applications in Engineering	1 week	DIETMS, Abad
86	2015-16	Prof Y S Pagar	Works hop	Smart City	2 days	PESCOE, Abad
87	2015-16	Prof Vishakha R Mote	Works hop	Innovations & Patents IIAP 201	2 days	GEC, Abad
88	2015-16	Prof Vishakha R Mote	Works hop	Ekdanta	3	Abad
89	2015-16	Prof Vishakha R Mote	Works hop	Rhythm	3	Abad
90	2015-16	Prof D T Rathod	Works hop	Smart City	2 days	PESCOE, Abad
91	2015-16	Prof D T Rathod	Works hop	Development of Soft Skills	1 day	PESCOE, Abad
92	2015-16	Prof V D Jadhav	Works hop	Smart City	2 days	PESCOE, Abad
93	2015-16	Prof A U Jadhav	Works hop	Advances in IoT & Cloud	2	SPW university, Pune
94	2015-16	Prof A V Turukmane	Works hop	ICRTET 2016	3 days	Nashik
95	2015-16	Prof Neha S Syed	Works hop	Software training workshop		PESCOE, Abad



96	2015-16	Prof Neha R Khatri	Works hop	Software training workshop		PESCOE, Abad
97	2015-16	Prof Vikas S. Katakbound	Works hop	Agile Software Development	1 day	PESCOE, Abad
98	2015-16	Prof Vikas S. Katakbound	Works hop	Software engineering & Agile Software Development	5 days	MIT, Abad
99	2015-16	Prof Vijayshri A. Losarwar	Works hop	Training the Trainer (TTT) Program on " Foundation Skill in Information Technology"	1 week	GEC, Abad
100	2015-16	Prof Manisha M. Ambekar	Works hop	Emerging Technologies in Open Source	1 week	DIETMS, Abad
101	2015-16	Prof S D Pingle	Works hop	Emerging Technologies in Open Source	1 week	DIETMS, Abad
102	2015-16	Prof Y S Pagar	Works hop	Training the Trainer (TTT) Program on " Foundation Skill in Information Technology"	1 week	GEC, Abad
103	2015-16	Prof Vishakha R Mote	Works hop	Training the Trainer (TTT) Program on " Foundation Skill in Information Technology"	1 week	GEC, Abad
104	2015-16	Prof D T Rathod	Works hop	Emerging Technologies in Open Source	1 week	DIETMS, Abad
105	2015-16	Prof A V Turukmane	Works hop	Training the Trainer (TTT) Program on " Foundation Skill in Information	1 week	GEC, Abad



				Technology"		
106	2016-17	Prof S V Bhosale	STTP	Big Data Analytics with R	1 week	MIT, Abad
107	2015-16	Prof K R Dabhade	STTP	Emerging Technologies in Open Source	1 week	DIETMS, Abad
108	2016-17	Prof B M Kulkarni	STTP	Big Data Analytics with R	1 week	MIT, Abad
109	2015-16	Prof Neha S Syed	STTP	Emerging Technologies in Open Source	1 week	DIETMS, Abad
110	2015-16	Prof Supriya M. Salve	STTP	Emerging Technologies in Open Source	1 week	DIETMS, Abad
111	2015-16	Prof Neha R Khatri	STTP	Emerging Technologies in Open Source	1 week	DIETMS, Abad
112	2016-17	Prof Vikas S. Katakound	STTP	Big Data Analytics with R	1 week	MIT, Abad
113	2016-17	Prof V V Saswade	STTP	Emerging Technologies in Open Source	1 week	DIETMS, Abad
114	2016-17	Prof G R Gaud	STTP	Big Data Analytics with R	1 week	MIT, Abad
115	2016-17	Prof R H Jadhav	STTP	Big Data Analytics with R	1 week	MIT, Abad
116	2016-17	Prof A S Gadekar	STTP	Big Data Analytics with R	1 week	MIT, Abad

28. Student projects

- percentage of students who have taken up in-house projects including inter-departmental projects
- percentage of students doing projects in collaboration with other universities / industry / institute

Year	UG	PG
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	Inhouse (%)	Outhouse (%)	Inhouse (%)	Outhouse (%)
2013-14	0	1.8518518 52		
2014-15	0	0		
2015-16	4.3478260 87	8.6956521 74		

29. Awards / recognitions received at the national and international level by

a) Awards / Recognitions received by faculty

Sr.No	Name of faculty	Awards / Recognition	Year	Organizational
1	Dr. S. N. Kakarwal	Doctoral	2013	Dr. B. A. M. U.
2	Dr. S. N. Kakarwal	Ph.D Guide	2015	Dr. B. A. M. U.
3	Dr. S. N. Kakarwal	PG Teacher	2015	Dr. B. A. M. U.
4	Dr. S. N. Kakarwal	Womens Achievers In IT	2014	Interop Mumbai
5	Pro. V. A. Losarwar	PG Teacher	2015	Dr. B. A. M. U.
6	Prof. M. M. Ambekar	PG Teacher	2015	Dr. B. A. M. U.
7	Prof. S. D. Pingle	PG Teacher	2015	Dr. B. A. M. U.
8	Prof. Y. S. Pagar	PG Teacher	2010	Dr. B. A. M. U.
9	Prof. D. T. Rathod	PG Teacher	2015	Dr. B. A. M. U.
10	Prof. V. D. Jadhav	PG Teacher	2015	Dr. B. A. M. U.
11	Prof. V. D. Jadhav	Best Paper Award	2015	International Conference on Internet of Things, Nect Generation Network & Cloud Computing 2016



Sr.no	Name of student	Awards /Recognition	Year	Organizati on
1	Ms. Shreya Paudel	FINALIST	2016	SEED INFOTECH
2	Mr.Syed Waquas Hashmi	WINNER	2016	CHRIST UNIVERSITY
3	Ms.Diksha Tarte	COMPLETION	2015	IIT BOMBAY
4	Ms.Diksha Tarte	COMPLETION	2015	IIT BOMBAY
5	Ms.Diksha Tarte	COMPLETION	2015	RANK SHEET
6	Mr. Gawai Amol	ZONAL WINNER	2015	PES POLY A'BAD
7	Ms. Gaussiya Nausheen S.Z.	COMPLETION	2014	DIGITIZE IT STATION

b) Cultural Awards

Sr. No.	Name of the Faculty	Cultural activity	Year	Details of the event participated and prize won (if any)
1	Prof. Y. S. Pagar	Prarambhik Vadan	2016	
2	Prof. Y. S. Pagar	Praveshika Pratahm Gayan Exam	2015	

Sr. No.	Name of the student	Cultural activity	Year	Details of the event participated and prize won (if any)
1	Mr. Mohd. Mubassir	GROUP DANCE (ROTARY YOUTH FESTIVAL)	2015	(First) ROTARY INTERNATIONAL
2	Mr. Patel Pranay	GROUP DANCE (ROTARY YOUTH FESTIVAL)	2015	(First) ROTARY INTERNATIONAL



c) Sports Awards

Sr. No.	Name of the student(s)	Sports activity	Year	Details of the event participated and prize won (if any)

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Sr. no	Year	Type (Seminar/Conf/Workshop)	Funded By(National/International)	Name of resource Person	Name of Event	Date	N o. of P ar tic ip an ts
1	2013-2014	Workshop	Self	Mr. Pawan Yadav (CIB ACTS, Pune)	Workshop on Ethical Hacking	2/1/2014	
2	2013-2014	Seminar	Self	Mr. Ganesh Shah	Converged Virtualization build your career	2/25/2014	
3	2013-2014	Workshop	Self	Mr Arun Kadikodi & S.Sangameshwaram	Workshop on recent trends in IT	2/28/2014	
4	2013-2014	Seminar	Self	Abhijeet Bodhankar	Workshop on Basic Photography	2/28/2014	
6	2014-2015	Workshop	Self	Yougesh Gaikwad	Spoken Tutorial from IIT Bombay	7/16/2014	
	2014-2015	FDP	Self	Prof. M. M. Ambekar	In-House FDP on Effective Teaching Skills	7/18/2014	All Staff
7	2014-2015	Workshop	Self	Yougesh Gaikwad	Spoken Tutorial from IIT Bombay	8/20/2014	



8	2014-2015	Seminar	Self	Vasant Raj Cherikonda	Software Application & Product Inauguration	11/18/2014	
9	2014-2015	Workshop	Self	Mr. Sandeep Pathak & Mr. Tushar Totre	Workshop on Sound Engineering	2/10/2015	
10	2014-2015	Workshop	Self	N. P. Jadhav	Computer Network & Desktop Assembly Workshop	2/24/2015	
11	2014-2015	Seminar	Self	Dr. Rahul Khataavkar	IT ACT 2000 & Cyber Laws	3/17/2015	
12	2015-2016	Workshop	Self	CA Ananya Thakur	Workshop on Interview Skills	8/16/2015	
13	2015-2016	Workshop	Self	Araye Ratish	Spoken Tutorial from IIT Bombay on Core Java	9/3/2015	
14	2015-2016	Seminar	Self	Kedar Dixit	Expert Lecture on Career Opportunity in Java	9/22/2015	
15	2015-2016	Workshop	Self	Araye Ratish	Spoken Tutorial from IIT Bombay on Core Java	9/5/2015	
16	2015-2016	Seminar	Self	C. R. Boobalan	Expert Lecture on Career Opportunity in Graphics Designing	10/8/2015	
17	2015-2016	Workshop	Self	Ashwini R Patil,	Spoken Tutorial from IIT Bombay on C & C++	8/29/2015	



31. Student profile program-wise:

Name of the Program	Applications received	Selected		Lateral Entry		Pass percentage	
		Male	Female	Male	Female	Male	Female
Computer Science & Engg. (2015-2016)	90	18	22	26	31	53	47
Computer Science & Engg. (2014-2015)	90	12	15	18	29	44	56
Computer Science & Engg. (2013-2014)	90	45	36	38	23	48	52

55. Diversity of students

Name of the Program	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
Computer Science & Engg. (2015-2016)	87	13	-	-
Computer Science & Engg. (2014-2015)	78	22	-	-
Computer Science & Engg. (2013-2014)	83	15	1	1

56. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise.

Batch	2015-16	2014-15	2013-14
No. of Students	GATE/GRE/GMAT-1	GATE/GRE/GMAT-8	GATE/GRE/GMAT-4



57. Student progression

Student progression	2015-16	Percentage Against Enrolled	2014-15	Percentage Against Enrolled	2013-14	Percentage Against Enrolled
UG to PG	-		8		4	
PG to M.Phil,DM / M Ch / DNB	-	-	-	-	-	
PG to Ph.D.	-	-	-	-	-	
Ph.D. to Post-Doctoral	-	-	-	-	-	
Employed	24		7		47	
• Campus selection						
• Other than campus recruitment						
Entrepreneurs						

58. Diversity of staff

Percentage of faculty who are graduates	2013-2014	2014-2015	2015-2016
of the same university	22	23	24
from other universities within the State	01	01	03
from universities from other States	01	01	-
from universities outside the country			

59. Number of faculty who were awarded M.Phil.,DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period

Assessment Period	2015-2016	2014-2015	2013-2014
No. of Faculty	Ph.D.-NIL	Ph.D.-NIL	Ph.D.-NIL



60. Present details of departmental infrastructural facilities with regard to

a) Library

Area of Library	Seating Capacity	Working Hours	Total No. of Books
10 sq.Mtr	10	10:30 A.M. TO 5:30 P.M.	296

b) Internet facilities for staff and students

Sr. No.	Description of Faculty Room/Laboratory Name	Computing Facility Available			
		Server	Computers	Internet	Wi-Fi
1	Digital Signal Image Processing		20	YES	YES
2	Computer Graphics Lab		20	YES	YES
3	Internet Lab		20	YES	YES
4	Software Development Lab-I		20	YES	YES
5	Software Development Lab-II		20	YES	YES
6	Web Design Lab		20	YES	YES
7	Software Engineering Lab		20	YES	YES
8	ADBMS Lab		20	YES	YES
9	Programming Lab		20	YES	YES
10	Project Lab		20	YES	YES

c) Total number of class rooms

⇒ **Four**

d) Class rooms with ICT facility and 'smart' class rooms

⇒ **Four Class Rooms with LCD Projector and Wi-Fi Facility Available**

e) Students' laboratories

Sr. No.	Laboratory Name	Student Capacity	Area	Total Cost In Rs.	Quality of Instrument
1	Digital Signal Image Processing	20	72 Sq.Mtr	776435/-	All state of art machines Working
2	Computer Graphics Lab	20	72 Sq.Mtr	724994/-	All state of art machines Working
3	Computer Design LAB	20	54.78 Sq.Mtr	474044/-	All state of art machines Working
4	Software Development Lab-I	20	68 Sq.Mtr	7,39,360/-	All state of art machines Working



5	Software Development Lab-II	20	68 Sq.Mtr	1102069/-	All state of art machines Working
6	Web Design Lab	20	75 Sq.Mtr		All state of art machines Working
7	Software Engineering Lab	20	58.53 Sq.Mtr	529045/-	All state of art machines Working
8	ADBMS Lab	20	47.77 Sq.Mtr		All state of art machines Working
9	Programming Lab	20	47.77 Sq.Mtr		All state of art machines Working
10	Project Lab	20	66 Sq.Mtr		All state of art machines Working

f) Research laboratories - NA

61. List of doctoral, post-doctoral students and Research Associates

a) From the host institution/university- NA

b) From other institutions/universities-NA

62. Number of post graduate students getting financial assistance from the university.

Year	GOI/UGC/University Scholarship	Tuition fee refund
2015-16	04	
2014-15		
2013-14		

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching learning evaluation? If yes, how does the department utilize the feedback?

Ans: Yes. The institute has formed various department wise committees such as program assessment committee (PAS) for ensuring involvement of all stake holders for the effective conduct of university curriculum so as to fulfill the objectives. Faculty is one of the stake holders. The department has also obtained feedbacks from the faculty teaching the respective subjects about the university curriculum. When the affiliated university changes the syllabus the faculties participate in the seminars arranged by university and various engineering colleges affiliated to the university and give their feedbacks about the structure of curriculum, the method of teaching that should be adapted, they suggest practical assignments to be conducted so as to fulfill the learning objectives. Some sample feedbacks of the faculty are as below. The details of feedback process for last three years are given in annexure A.

The department has formed an Administrative system called program assessment committee (PAS) in which all faculty members are involved. Faculties discuss and share their feedbacks about curriculum establishment PEOs/POs establishment, their



validation, course outcomes validation and assessment processes. It helps in ensuring the attainment of PEOs & Pos It includes committees and their functions, working process and related regulations.

1. Program Coordinator
2. Module Coordinator
3. Program Assessment Committee
4. Department Advisory Board

Program Assessment Committee

- Program Assessment Committee consists of Program Coordinator, Module Coordinator and faculty representatives Chaired by Program Coordinator, the committee monitors the attainment of PO and PEO's.
- Evaluates program effectiveness and proposes necessary changes Prepares periodic reports records on program activities, progress, status or other special reports for management key stake holders.
- Motivates the faculty and students towards attending workshops, developing projects, working models, paper publications and research
- Interact with students, faculty, Program Coordinators, Module Coordinator and outside community agencies (through their representation) in facilitating program educational objectives.
- PAC meets at least once in 6 months to review the program and submits report to
- Department Advisory Board

Course Coordinator

- 1. Either one of the senior faculty members who teaches common courses (if any) otherwise individual faculty will be the course coordinator.
- 2. Monitor and reviews the activities related to attainment of course outcomes

Module Coordinator

- Coordinates and supervise the faculty teaching the particular course in the module (group of like courses).
- Responsible for assessment of the course outcomes.
- Recommends and facilitates workshops, faculty development programs, meetings or conferences to meet the course outcomes.
- Analyses results of particular course and recommends the program Coordinator and /or Head of the department to take appropriate action.
- Liaise with students, faculty, program coordinator and Head of the Department to determine priorities and policies.

Program Assessment Committee of CSE Department:

- **Module Coordinators**
- 1) Module Name: Engineering Sciences
- Subjects Included : EECE, DE, MP
- Module Coordinator: Prof. V.B. Kamble
- 2)) Module Name: Professional/core Subjects
- Subjects Included : OS, DAA, DS, AA, TOC, POCD, SE, STQA
- Module coordinator : Prof. S.D. Pingle
- 3) Module Name: Professional/core Subjects



- Subjects Included CN-II, DMS, CG, SC, EIS, CN-I, DBMS
- Module coordinator: Prof. Y. S. Pagar
- 4)) Module Name: Diversified subjects
- Subjects Included : MOC, OOPS, PIJ, Android, DWDM, DLOS-WP, DIP,

42 b Does the department obtain feedback from students on staff, curriculum and teaching learning evaluation and how does the department utilize the feedback?

YES.

The department has obtained feedback from all SE CSE, TE CSE & BE CSE students on the said points and maintains the record of it. The faculties take unit wise feedback of each subject they teach and make use of it for further improvements in the teaching plan. The record of all three years is maintained in the department in the form of hard copies. Some examples of feedbacks are attached herewith.

- 1) The students suggested to take them to industry visit. So the department has arranged the industrial visits every year at software industries such as INFOSYS, Bankbridge etc.
- 2) The students have suggested to give emphasis on practical knowledge as on advance technology. So the department has conducted various events such as workshops seminars webinars, expert lectures , every year. The record of all three years activities is maintained in the department.

42.c

Does the department obtain feedback from alumni and employers on the programs offered and how does the department utilize the feedback?

Yes. The department has organized alumni meet every year and taken feedback from alumni's time to time through correspondence and also the employers while they come for campus interviews. The feedback includes PEO Validation survey, Alumni Survey, Alumni feedback form. The records of these documents for last three years are maintained, reviewed by PAC and suggestions are used to improve teaching learning process.

List the distinguished alumni of the department:

List is attached herewith.



43. Give the details of student enrichment programs (special lectures/workshops/seminar) involving external experts)

Following is the List of student enrichment programs for last three years.

Sr. no	Year	Name of resource Person	Name of Event	Date	Class	No. of hours Interaction
01	2013-2014	Mr. Pawan Yadav (CIB ACTS, Pune)	Workshop on Ethical Hacking	01/02/2014	BE(CSE) TE(CSE)	06
02		Mr. Ganesh Shah	Converged Virtualization build your career	25/02/2014	BE(CSE) TE(CSE)	02
03		Mr Arun Kadikodi S.Sangamesh waram	Workshop on recent trends in IT	28/02/2014	SE(CSE) BE(CSE) TE(CSE)	06
04		Abhijeet Bodhankar	Workshop on Basic Photography	28/02/2014	TE(CSE) BE(CSE)	02
06	2014-2015	Yougesh Gaikwad	Spoken Tutorial from IIT Bombay	16/07/2014	TE(CSE)	06
07		Yougesh Gaikwad	Spoken Tutorial from IIT Bombay	20/08/2014	SE(CSE)	06
08		Vasant Raj Cherikonda	Software Application & Product Inauguration	18/11/2014	BE(CSE) TE(CSE)	02
09		Mr. Sandeep Pathak Mr. Tushar Totre	Workshop on Sound Engineering	10/02/2015 11/02/2015	BE(CSE) TE(CSE)	12
10		N. P. Jadhav	Computer Network & Desktop Assembly Workshop	24/02/2015	BE(CSE) TE(CSE)	06
11		Dr. Rahul Khatavkar	IT ACT 2000 & Cyber Laws	17/03/2015	BE(CSE) TE(CSE)	02
12	2015-2016	CA Ananya Thakur	Workshop on Interview Skills	16/08/2015	BE(CSE)	06
13		Araye Ratish	Spoken Tutorial from	03/09/2015	TECSE)	06



			IIT Bombay on Core Java			
14		Kedar Dixit	Expert Lecture on Career Opportunity in Java	22/09/2015	BE(CSE) TE(CSE)	02
15		Araye Ratish	Spoken Tutorial from IIT Bombay on Core Java	05/09/2015	TECSE)	06
16		C. R. Boobalan	Expert Lecture on Career Opportunity in Graphics Designing	8/10/2015	TE(CSE)	02
17		Ashwini R Patil,	Spoken Tutorial from IIT Bombay on C & C++	29/08/2015	SE(CSE)	06

44. List the teaching methods adopted by the faculty of different programs including clinical teaching:

Following teaching methods are adopted by faculties:

M1: Lecture interspersed with discussions

M2: Lecture with a quiz

M3: Tutorial

M4: Demonstration (Such as model, laboratory, field visit)

M5: Group Discussion

M6: Group Assignment/ Project

M7: Presentations

M8: Asynchronous Discussion

Assessment Tools used:

1. Direct Assessment Tools

Home Assignment-Each and every student is assigned with course related tasks during every course work once or twice and assessment will be done based on their performance. Grades are assigned depending on their innovation in solving/deriving the problems.



- **Assignment-**The assignment is a qualitative performance assessment tool designed to assess students' knowledge of engineering practices, framework, and problem solving. An analytic rubric was developed to assess students' knowledge with respect to the learning outcomes associated with the scenario tool.
- **Online Examination-** Online Examination System is a Multiple Choice Questions (MCQ) based examination system that provides an easy to use environment for both Test Conductors and Students appearing for Examination.
- **Semester End Examination-**Semester End examination is a metric for assessing whether all the POs are attained or not. Examination is more focused on attainment of course outcomes and program outcomes using a descriptive exam.
- **Rubrics-** A rubric explains to students the criteria against which their work will be judged with the “scoring rules”. It makes public key criteria that students can use in developing, revising, and judging their own work.

2. Indirect Assessment Tools

- **Program level statistics-** At the end of every academic year annual report is developed where the statistics of students who have participated in professional bodies/student chapters/workshops/seminars/conferences/paper presentations /internships/industry visit etc.. is prepared. This statement is considered to indirectly assess the POs
- **Survey reports-** Indirect assessment strategies may be easily implemented by embedding them in the end-of-course evaluation form, Alumni Survey and Employer Survey.

Graduate/Exit Survey: during the program

Alumni Survey: after one year of graduation

Employer Survey: after one year of graduation

The assessment tools used for attainment of Program Outcomes are tabulated in Table:

45. How does the department ensure that the program objectives are constantly met and learning outcomes continuously monitored?

The department has formed an Administrative system to continuously monitor program objectives are constantly met and learning outcomes called program assessment committee (PAS) in which all faculty members are involved. Faculties discuss and share their feedbacks about curriculum establishment PEOs/POs establishment, their validation, course outcomes validation and assessment processes. It helps in ensuring the attainment of PEOs & Pos It includes committees and their functions, working process and related regulations.



1. Program Coordinator
2. Module Coordinator
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4. Department Advisory Board

Program Assessment Committee

- Program Assessment Committee consists of Program Coordinator, Module Coordinator and faculty representatives Chaired by Program Coordinator, the committee monitors the attainment of PO and PEO's.
- Evaluates program effectiveness and proposes necessary changes Prepares periodic reports records on program activities, progress, status or other special reports for management key stake holders.
- Motivates the faculty and students towards attending workshops, developing projects, working models, paper publications and research

Interact with students, faculty, Program Coordinators, Module Coordinator and outside community agencies (through their representation) in facilitating program educational objectives.

The faculties attach the details of learning outcomes teaching plan in their course files and feedback from students is taken to monitor them.

46. Highlight the participation of students and faculty in extension activities:

Students and faculty have participated in extension activities under student's association, FORCES: such as

Clean Campus. Organized By: Department of Computer Science & Engineering Computer Department, P.E.S. College of Engineering, Aurangabad of Duration: one day. by Head: Prof. V.A. Losarwar, Head Of Department (CSE branch) & Forces In charge : Prof. Y.S. Pagar, staff Coordinator: Prof. G.R. Goud & Committee Members: FORCES committee. Participant were students from all branches.

Objective of Program: in order to inculcate the sense of cleanliness and awareness of its importance in the students. The aim was to make students realize that they are the part of the campus and it is their responsibility to keep it clean.

Details of Program: The program was scheduled at the 23rd of January 2016 at 10:30 am at P.E.S. College of engineering's campus. The members of the forces committee as well as some other students also volunteered in cleaning the campus. The teachers also got involved in this noble task. Irrespective of whether it was a student or a staff member, each one tried to give their contribution in cleaning up the campus despite of the scorching sun.

Separate record of such events is maintained every year by the department.



47. Give the details of beyond syllabus scholarly activities of the department.

The department conducts sttps, workshops to introduce beyond syllabus technology for students and faculty. Details of some of them are as below:

- 1) Report on the Spoken Tutorial workshop Conducted On 3rd September 2015.
Spoken Tutorial on Core Java

Computer Science and Engineering Department organized its first Spoken Tutorial workshop for year 2015-2016 on 3rd September 2015. The program was initiated under the leadership of Prof. A V Turukmane, Assistant Professor in CSE Department The event comprised two sections: first ‘Spoken Tutorial on Core Java Language’ and second ‘‘Spoken Tutorial On Eclipse’’.

Inaugural Session

The workshop started with a welcome address by Prof A V Turukmae, Co-ordinator of the workshop. He briefly introduced the theme of the workshop, mission, vision and activities of Spoken Tutorial. The workshop was inaugurated by the Prof V.A Losarwar (HOD) Computer Science and Engineering Department, emphasized the role of Core Java Language at Third year Engineering Students and the focused on certification Core Java Language in this direction and also urged the Students to Expertise in Core Java language.

The first section of the program, i.e. ‘Spoken Tutorial OnCoreJava Language, was conducted by online guest speaker, Araya Ratish, IIT Bombay. Araya Ratishstarted the session following Objectives.

Objective

- To familiarize the Students with the Java Language.
- How to Write Java Program.
- How To Compile Java Program.
- How To Execute Java Program.
- How to use, Strings, Methods, Constructor, Packages in JAVA Program.

The Workshop

The One day workshop was divided broadly into 2 sessions. The first half in introduced the Strings, Methods and second half in introduced the Constructor, Packages in java Programming.

69 students present in this workshop from BE Class.

The records of all such events for last three years are maintained by the department.



48 : no

50 Detail five major strengths, weaknesses, opportunities and challenges of the department.

Answer: By doing SWOT analysis through continuous meetings of faculty members and stake holders like parents, students, higher management authorities ,the department has recognized following strengths , weaknesses, opportunities and challenges:-

Strengths: 1) The labs are well established as per the norms of AICTE

- 3) The facility of library is available
- 4) Plenty of student enrichment programs are conducted
- 5) Staff is experienced.

Weaknesses: ?

Opportunities: 1) Scope for research projects

Challenges:1) Students coming from rural area need to improve a lot

- 2) Fast changing computer and information technology.
- 3) Growing competitions among engineering colleges

51: Future plans of the department:

- 1) To establish research center for PHD students
- 2) To establish incubation center to undertake govt projects.



3. Evaluative Report of Electrical Electronics and Power Department

1. Name of the Department

Electrical Electronics and Power

2. Year of establishment

The Department of Electrical Electronics and power Engineering has been performing a prominent role in producing technologists and technocrats of the highest proficiency ever since it was established in the year 1994. The department runs one under-graduate program and one post-graduate program to look after the ever challenging needs of academic and technical excellence in all areas of electrical engineering such as Computer technology, Control & Automation, Power systems & Power Electronics.

3. Is the Department a part of a college/Faculty of the university?

Department of Electrical Electronics and Power is a part of PESCOE, affiliated to Dr. BAMU, Aurangabad.

4. Names of programs offered (UG, PG, Pharm D, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M./M.Ch., Super specialty fellowship, etc.)

The programs offered in Department of Electrical Electronics and Power are
B.E. Electrical (Electronics and Power) (UG) – Since 1994
M.E. (Electrical Power Systems) (PG) – Since 2014

5. Interdisciplinary programs and departments involved

NIL

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

NIL

7. Details of programs discontinued, if any, with reasons

NIL

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

The Examination system is Semester pattern for UG level and Credit based system for PG level.

9. Participation of the department in the courses offered by other departments

Srno	Courses offered	Department
1	Linux Operating System	Computer science engineering
2	Mat lab Programming	Mechanical Engineering
3	Smart city	Computer science engineering
4	Big data analysis	Computer science engineering
5	Design of Experiments and Optimization Techniques.(STTP)	Mechanical Engineering
6	Web based Training	Computer science engineering
7	Workshop on Free & Open Source Technologies	Computer science engineering



10. Number of teaching posts sanctioned, filled and actual(Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	04	00	00
Associate Professor/Reader	08	08	08
Assistant Professor	16	10	10
Lecturer		07	07
Tutor / Clinical Instructor		00	00
Senior Resident		00	00

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name of the faculty member	Qualification	Designation	Specialization	No. of Years of Experience
Prof. B.N.Choudrari	M.E.	Associate Professor	EPS	21
Prof. S.S.Kamble	M.E.	Associate Professor	EPS	21
Prof S.M.Kulkarni	M.E.	Associate Professor	EPS	19
Prof. S.V. Murkute	M.E	Associate Professor	EPS	16
Prof M.S.Potdar	ME	Associate Professor	EPS	17
Prof. A.P.Paranjape	ME	Associate Professor	EPS	11
Prof P.D. Mohite	ME	Associate Professor	EPS	11
Prof. A. A. Tupe	M.E	Associate Professor	EPS	10
Prof I.R. Kadri	M.E	Assistant Professor	EPS	04
Prof. V.P. Kamble	B.E	Lecturer	EEP	04
Prof S. N. More	B.E	Lecturer	EEP	03
Prof. A. S. Pande	M.E	Assistant Professor	CS	02
Prof. V. K. Peddiny	M.Tech	Assistant Professor	PED	02
Prof. A. M. Paikrao	ME	Assistant Professor	EPS	02
Prof. P. P. Fulzele	B.E	Lecturer	EEP	02
Prof. P. S. Kamble	B.E	Lecturer	EEP	02
Prof. R. U. Magre	B.E	Lecturer	EEP	02
Prof. M. A. Kamble	B.E	Lecturer	EEP	02
Prof. B. Kunal Kumar	M.Tech.	Assistant Professor	EPS	01
Prof. N. A. Sonkamle	B.E	Lecturer	EEP	01
Prof. Md.Irshad Waheed	M.E.	Assistant Professor	EPS	0.6
Prof. K. B. Gawale	M.Tech	Assistant Professor	EPS	0.6



12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

The Following staff members served as adjunct faculty in the department of electrical electronics and power engineering.

Srno	Adjunct faculty	Department
1	Prof. Anuradha Jadhav	Applied Science
2	Prof S. C. Rudrawar	Applied Science

13. Percentage of classes taken by temporary faculty – program-wise information

In electrical engineering department for under graduate program 66% of the classes are taken by the permanent faculties and 34 % by temporary faculty and for post graduate program 10% of the classes are taken by the temporary faculty.

14. Program-wise Student Teacher Ratio

Srno	Name of Program	Student Teacher Ratio
1	Under Graduate (BE)	15
2	Post Graduate (ME)	05

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Sr.No.	Number of academic support staff	
	Sanctioned	Filled
1	04	02

16. Research thrust areas as recognized by major funding agencies

NIL

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

NIL

18. Inter-institutional collaborative projects and associated grants received

d) National collaboration b) International collaboration

NIL

19. Departmental projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

NIL

20. Research facility / Centre with

- state recognition
- national recognition
- international recognition

NIL



21. Special research laboratories sponsored by / created by industry or corporate bodies

NIL

22. Publications:

Sr. No.	Name of The Staff	Conference Paper	Journal Paper	Date of Publication	Volume	Paper Title
1	Prof B.N. Chaudhary	Nil	Journal of Power Electronics, Vol. 15, January 2015	Jan-15	Volume 15	Extended wing technique approach for the detection of winding interturn Fault in Three Phase transformer
2	Prof B.N. Chaudhary	Nil	International Journal of Engineering Trends & Technology (IJETT)	2016		Remote condition Monitoring Technique of Transformer using single board computer
3	Prof B.N. Chaudhary	Nil	International Journal of science Technology & Engineering (IJSET)	2016		Design & Implementation of Remote condition Monitoring Technique of Transformer using Data Acquisition System
4	Prof B.N. Chaudhary	Nil	International Journal of science & Research(IJSR)	2016		Wireless Condition Monitoring Technique of Power Transformer & Formulation of Health Index
5	Prof S S Kamble	Nil	International Journal of science Engineering & Research Development (IJSEDR)	May 16	Volume 1 Issue 5	Smart Bypass Diode for Smart Power
6	Prof S. V. Murkute	ICETE ESSES-	Nil	March 2016		Simple Algorithm for Identification of



		16 (IEEE conf.)				Unbalanced Sag Type
7	Prof S.M. Kulakarni	National Conference on Recent Research in Engineering and Technology (NCRR ET - 2015)	International Journal of Advance Engineering and Research Development (IAERD), e-ISSN: 2348 - 4470 , print-ISSN:2348-6406	Mar-15	Nil	Variable Reactance Transformer an Emerging Technology
8	Prof S.M. Kulakarni	Nil	Journal of Advance Engineering and Research Development (IAERD), e-ISSN: 2348 - 4470 , print-ISSN:2348-6406	March 15		Variable Reactance Transformer an Emerging Technology
9	Prof M S Potdar	Nil	International Journal of Engineering science & Research Technology	March 16		A Review on HVDC Transmission Line Protection with Different Techniques
10	Prof A.P. Paranjpe	ICRES H-ARMS 2015- June 1-4 --- 2015.	Nil	Nil	Nil	Reliability enhancement of furnace using innovative nontraditional conical electrode shapes Capacitors. for Induction furnace power management.
12	Prof A.P. Paranjpe	Nil	IOSR Journal of Electrical and Electronics	Jan - Feb 2015	Volume 10, Issue 1	Study of Characteristics of Capacitors, Having



			Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 10, Issue 1 Ver. I (Jan – Feb. 2015), PP 23-28.		Ver. I	Non-Traditional Conical Electrode Shapes, For Charge Distribution, And Surface Current Sharing Density
13	Prof A.P. Paranjpe	Nil	International Journal for Research In Electrical & Electronics Engineering	Jan-15	Volume1, Issue 1	Measurement of Strength of Vacuum Di-electric medium, [Cryogenic Insulant] in Vacuum Interrupter
14	Prof A.P. Paranjpe	Nil	International Journal of Life Science Reliability and Safety Engineering, Vol. 4, Issue 3 BARC, Mumbai.	July-September 15	Volume 4, Issue 3	Reliability enhancement of furnace using innovative nontraditional conical electrode shapes Capacitors. for Induction furnace power management.
15	Prof P.D. Mohite	Clean Energy 2012	Nil	13 – 14 Oct 2012	Nil	Pitch Angle and Power Controls of wind Turbine
16	Prof P.D. Mohite	Clean Energy 2012	Nil	13 – 14 Oct 2012	Nil	Wind electricity generation and associated harmonics
17	Prof A.M. Paikrao	Nil	International Journal of Electrical Engineering and Technology (IJEET), Volu	Apr-14	Volume 5, Issue 3,	An Overview on Different Methods of Fault Location in Underground Cable System



			me 5, Issue 3, March (2014), pp. 27-33			
18	Prof B.Kunal Kumar	Nil	International Journal of Latest Advances in Power System Operation and Energy Management (IJPSOEM)	December 2014.	Volume-4, Issue-4,	A Quasi Z-Source based Inverter Topologies for Grid Connected Systems
19	Prof V.K. Peddiny	Nil	IJEAT, Volume - 2, Issue-3, February ,2013	February 28,2013	Volume - 2, Issue-3	Improved natural balancing of ripple rejection LC filter with modified phase shifted-PWM for single leg five level flying capacitor converter.
20	Prof A S Pande	Nil	IJAET	2015	Volume 7, Issue 6	Advanced Technique For Soft Synchronizer In CHP (combined heat and power) Cogeneration
21	Prof G S Kalane	International Conference ICIEEE 2016	Nil	June-16	Nil	RVG for on-grid & off-grid distributed generation units LC filter design
22	Prof G S Kalane	Nil	International Journal of Innovative Research In Electrical ,Electronics, Instrumentation & Control Engineering	May-16	Volume 4 Issue 5	RVG for on-grid & off-grid distributed generation units LC filter design
23	Prof K B Gawale	Nil	International Journal of Advanced Engineering & global	June-15	Volume 3 Issue 6	Performance Analysis of Horn Antenna with Metamaterial Graded Index



			Technology			Lenses
24	Prof K B Gawale	Nil	International Journal of Modern Trends in Engineering & Research	June-15	Volume 2 Issue 5	Study & Analysis of Wind Diesel Hybrid System by Simulink
25	Prof K B Gawale	Nil	International Journal of Modern Trends in Engineering & Research	June-15	Volume 2 Issue 5	Study & Analysis of Wind turbine for Power Quality Assessment
26	Prof I R Kadri	Nil	International Conference on Industrial Electronics & Electrical Engg	Nov 15	Volume 4 Issue 1	Power Flow Management in a PV System Supplying DC Load
27	Prof I R Kadri	Nil	International Journal of Industrial Electronics & Electrical Engineering	June 16		Power Flow Management in a PV System Supplying DC Load
28	Prof M A Kamble	International Research in Electrical, Electronics & Communication Technology	Nil	July 16	Nil	Selective Harmonic Elimination for Five Level Inverter with Unequal DC Source
29	Prof M A Kamble	Nil	International Research Journal of Engineering & Technology	June 16	Volume 3 Issue 6	Selective Harmonic Elimination for Five Level Inverter with Unequal DC Source
30	Prof M I Wahid	Nil	An International Multy Disciplinary Journal EJETMS	March 16		Nuclear Energy & Its Present Scenario in India: A case Study



31	Prof V P Kamble	Innovation & Current Trends In Electronics & Telecommunication Engineering	Nil	April 16	Nil	Enhancement of Power quality Problem by Using DVR
32	Prof V P Kamble	Nil	IJIREEICE	July 16	Volume 4 Issue 7	Enhancement of Power quality Problem by Using DVR
33	Prof V P Kamble	Nil	IJRSET	April 16	Volume 6 Issue 1	Magnification of Power Quality Problem by Using DVR

23. Details of patents and income generated

NIL

24. Areas of consultancy and income generated

NIL

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

Srno	Name of faculty	Visiting college /industry
1	Prof.A.P.Paranjape	MIT Aurangabad
		Govt college of engineering Aurangabad
		KVBT college of Engineering Nasik.
		Sandeep foundations Nashik
		Vikhe patil college of engineering Ahmednagar
		Sinhagad college of engineering Pune
		Yeshwant rao chavan college of engineering Nagpur
		Ramdevbaba college of engineering Nagpur
		M/S Vishwash Power Engineering pvt ltd Nagpur



26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (specify)

Sr.no	Name of faculty	Name of committee/Society
1	Prof A.P.Paranjape	Corporate Member- Institution of Engineers (India) :M124598-2.
		Corporate Member-Chartered Engineer [India]: M124598-2.
		Life Member - ISTE [India]
		BOS Member- Govt. Polytechnic Aurangabad.
2	Prof.SS.Kamble	Life Member - ISTE [India]
3	Prof.S.M.Kulkarni	Life Member - ISTE [India]
4	Prof.M.S.Poddar	Life Member - ISTE [India]
5	Prof.S.V.Murkute	Life Member - ISTE [India]
6	Prof.P.D.Mohite	Life Member - ISTE [India]
		IE member
7	Prof.A.A.Tupe	Life Member - ISTE [India]
8	Prof.Vijoy Peddiny	Life Member - ISTE [India]

27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).

Sr. No.	Name of The Staff	Name of STTP/Workshop/Seminar Attended	No. of Weeks/Days	Date and Year
1	S SKamble	smart city	One week	15-19 June 2015
2		Electrical Safety	One day	09-Mar-15
3		Fundamental programming concept in matlab	Two days	13-14 sept 2014
4		women safetyat working place	One day	5th march2014
5		Design of Experiments and Optimization Techniques. (STTP)	One week	9-13 May 2016
6	S SKamble	Smart city	Two Days	28-29aug2015
7		ROBOTICS AND AUTIOMATION	One week	15-19JUNE 2015
8		Modelling and Simulation (STTP)	One week	27 June -2 July 16



9	S M Kulkarni	Statistical Techniques for data analysis in research	01	09/06/2014
10		Fundamental Programming concept in Matlab	Two days	13-14sept 2014
11		STTP on Robotics and Automation	One Week	15-19 June 2015
12		One week STTP course “Big Data Analysis” at P.E.S. College of Engineering, Aurangabad.	One Week	2-6 June2014
13		A workshop on Electromagnetic Reed, IIT Mumbai	Two Days	23-24 June 2016
14	S V Murkute	Two Days e-Yantra Training Workshop	Two Dys	19-20 Feb 2016
15		STTP on Robotics and Automation	One Week	15-19 June 2015
16		Fundamental Programming concept in Matlab	Two days	13-14sept 2014
17	M. S. Potdar	“STEDAR-2014” at GECA organized by TEQUIP Phase-II	One Week	9 th June - 13 th June, 2014
18		“Soft Computing tools and its applications in Engineering” organized by GEC, Aurangabad	One Week	3 rd June – 7 th June 2013
19		“Engineering Optimization Techniques and its applications in Research” organized by GEC, Aurangabad	Two Week	2 nd Jan – 12 th Jan, 2012
20	P D Mohite	Clean Energy and Energy Conservation 2012	Two Days	13 – 14 Oct 2012
21		NIELIT “Intellectual property Rights ”	One Day	3 June 2013
22		NIELIT “Intellectual property Rights ”	One Day	3 June 2013
23		REMECOAT 2013 TEQIP II (STTP)	One Week	16-20 Dec 2013
24		Big data analysis(STTP)	One Week	2 -6 June 2014
25		Electrical Safety	One Day	9 March 2015
26		Distributed Generation and Power Quality (STTP)	Two Day	15 -16 Dec 2015
27		Clean Energy and Energy	Two Day	5-6 March 2016



		Conservation 2016		
28		Power Electronics Applications in micro grids Enabling green Energy. (STC)	One Week	6-10 April 2016
29		Design of Experiments and Optimization Techniques. (STTP)	One week	9-13 May 2016
30	P D Mohite	FPGA Prototyping with Xilinx tools (Workshop)	One week	14-18 June 16
31		Modelling and Simulation (STTP)	One week	27 June -2 July 16
32	A ATupe	Latex For Project ,Seminar, Thesis Typesetting", Dr.B.A.M.University, Aurangabad	One Day	05 th March 2016
32	A P Paranjape	NPTEL workshop	One Day	16/03/2012
33		Recent Practices in Renuable energy.	Two Day	20/12/2013
34		Energy Concleve- 2013	One Day	14/09/2013
35		Advances in Etx. & Tc. Engg.	Two Day	25/02/2005
36		Recent Trends In HV Measurements	Two Day	10/01/2006
37		Energy Optimization & Control	Two Day	28/12/2010
38		Peaceful Uses of Atomic Energy	Two Day	07/09/2007
39		Quantitative methods of Computer Application.	Two Day	24/06/2013
40		Big Data Analysis	One week	02/06/2014
41		Matlab	Two Day	13/09/1014
42		Statistical Techniques for data analysis in research	One Week	09/06/2014
43		A A TUPE	Latex For Project ,Seminar, Thesis Typesetting", Dr.B.A.M.University, Aurangabad	One Day
44	"Scientific Writing & Publishing Scholarly Articles", by Dr.B.A.M.University, Aurangabad		One Day	4th November 2015
45	One Day Seminar on, "Mat lab Simulink for Engineering		ONE DAY	7 th November 2014



		Education”		
46		“STEDAR-2014” at GECA organized by TEQUIP Phase-II	One Week	9 th June - 13 th June, 2014
47		One week STTP course “Big Data Analysis” at P.E.S. College of Engineering, Aurangabad.	One Week	2-6 June2014
48		One week STTP course “Soft Computing” at JNEC, Aurangabad	One Week	29 th July to 2 Aug. 2013
49		One week STTP course “SCOTAPE-2013” at Government College of Engineering, Aurangabad.	One Week	3-7 June2013
50	A A TUPE	One day Workshop on “Image Processing Techniques Using Matlab-2012”, MaulanaAzad College of Arts Science & Commerce, Aurangabad.	One Day	24 Feb 2013
51		One Week STTP on “MATLAB and Simulink”	One Week	7 June-13 June 2016
52		One Day Seminar on “Electrical Safety”	One Day	9 th March 2015
53	A M Paikrao	Two Days Workshop on “Basics of MATLAB”	Two Days	13 Sept. -14 Sept 2014
54		Rainfall enhancement using high voltage Electrical Technology, Institution of Engineers(India)	One Day	7/6/16
55		Energy Conclave- 2013, Rama International Abd	One Day	14/09/2013
56		Energy Conclave- 2014, Rama International Abd	One day	08-09-2014
57	A S Pande	One Day Seminar on “Electrical Safety”	One Day	9 th March 2015
58		Two Days Workshop on “Basics of MATLAB”	Two Days	13 Sept. -14 Sept 2014
59	V K Peddiny	One Day Seminar on “Electrical Safety”	One Day	9 th March 2015
60		Two Days Workshop on “Basics of MATLAB”	Two Days	13 Sept. -14 Sept 2014



61		Rainfall enhancement using high voltage Electrical Technology, Institution of Engineers(India)	One Day	7/6/16
62	R U Magre	One Day Seminar on “Electrical Safety”	One Day	9 th March 2015
63		Two Days Workshop on “Basics of MATLAB”	Two Days	13 Sept. -14 Sept 2014
64		One Week STTP on “ROBOTICS”	One Week	22 nd May-27 th May 2015
65		Rainfall enhancement using high voltage Electrical Technology, Institution of Engineers(India)	One Day	7/6/16
66	Md. IrshadWaheed	Embedded Systems at Dr BAMU University		
67		Everest College of Engineering and Technology, Aurangabad.		
68	K B Gawale	“Smart Grid: Perspectives in Cyber Security”, VeermataJijabai Technological Institute (VJTI), Matunga (East), Mumbai -400019	One Week	Jan 2014
69	B. Kunal Kumar	“Environment studies organized by IIT, Bombay	10 Days	June 2015
70	B. Kunal Kumar	One Day Seminar on “Electrical Safety”	One Day	9 th March 2015
71	G S Kalane	3 days industrial Training organized by MSBTE	Three Days	2015
72		8 days industrial Training organized by Supreme Electrical and Switchgear	Eight Days	2016
73		Rainfall enhancement using high voltage Electrical Technology, Institution of Engineers(India)	One Day	7/6/16
74	V P KAMBLE	Design analysis operation of power system ETAP software	3 dya	2014
75		Fundamental Programming concept in MATLAB	2 DAYS	13-14 SEPT 2014
76		Simulation Advanced MATLAB	One Week	Jan 2015



		software		
77		Electrical Safety	One Day	9 th March
78	P P Fulzhele	One Day Seminar on “Electrical Safety”	One Day	9 th March 2015
79	P S Kamble	One Day Seminar on “Electrical Safety”	One Day	9 th March 2015
80	I R kadri	Two Days Workshop on “MATLAB Workshop”	TwoDays	Sept 2014
81		Design analysis operation of power system ETAP software	3 dyas	2014
82		One Day Seminar on “Electrical Safety”	One Day	9 th March 2015

28. Students’ projects.

- **Percentage of students who have taken up in-house projects including inter-departmental projects.**
 - 2. 100%
- **percentage of students doing projects in collaboration with other universities / industry / institute**
- 3. 10% of the students are doing projects in collaboration with industry.

29. Awards / recognitions received at the national and international level by

- **Faculty**
- **Doctoral / post-doctoral fellows**
- **Students**
NIL

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Sr no	Seminars/workshops	Duration	Month & year
1	University Syllabus design	01 day	2013
2	IEEE chapter MATLAB programming	03 days	2014
3	Workshop arranged on Electrical safety	01 day	9 March 2015

31. Code of ethics for research followed by the departments

NA



32. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
Under graduate (2015-16)	44	41	03		
Under graduate(2014-15)	66	56	10		
Under graduate(2013-14)	106	79	29		
Post graduate (M.E.) (2015-16)	18	11	07		

33. Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
Under graduate (B.E) (2015-16)	38	06	Nil	Nil
Under graduate (B.E) (2014-15)	48	17	01	Nil
Under graduate (B.E) (2013-14)	70	35	01	Nil
Post graduate (M.E.)	100%	Nil	Nil	Nil

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise

	Civil services/engineering services	GATE/IELTS
Number of students cleared	01	10

35. Student progression

Student progression	Percentage against enrolled
UG to PG	16%
PG to M.Phil,DM / M Ch / DNB	--
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	50%
Entrepreneurs	1%



36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	88%
from other universities within the State	08%
from universities from other States	04%
from universities outside the country	00%

37. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period

NIL

38. Present details of departmental infrastructural facilities with regard to

a) Library

The library consists of over 30 reference and text books, besides, The project reports gathered annually from all the students are also accessible.

Sr. No.	Title Of Books	Author	No. Of Copies
1	Electrical Engineering Materials	K. B. Rana, S. K. Bhattacharya, T. Joneja	1
2	Electrical Engineering Materials	Navneet Gupta	1
3	Principles of Micro processor Systems	V. J. Vibhute, N. G. Palan, P. B. Borale	1
4	Electrical Power	Dr. S. L. Uppal	1
5	Electrical Technology	Edward Hudghes	1
6	Electronic Devices and Circuits	Sanjeev Gupta	1
7	Linear Integrated Circuits	D. Roy Chaodhury	1
8	Object Oriented Programming with C++	Balgurusamy	4
9	Engineering Electromagnetics	William Hyte, Jr	1
10	Electromagnetism	John C. Slaternnathanieln Frank	1
11	Elements of Electromagnetic Field	S. P. Seth	1
12	Servicing of Transistor Receiver	F. R. Pettit	1
13	Basic Electronics Lab Manual	Z. Bar MalvinoMillei	1
14	Numerical Computational Techniques	R. M. Baphana, R. A. Barapatte	1



15	Numerical Techniques	J. S. Chitode	1
16	Programming with C++	Ravichandran	1
17	Object Oriented Programming & C++	R. Rajaram	1
18	Elements Of Electrical Power Station Design	Prof. M. V. Deshpande	1
19	Transistor Circuit and servicing	B. R. A. Bettridge	1
20	Electrical Network	S. M. Rajbhoj, S. Satyanarayan	1
21	Automatic Control System	Benjamin C. Kuo	1
22	Data Communication	Suhas G. Sahade	1
23	Digital Control Engineering	Gopal	1
24	Advance Computer Architecture	S. R. Bhutiyani	1
25	Solid State Devices and Circuits	S. P. Balli	1
26	Circuit Theory	A. Chakravarti	1
27	Microprocessor 8086	K. Arun , Prof. Mrs. Yshodhara R. M.	1
28	INDIA 2003	Not Specified	1

b) Internet facilities for staff and students

A fully equipped computer lab with a leased-line broad band internet connection is available for use by staff and students.

Number of computers	Configuration	Computer to student ratio	Stand alone facility	CAN facility	Wifi Facility	Licensed Software's	Number of nodes /computer with internet facility
72	1)30Pcs are of HCL & IBM make p iv 512MB/1GB RAM ,80GB HDD, win 7 OS 2)18 Pcs ;DELL make ,i5,4GB RAM,500GB HDD, Open source 3)28 Pcs DELL make , i5, 2gb ram,500 GB HDD,3.2 GHZ.	5	40	32	NO	PSCAD-5USER, ETAP-5 USER, MATLAB – 5 USER	32



c) Total number of class rooms

There are 5 classrooms are available for the department.

d) Class rooms with ICT facility and 'smart' class rooms

NIL

e) Students' laboratories

Total Nos. of laboratories in the dept. - 11.

- 1.Switchgear & protection lab
- 2.Electrical measurements lab
- 3.Electrical machines lab
- 4.Control systems engineering lab
- 5.Power electronics Lab
- 6.Micro processor Lab
7. Electrical Network Analysis lab
- 8.Basic electrical engineering lab
- 9.Analog and digital electronics lab
- 10.Industrial Automation lab
- 11.Electrical Materials lab

f) Research laboratories

NIL

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

b) from other institutions/universities

NIL

40. Number of post graduate students getting financial assistance from the university.

All the stipulated reserved category students are getting financial assistance from the Government as per rules.

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology.

The following assessment procedure is carried out before the development commencement of new program (PG)

- 1) A general survey of all the seats available in the UG and PG courses in the relevant branches of all the colleges in the region is carried out.
- 2) A comprehensive analysis of all the graduating students from Electrical branch throughout the region and state is carried out. Subsequently, the total available seats in M.E. in the field of electrical engineering in the state are also considered.
- 3) The procedure is followed up with the different available sub branches of electrical



engineering in the course of Master of engineering.

This surveillogical step gives a brief idea about the availability and popularity of any given course if electrical branch in M.E.

4) Furthermore, as a part and parcel of industry –institute interfacing, the institute conducts a questionnaire based survey which depicts the technological inclination and preference of budding engineers and technocrats.

Besides, Customized opinions from people who have gained expertise in the concerned technical field is also gathered. This helps to understand the changing and developing patterns of the rapidly advancing technology. Based on the above criteria, the relevant branches in new courses are introduced.

5) Finally, for starting any new course of M.E. interviews and informative sessions are held with the faculty of other institutions where the proposed courses already exists.

42. Does the department obtain feedback from

d. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

e. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

f. Alumni and employers on the programs offered and how does the department utilize the feedback?

Yes.

a. The faculty aims to discover ,develop and implement newer and newer methodologies of Outcome Based Education.

1) studying and revising the existing curriculum periodically so as to integrate the latest technological advancements and innovations in the curriculum .

2) Reviewing the curricular of other universities and autonomous institutes in the process of devising /updating a curriculum.

In this process stress is laid on plotting in place the usage of teaching aids and a well organized evaluation criteria..

The teaching learning evaluation methods employed by other well known universities and colleges are also carefully reviewed each faculty in the department is instructed to analyze the curriculum and the existing teaching –learning evaluation method and record their observations besides specifying the areas and scope of improvement and how to achieve them.

b) All the students are provided with a sectionalized feedback from which asks them to voice their opinions in writing regarding the teaching methodology of the staff curriculum and the teaching learning evaluation.

The feedback information is then processed and analyzed. A department meeting is held consequently and in the light of mutual consultation by staff and constructive criticism offered by students’ new policies and decisions are made.

c) Yearly meetings are held for the purpose of gathering all the alumni. Suggestions and further development strategies are given as inputs by the alumni in these yearly meetings.





P.E.S.COLLEGE OF ENGINEERING

NagsenVan, near Panchakki Aurangabad-431001\

ALUMNI FEEDBACK FORM

We shall be thankful to and appreciate you, if you can spare some of your valuable time to fill up this feedback form and give us your valuable suggestions for further improvement of the Institute. Your valuable inputs will be of great use to improve the quality of our academic programs and enhance the credibility of the Institute. Hence your feedback on Institute will help us to improve our approach in Academics. Please fill the feedback form and mail us toapp1911@pescoe.ac.in or Can give in Personally in the Dept.

Name of the Alumni: Bargaje gurudas maruti

Degree [√] B.E [EEP]

Branch : EEP

Passing Year: 20132014

Professional Details ----- Preparing for IES at Delhi.

Organization Name-----

Designation-----

Joined Year

Dear Alumni,

Please give your overall assessment of our Institute academics. Please rate us on following criterion:

1Unsatisfactory(UN), 2Satisfactory(S), 3Fair(F), 4Good(G), 5Very Good(VG) Sr. Details
VG G F S

1 Environment--- 5

2 Infrastructure & Lab facilities--- 5

3 Faculty ---5

4 Project Guidance --- 5

5 Quality of support material--- 4

6 Training & Placement---- 3

7 Library --5

8 Alumni Association/ Network of Old Friends--- 5

Please suggest any skills you want our Institute should focus on for grooming of students. All of your suggestions are welcome.

Suggestions:

Relevance of curriculum in your Job:



Need any change in curriculum and syllabus:

Improvements in teaching and learning Process:

_____ while teaching faculty should explain practical importance of subjects and future scope of particular subjects. there should be more focus on practicals along with classroom coaching. _____

Have you learned the basic concept through your Project ? _____ project was one of the best thing of my undergraduate course. i learned so many concepts of engineering throughout my project work. some of thing i learned while doing my project work are the managerial skills, material management and inter relation of electrical engineering with other branches like civil, mechanical, and of course at some point of time computer science too. no branch of engineering can work independently. The thing i learned through my preject was importance of learning basics of other branches of engineering with proficiency in our own branch of engineering.

i was prevelidged to get prof. a p. paranjape as my project guide. He gave me a new vision to learn engineering and always encouraged me to do things better and to use my potential to the best level. i will be always thankful to him.

Any other suggestions/comments:

_____ there should be effective communication between students and college management. this feedback patterns always helps us to improve. there is no doubt that our college is performing well but there is always scope for improvement. College authority should create a new email for feedback purpose exclusively for student. for every little suggestion suitable correcting measures should be adopted.

second thing i would like to request you that college should arrange placement programmes in large number. _____

Bargaje Gurudas M.
Signature



43. List the distinguished alumni of the department (maximum 10)

44.

Sr.No	Name of the alumnus	Year of passing	Current designation	Address of company	Contact no
1	Mr.Sandeep M. Mahabale	1998	Manager	Tata Power co Ltd Mumbai	9223507015
2	Mr.Bugade Vilas S	1998	Asst.Proffessor	DYPIET,Pune	9922841809
3	Mr.Chetansingh chahan	2006	Application Programmer	IBM Pune	9890999097
4	Mr.Ravi R. Estake	2006	Executive Engineer	Jalgaon maharashtra	9730089376
5	Mr.Biraresachin kandiram	2008	Junior Engineer	Mahatransco	9423072882
6	Mr.VikramSataye	1998	IT Analyst	TSC Pune	9767120780
7	Mr.Dhawan A mudholkar	2000	Design Engineer	Jacobs House Mumbai	9820145297
8	Mr.Mahesh v kulkarni	2003	Marketing engineer	Aurangabad	9420239612
9	Mr.DubileDatta A.	2008	TTA	BSNL Gangapur	9421408801
10	Mr.Dhammadeep Narwade	2015	Executive Trainee	PGCIL	

45. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.

SrNo	Seminar/special lecture Topic	Name of Expert	Date
1	IEEE chapter MATLAB programming	03 days	2014
2	Electrical safety	Experts from different industries	09-03-2015
3	Aptitude	Mr.Satish Kulkarni	2015
4	PLC and Automation	Mr.Sanjay Gawade	21-07-2016
5	Hardware implementation of converters/Inverters	Prof.Rahul V. Chakole	04-08-2016



46. List the teaching methods adopted by the faculty for different programs including clinical teaching.

1. Traditional engineering education like Virtual Class room, LCD projector, Smart Classes, Video Conferences, Guest Lectures.
2. Asking students to use state-of-the-art technologies/software to solve problems.
3. Training students to engage in self-study without relying on faculty (for example – library and internet search, manual and handbook usage, etc.)
 - i. Library, Net Surfing, Manuals, NPTEL Course Materials published in the website and other university websites.

- Modes of delivery of courses :

Teaching Learning media:

- Board activity – chalk and talk
 - Prototype models- in Labs like Switch gear & Protection
 - Short seminars by students.
 - Rapid fire: Arranged During Events.
 - Quizzing: Arranged During Events.
 - Group discussions: Arranged between the students of each Project Group.
 - Text books: Available in Library.
 - Charts and drawings- In Labs.
 - Demonstration- During Industrial Visits.
 - Audio visual aids- L.C.D. Projector in the department
 - Software like MATLAB, ETAP , PSCAD,
- Apart from teaching in the class room visits to subject related industries and power sectors like substation and power plants are arranged so as to improve the practical knowledge of the student. For skill development Workshops and trainings such as MATLAB,PLC ,SCADA,SAP etc. are arranged with the collaboration. Which will improve the students practical performance.
 - Self-learning is promoted in the institute by generating self-learning facilities under various modes.
 - Web-based Learning: Using NPTL facility available via Intra net for students.

The students may select and examine from a large pool of information only those pieces necessary to meet their learning objectives. Hence, the potential of the Internet self-learning mode is considered to be very high. The institute has created Central internet facility with 10 Mbps leased line and 100 computer terminals facility to promote and motivate students to self-learning.

- Learning with Multi-media:
Availability of course material on intra-net Digital library facility



47. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?

- By effective implementation of OBE.
- The department has in place an effective monitoring process through which successful implementation and need for improvement of program objectives and learning outcomes are ensured.
- Through an elaborate method of analysis, the qualitative and quantitative performance of all the students for all the courses is done sequentially. This gives a general idea about the vulnerable spots in the program objectives and information of the performance statistics of any student on the whole.
- Reformative action is this taken to make amends in the program objectives and the student performance .learning outcomes are monitored at the conclusion of every course and program. The data obtained is further utilized for making necessary changes and predictive outcome.

48. Highlight the participation of students and faculty in extension activities.

Highlight the participation of students in extension activities.

Students participate in various curricular, co-curricular and extracurricular activities this creates a general awareness about a representation of the department and college on a social scale.

49. Give details of “beyond syllabus scholarly activities” of the department.

The department promotes the formation of association clubs for students under the banner of such department association clubs students are provided a platform to organize technical and non technical events promote and contribute towards corporate social responsibility such as tree plantation, cleanliness drives etc. and self development activities such as technical events and competitions.

50. State whether the program/ department is accredited/ graded by other agencies? If yes, give details.

NIL

51. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The department faculties are encouraged to develop research topics and strengthen them by participating in paper presentations and publications and other technical events.

52. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.



53. SWOC ANALYSIS OF ELECTRICAL ELECTRONICS AND POWER DEPARTMENT

INTERNAL SCANNING

Strong Points:

1. Good management/Good leadership

The department is governed by a set pattern of leadership and management that has gained expertise over the past 20 years.

Some of the prominent points are

- 1) An elaborate documentation process.
- 2) Well-laid semester activities
- 3) Routine evaluation of students.
- 4) Staff evaluation
- 5) Motivation of encouragement to staff and students.

2. Qualified staff

- 1) The department possesses well trained, qualified and experimented staff with a varied and versatile teaching experience
- 2) A majority of the teaching staff have secured their masters degree in electrical engineering.
- 3) Some staff members are perusing PhD.
- 4) Drive of “continues and never ending self –improvement” is promoted throughout the academic year to develop the skill set of existing staff members.

3. Team work

- 1) The department of electrical engineering creates various opportunities to be a part of team activities.
- 2) The various tasks and activities in the department are formulated such that they can get the best out of a team and at the same time promote the values of team spirit and team work.
- 3) The team work activities facilitate the learning new skills and knowledge amongst staff and students.

4. Well-equipped laboratories

- 1) The department of electrical engineering has well equipped labs that cater to the needs of the syllabus.
- 2) Moreover, the labs are continually updated keeping in mind the ever changing demands of the syllabus.
- 3) The labs are furnished with state of the art furniture, informative charts & diagrams & cupboards.



- 4) Routine & preventive maintenance is regularly carried out.
- 5) The class rooms, laboratories of staff cubicles are available as per the needs and possess all the requisite furniture furniture and materials.
- 6) Resources such as department library, study material, manuals and journals are provided to out.
- 7) The staff has access to all the needed sources such as books, stationary etc.

5. Final year results

- 1) The final year results are evaluated on a yearly basis and necessary changes are made wherever needed.
- 2) The result analysis of previous years is carried out and subjects of below satisfactory level are identified.
- 3) Feedback of B.E. students is done on a regular basis.

6. Liberty to staff

- 1) The staff is provided a flexible working and learning environment.
- 2) Participation in curricular activities in other college and universities is made possible by a simple procedure.
- 3) Innovative thinking and ideas which customize the teaching –learning evaluation and created positive results are also encouraged by the Department of electrical engineering.

7. Results

- 1) The teaching learning scheme has an empirical approach in the Department of electrical engineering due to which there is a considerable improvement in the final results of the department since the past few years.
- 2) Besides, the cumulative results of Department of electrical engineering are comparatively higher in the university as referred to other colleges.
- 3) Monitoring of weak students is carried out regularly to improve the results of weak students.

8. Work culture

The department has a very conducive work culture which promotes self development, mutual co-operation, continues learning and enthusiasm for each and every task/activity.

The head of the department has a very encouraging attitude which helps to bring out the best in all faculty members and students. Besides this, there is also a general atmosphere of imparting quality education to students and focus and improvements in outcome based education (OBE).



Weak Points;

1. Soft skills in students

Remedial action under taken by the Dept.:-

- 1) Students are encouraged to take part in soft skills training and development programs, with sharing some percentage of the fees by college.
- 2) The Dept. of Electrical Engg. arranges personality development and communication skills seminars at frequent level.
- 3) The soft counsel and guides students to adopt various extracurricular activities and hobbies to build up soft skills such as debates. Reading, writing and training session.

2. Students Self-learning

Remedial action under taken by the Dept.:-

- 1) Students are ill aware of the latest technological trends and therefore are instructed to take part in various technological events in and outside the institution.
- 2) The students are made to realize the importance of various management philosophies which can help them to better organize their time and resources through various events.

3. Research staff

The department of electrical engineering has no professor as a research guide

4. Poor Employability

Opportunities:

1. Industrial training center

- 1) The department offers a sound possibility of offering training platforms thus making students industry ready and capable enough to handle an industrial environment.
- 2) The department is planning to have a High voltage testing center which can be used for further research and development and practical applications by students.

2. Interdisciplinary projects/Diversified Projects

- 1) The department has some interdisciplinary projects since the last few years where students from the department collaborated with the students of other departments in making interdisciplinary projects. In addition to this faculty members from all the disciplines of the engineering college, emphasize on the value and significance of interdisciplinary projects.
- 2) The electrical engineering department is the process of guiding students and staff for project works, points out the importance of making environmentally sustainable projects and those projects which help to minimize the carbon footprints of the organization.

This and other such experimented schemes are carried for implementing diversified projects.



3. Synthesizing competencies/technology

- 1) With the advent of new technology e learning, ICT(Information and communication technology) it has become mandatory for the educational institutes to keep pace with the growth of the learning curve. As such, technological advancements such as e-learning ,smart classes ,project report software such as Latex etc. are integrated into the academic schedule.
- 2) To upgrade the competitiveness of the students and faculty, workshops, seminars, STTPs, trainings and lecture talks and guest lectures are arranged occasionally.

4. Modules/ Certifications

Due to the long-standing reputation and establishment of EED, well-equipped labs and experienced faculty, Teaching –Learning modules and certification courses have a scope to be initiated by the department.

Electrical maintenance and testing module ,Mat lab certification course, soft-skills development course , etc are a few of such courses at the nascent/ proposed stage.

5. Research work

Due to the existing infrastructure and extension scheme, the potential for establishing a research and development center has improved.

Through some preliminary planning and workshops, a research work center can be formed in the near future.

6. Sponsorship for projects and staff

The department evaluates the feasibility and viability of project model and subjects it to a SWOT analysis. If the proposed project is found to be viable, it is forwarded to the society management. The staff members are given provision of sponsorship programs; wherein they can participate in STTPs, workshops and other such training programs.

Challenges:

1. Attracting and developing Qualified/competent & experienced staff

With the thorough norms of appointing approved and qualified staff and upgrading the competence and experience of the existing staff, it has become an important aspect for the department of electrical engineering to overcome and conform with.

2. Quality

A lot of industries recruit students with an all – around academic and extracurricular background , which is directly related to the quality of students .

In addition , since there is always a scope of improvement as regards to outcome –based education , and teaching learning evaluation and methodology , it is nothing short of a challenge that needs continues and persistent efforts to tackle.



3. Attracting meritorious students

The department endeavors to integrate high rankers and meritorious students in its discipline/program through the following measures.

- 1) Highlighting the successful results of the department in university exams.
- 2) Showcasing the various facilities, resources, workshops, technical events held.
- 3) Feedback from alumni of the department.
- 4) Highlighting the presence of talented and experienced faculty in the department.

54. Future plans of the department.

Future plans of the department:

- 1) The department aims to develop a fully functional teaching –learning evaluation and all around students who have a holistic approach towards solving and analyzing problems.
- 2) The department plans to have a research Centre wherein students get extensive research facilities.
- 3) The department proposes to create social awareness and responsibility in students in addition to imparting world class and quality technical education through training programs, activity drives and interactive forums.



3. Evaluation Report of the Electronics and Tele-Communication Department

1. **Name of the Department:** Electronics and Telecommunication Engineering
Before two years it was Electronics Engineering.
 2. **Year of establishment:** 1994 (with intake capacity of 30; in the year 2000, it was increased to 60).
 3. **Is the Department part of a college / Faculty of the university? :** Part of a college and affiliated to Dr. Babasaheb Ambedkar Marathwada University.
 4. **Names of programs offered:** UG
 5. **Interdisciplinary programs and departments involved:** CSE (1 subject), EEP(1 subject), FE(1 subject)
 6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
 1. Training courses for TE and BE students in collaboration with IGTR, Aurangabad. So far three such courses of one week each have been conducted in the department viz. PLC Programming, VLSI Programming and Embedded Programming.
 2. Web-based training at Endress+Houser, Waluj, Aurangabad
 3. SAP Training Module
 4. Spoken English Tutorials
 7. **Details of programs discontinued, if any, with reasons:**

The nomenclature of the course at the beginning was “Electronics Engineering” with an intake capacity of 30, later in 2000 it was increased to 60, and in 2015 it is converted to “Electronics and Telecommunication”, as per the permission of DTE and Dr.B.A.M.University for change in the branch name.
 8. **Examination system: Annual / Semester / Trimester / Choice based credit system:**
Semester system (Two exams in each Academic year)
 9. **Participation of the department in the courses offered by other departments:** One subject
 10. **\Number of teaching posts sanctioned, filled and actual:**
-



	Sanctioned	Filled	Actual (including CAS and MPS)
Professor	1	1	1
Associate Professor	2	2	2
Assistant Professor	10	10	10
Lecturer	No such post now		

11. Faculty profile:

Name	Qualification	Designation	Specialization	No. of years of exp.
Dr. V.K. Kadam	Ph. D.	Professor	Digital Signal and Image Processing	21
Mr. S.S. Khedgikar	ME-EC	Associate Professor	Microcontrollers	22
Mr. V.V. Kulkarni	ME-EC	Associate Professor	Power Electronics	23
Mr. S.C. Kathar	BE-ECT	Assistant Professor	Robotics	16
Mrs. P.K. Ghuge	BE-ECT	Assistant Professor	Digital Electronics	10
Mrs. J.P. Zine	ME-EC	Assistant Professor	Control Systems	10
Mrs. M.R. Rajput	ME-EC	Assistant Professor	Embedded Systems	10
Mrs. A.P. Kharat	ME-EC	Assistant Professor	VLSI Design	10
Mrs. V.R. Kshirsagar	ME-ECT	Assistant Professor	Signals and Systems	09
Mr. S.F. Bankar	BE-EC	Assistant Professor	Computer Communication	09
Mr. N.T. Kolambikar	ME-ECT	Assistant Professor	Electromagnetic Engg	06
Mr. A.A. Shirsath	ME-ECT	Assistant Professor	Network Analysis	03
Mrs. R.M. Jadhav	ME-ECT	Assistant Professor	Electronic Devices & Ckts.	07

12. List of senior visiting fellows, adjunct faculty, emeritus professors: Nil

13. Percentage of classes taken by temporary faculty – program-wise information:
Nil



14. Program-wise student teacher ratio: As per sanctioned intake:

Sr. No.	Total number of students in the department	Number of staff members in the department	Student-Teacher ratio
1	As per intake: 180	13	13.84
2	At actual: 28(SE)+46(TE)+52(BE)	126	9.69

15. Number of academic support staff (technical) and administrative staff: Nil

16. Research thrust areas as recognized by major funding agencies:

Basic knowledge of circuit designing, testing and analysis. An MOU with Texas Instruments resulted in an Innovation Lab at the department, wherein six projects are allotted this year to undergraduate students.

17. Number of faculty with ongoing projects: Two of our staff members are in the process of completion of Ph. D. degree.

18. Inter-institutional collaborative projects and associated grants received: Nil

19. Departmental projects funded:

* One project of 2013-14 was funded by the institute for ISTE competition

* Lot many other projects are sponsored by various industries.

20. Research facility centre:

Knowledge Centre, equipped with licensed softwares and with the inclusion of Innovation Lab funded by Texas Instruments, research activities are started. This year, six project groups of final year are working on the project themes suggested by Texas Instruments.

21. Special research laboratories sponsored by / created by industry or corporate bodies:

TI lab (Texas Instruments Laboratory) sponsored by M/s, EdGate Technologies, Bangalore. Six analog trainer kits are received under this MOU. Innovative project themes are suggested and enrolment of students for the online competition is subsequently carried out.



22. Publications:

Sr.No.	Name of the Staff	Details of Papers/Publications in Journals & Conferences
01	Dr. V.K. Kadam	<ol style="list-style-type: none"> International Journal: Performance Analysis of Optimization Tool for Speech recognition using LPC & DSK TMS3206711/13 Using Simulink & MATLAB. Volume 2, Issue 5. (IJER – 2013). International Journal: Optimization of Speech Recognition Using LPC Technique, ISSN: 2250-3021 vol 2, Issue 8. (IOSRJEN – 2012). International Journal: International Journal: Performance Analysis of Optimization Tool for Speech recognition using LPC & DSK TMS3206711/13. ISSN: 2230-7109. Vol 3 , Issue 3. (IJER – 2012). Paper on “Optimization Tool for Speech Recognition”, Proceedings of IJECT Vol. 1, Issue 1, December 2010. ISSN: 2230-7109 (Online) Paper on ‘An Optimized Integrated Cooling, Heating and Power Generation system for buildings’, Proceedings of National Conference on Non-conventional Energy sources and Rural Economy, at The Institution of Engineers (India), Nagpur. Paper on IGBT Drive on “New PWM Strategy for Wind and Other Applications”, Proceedings of International conference on Wind Energy: Trends & Issues at NITTTR, Bhopal. Paper on “Performance Analysis Using MATLAB of DSP Based dB Level Meter”, Proceedings of ELCON’05 at National Engineering College K.R. Nagar, Kovilpatti, Tamilnadu. Paper on “Multichannel Signal Processing Using TAS5508 & TAS5121”, Proceedings of BICON-2005 at Bharti Vidyapith, Pune Paper on “Field Strength Measurement of FM Signal Using DSP”, Proceedings of National Conference on Advance in Electronics & Telecommunication Engineering 2005, COEO.
02	Mrs. M.R. Rajput	<ol style="list-style-type: none"> International Journal: “Iris Feature Extraction & Recognition Based on Difference Transforms. “ (IJERD – 2013), Hyderabad. Volume 09, Issue 02,ISSN No.2278-800X International Conference: Presented a Paper on ‘ Iris Biometrics survey 2010-2015’ in IEEE international conference RTEICT2016 , 20th & 21st May 2016.The same will be published on IEEE Explore in month of September 2016.
03	Mrs. A.P. Kharat	<ol style="list-style-type: none"> International Conference on Recent trends in engineering and technology: Evaluation for Charging & Discharging Behaviour of Inverters (March 2012), Pune.
04	Mr. S.F. Bankar	<ol style="list-style-type: none"> International Journal: Implementation of RELP on TMS320C6711”in IJERT, June - 2015. International Conference: Residual Excited Linear Predictive Coding (ICORT -2012), Pune.
05	Mrs. V.R. Kshirsagar	<ol style="list-style-type: none"> International Conference: PC Based National Border Security System organized by ASAR- Nagpur-May 2012. International Conference: Wireless network :Standard and its applications ASAR Conference (2013), Hyderabad.4th Aug 2013.
06	Mr. A.A. Shirsath	<ol style="list-style-type: none"> International Conference: Multi Country Currency Recognition Using PCA. (ICACC-2014) IEEE,Kochi, Kerala Section. International Conference: Paper entitled “Iris based attendance system” published in (IJARCET), ISSN: 2278 –1323, pp3329-3332, August, 2015. International Journal: Multi Country Currency Recognition Using PCA. Published by Mc Graw Hill Education. PP145-149, (2014) International Journal: “Survey of Currency Recognition System Using Image Processing” Published in Computational Engineering Research. (IJER) PP36-40. (2013). International Journal: Paper entitled “A Review of Paper Currency Recognition System” published in the journal IOSR, ISSN: 2278-8727, March-April 2013.



23. Details of patents and income generated:

- * One of our students Mr. Sagar Dalvi (2013-14) has applied for patent of his final year project work “Electrically Controlled Wheel-Chair”. The test for validity and implementation of this patent work is scheduled in December 2016.
- * One more student of the next batch (2014-15) has also applied for his patent work on transmission and reception of data between two Wi-Fi devices, simultaneously.

24. Areas of consultancy and income generated: Nil so far, but with the inclusion of Texas Innovation Lab, this will be started soon. Additionally the PCB lab will be well-furnished for necessary consultancy works.

25. Faculty selected nationally / internationally to visit other laboratories / institutes / industries in India and abroad:

Dr. V.K. Kadam has selected and successfully completed two week training course for CCNA module.

26. Faculty serving in

a) **National committees:** Eight of our staff members are the members of ISTE.

b) International committees:

- * Dr. V.K. Kadam is a member of IEEE.
- * Mrs. M.R. Rajput is also an IEEE member.

c) Editorial Boards:

- * Dr. V.K. Kadam and Mr. S.S. Khedgikar are the members of Technical Paper Review Committee.

d) any other (please specify): Examiner panel

- * Dr. V.K. Kadam is a member of examiner panel for PG degree
- * Dr. V.K. Kadam is also a member of staff selection committee (UG and PG)
- * Mr. V.V. Kulkarni is a member of staff selection committee (UG)

27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs): The faculties of the department are promoted and supported to attend the refresher programs. Following table shows the details:



A Summary is given below:

Sr. No.	Name of the Staff	Details of Staff Development Programs
01	Prof. Dr. V.K. Kadam	1. International Conference: One day workshop on CISCO- Connect Now Event – Connect to grow organized by CISCO, Bengaluru, India – April 2014.
02	Prof. S.S.Khedgikar	1. One day workshop on “Role of Facilitation Centers” for Engineering Admissions-2016, on 3 May 16. 2. National Workshop: One day workshop on “Public Awareness to telecom Sector” conducted by Telecom Regulatory Authority of India (TRAI), Bangalore Division-2016. 3. National Conference: ISTE Sponsored (New Delhi) One week S.T.T.P on Robotics & Automation –June 2015.
03	Prof. V. V. Kulkarni	1. One day Satellite Telecommunication training Program at Institute of Satellite Telecommunication Pvt. Ltd, Pune-2016. 2. STTP on Power Electronics Applications at NIT Warangal under TEQIP from 14 th to 18 th October 2013. 3. STTP on Implementation of power Electronics systems at SVNIT, Surat from 29 th December 2014 to 2 nd January 2015 4. Task based training on robotics at Third e-Yantra Symposium at IIT Mumbai from 11-04-2016 to 13-04-2016.
04	Prof. S.C. Kathar	1. National Conference: ISTE Sponsored (New Delhi) One week S.T.T.P on Robotics & Automation –June 2015.
05	Prof. P.K. Ghuge	1. National Workshop: One day workshop on “Public Awareness to telecom Sector” conducted by Telecom Regulatory Authority of India (TRAI), Bangalore Division-2016. 2. National Conference: Workshop on Research Trends in Engineering & MATLAB as Scientific Tool for Research, Nashik- 2013. 3. National Conference: One Day Workshop on Image Processing Technique Using MATLAB 2012, Aurangabad – February 2013. 4. National Conference: Two day Workshop on Microcontrollers & its Applications, Aurangabad- July 2013. 5. National Workshop: One Day Workshop on MATLAB & SIMULINK for Engineering Education held by Mathworks India Pvt. Ltd., Aurangabad- Nov 2014. 6. National Conference: ISTE Sponsored (New Delhi) One week S.T.T.P on Robotics & Automation –June 2015. 7. National Conference: Two Day Workshop on Free & Open Source Software, Aurangabad, Dec, 2013.



		<p>8. National Level Workshop: Four days workshop on MATLAB, Simulink and Low Cost Design Using Signal & Image Processing Toolbox”, December 2015.</p>
06	Prof. J.P.Zine	<ol style="list-style-type: none"> 1. National Conference: Two day workshop on “Exploring the World of Electromagnetics”at ICEEM, Aurangabad – 2015. 2. National Workshop: One Day Workshop on MATLAB & SIMULINK for Engineering Education held by Mathworks India Pvt. Ltd., Aurangabad- Nov 2014. 3. National Conference: Workshop on Research Methodology at MIT Aurangabad – Aug 2013 4. National Conference: Two day Workshop on Microcontrollers & its Applications, Aurangabad- July 2013. 5. National Level Workshop: Four days workshop on MATLAB, Simulink and Low Cost Design Using Signal & Image Processing Toolbox”, December 2015.
07	Prof. M.R. Rajput	<ol style="list-style-type: none"> 1. One day Satellite Telecommunication training Program at Institute of Satellite Telecommunication Pvt. Ltd, Pune-2016. 2. National Workshop: IETE Certified One week FDP on “Soft Computing ANN & Fuzzy Application in Engineering at DIEMS, Aurangabad, 30th Nov 2015 to 5th Dec-2015. 3. National Workshop :MATLAB ,Simulink and Low Cost Design using Signal & Image Processing Toolbox Maharashtra Institute of Technology, Aurangabad, 16th to 19th December 2015 4. National Workshop: Research Trends in Engineering and MATLAB as a Scientific Tool in Research, at MET’s Institute of Engineering, Nashik, from 8th Feb 2013 to 10th Feb 2013. 5. IEEE International Conference RTEICT 2016 at Bangalore from 20th May 2016 to 21st May 2016.
08	Prof. A.P. Kharat	<ol style="list-style-type: none"> 1. National Conference: IETE Certified One week FDP on “Soft Computing ANN & Fuzzy Application in Engineering at DIEMS, Aurangabad, 30th November 2015 to 5th Dec-2015. 2. National Workshop :MATLAB ,Simulink and Low Cost Design using Signal & Image Processing Toolbox Maharashtra Institute of Technology, Aurangabad, 16th to 19th December 2015 3. National Workshop: Exploring the World of Electromagnetism, at ICEEM, Aurangabad, from 16th Jan 2015 to 17th Jan 2015. 4. National Workshop: FPGA based Digital System Design With Application, at DIEMS, from 20th June 2016 to 25th June 2016.
		<ol style="list-style-type: none"> 1.



09	Prof.V.R.Kshirsagar	<p>2. State level workshop:Exporing the world of Electromagnetics,ICEEM,Aurangabad,16th and 17th January,2015.</p> <p>3. National Workshop :MATLAB ,Simulink and Low Cost Design using Signal & Image Processing Toolbox Maharashtra Institute of Technology, Aurangabad, 16th to 19th December 2015.</p> <p>4. National Level Workshop: Four days workshop on MATLAB, Simulink and Low Cost Design Using Signal & Image Processing Toolbox”, December 2015.</p>
10	Prof. S.F. Bankar	<p>1. National Workshop: One day workshop on “Public Awareness to telecom Sector” conducted by Telecom Regulatory Authority of India (TRAI), Banglore Division-2016.</p> <p>2. National Workshop: One Day Workshop on MATLAB & SIMULINK for Engineering Education held by Mathworks India Pvt. Ltd., Aurangabad- Nov 2014.</p> <p>3. National Conference: Two Day Workshop on Free & Open Source Software, Aurangabad, Dec, 2013.</p>
11	Prof. N.T. Kolambikar	<p>1. International Conference: One day workshop on CISCO- Connect Now Event – Connect to Grow organized by CISCO, Bengaluru, India – April 2014.</p> <p>2. National Workshop: One Day Workshop on MATLAB & SIMULINK for Engineering Education held by Mathworks India Pvt. Ltd., Aurangabad- Nov 2014.</p>
12	Prof. A. A. Shirsath	<p>1. National Workshop: One day workshop on “Public Awareness to telecom Sector” conducted by Telecom Regulatory Authority of India (TRAI), Banglore Division-2016.</p> <p>2. National Workshop: One day Satellite Telecommunication training Program at Institute of Satellite Telecommunication Pvt. Ltd, Pune-2016.</p> <p>3. National Conference: IETE Certified One week FDP on “Soft Computing ANN & Fuzzy Application in Engineering at DIEMS, Aurangabad, Dec-2015.</p> <p>4. International Conference: Multi Country Currency Recognition Using PCA. (ICACC-2014) IEEE,Kochi, Kerala Section.</p> <p>5. International Conference: Paper entitled “Iris based attendance system” published in (IJARCET), ISSN: 2278 –1323, pp3329-3332, August, 2015.</p> <p>6. International Conference: One day workshop on CISCO- Connect Now Event – Connect to Grow organized by CISCO, Bengaluru, India – April 2014.</p> <p>7. National Workshop: One Day Workshop on MATLAB & SIMULINK for Engineering Education Organized by Mathworks India Pvt. Ltd., Aurangabad- Nov 2014.</p>



13	Prof. R. M. Jadhav	<ol style="list-style-type: none">1. National Workshop: One day workshop on “Public Awareness to telecom Sector” conducted by Telecom Regulatory Authority of India (TRAI), Bangalore Division-2016.2. National Conference: Workshop on PCB/Product Designing. PESCOE, Aurangabad (Sept-2014).3. National Workshop: One Day Workshop on MATLAB & SIMULINK for Engineering Education held by Mathworks India Pvt. Ltd., Aurangabad- Nov 2014.4. National Conference: ISTE Sponsored (New Delhi) One week STTP on Robotics & Automation –June 15.5. National Level Workshop: Four days workshop on MATLAB, Simulink and Low Cost Design Using Signal & Image Processing Toolbox”, December 2015.
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28. Student projects:

Percentage of students who have taken up in-house projects including inter-departmental projects: 16 %

Percentage of students doing projects in collaboration with other universities / industry / institute: 84 %

29. Awards / recognitions received at the national and international level by:

* Faculty: Dr. V.K. Kadam was awarded with Ph.D. degree in the year 2013-14.

* Students:

- Final year project work is a very important part in the curriculum which not only increases the technical knowledge of the students, but also improve their confidence level. A very much important innovation was made by one of the project group of 2013-14. Mr. Sagar Dalvi, Mr. Nitin Teli, Mr. Abhipray Limaye, Mr. Saurabh Bhojar and Ms. Tejashree Nirmal have designed an Electric Wheelchair with many useful features for aged persons. This project work won the prestigious National Level Gold Medal Award of ISTE Project Competition. Mr. Sagar Dalvi has applied for getting the patent of this innovative development and received a notification of acceptance of nine registered issues of this idea.
- Second important achievement in this regard is the First Prize award to one of our group of three students in “Awishkar” Project Competition being organized at state level under the university scheme. The project group members Mr. Prashant Talekar, Mr. Shaikh Mohsin and Mr. Pravin Pradhan. This project “Gloves as Controller” is selected for the final round scheduled during 21-01-2015 to 26-01-2015 at Nagpur.



30. Seminars / Conferences / Workshops organized:

Year: 2015-16

Sr.no	Date	Topic	Abstract(500 words)
1.	8.8.15-23.8.15	VLSI and Embedded Programming	This two week exhaustive training program on VLSI and Embedded Programming was arranged with IGTR. The student participants were trained on these two programming aspects as per the industry requirements. During the campus placements in near future, the performances of these participants will definitely give them a big success.
2.	21.3.16-23.3.16	PCB Design Workshop.	One of the aspects for an Electronics Engineer is to get trained with PCB designing. This knowledge is to be embedded into the students at the entry level, and hence this workshop is arranged for SE-EC students.
3	28.2.16	One day workshop On Satellite Communication	Knowledge about "Communication" is very much important and specifically about the Space Communication. This was the aim behind this.

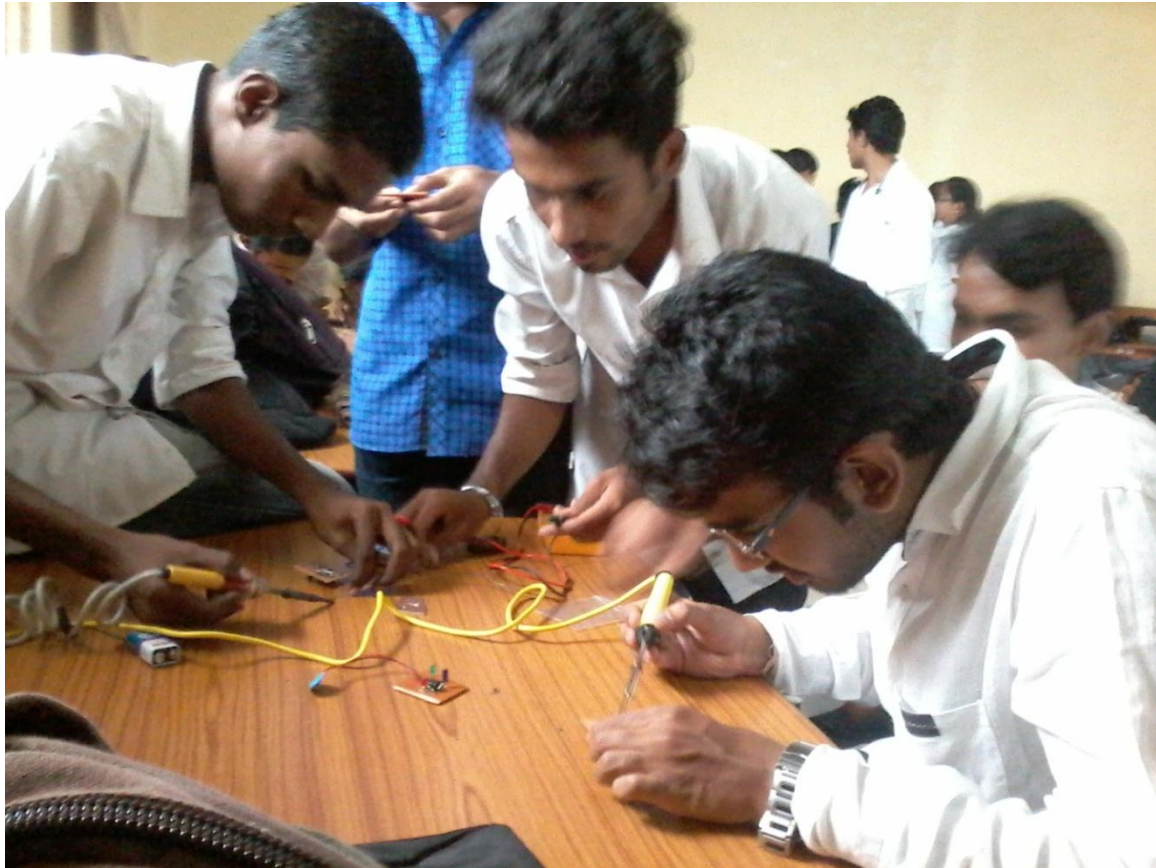
Year: 2014-15

Sr.no	Date	Topic	Abstract(500 words)
1.	27.7.15-1.8.15	One week STTP on PLC programming	The necessary issue for the budding engineers is the interaction with industries. In collaboration with Indo-German Tool Room, Aurangabad, a one week STTP on PLC programming was successfully arranged for the students of Electronics and Electrical departments. Hands-on training and thorough knowledge was received by the participants.
2.	10.2.15-11.2.15	Workshop on "Sound Engineering".	In one of the subject, "Communication Engineering", a curriculum gap about application oriented knowledge about acoustics was observed. To overcome this gap, this workshop with CSE dept was arranged.
3.	12.9.14-13.9.14	PCB designing with hands on training	44 students of SE-EC have attended this workshop. The trainer was Mr. Mahesh Sude, Technocop Technologies Pvt. Ltd., Noida
4.	August 2014	Web-based Training	50 students of BE-Electronics have received this training in the company premises of M/s. Endress+Houser Ltd, Waluj.



Year: 2013-14

Sr.no	Date	Topic	Abstract(500 words)
1.	11.10.13- 14.10.13	Workshop on PCB Designing	The beneficiaries were the students of Second and Third year and the trainers were the students of Final year of Electronics department. This was a successful event organized by the senior students for their junior learners.



31. Code of ethics for research followed by the departments:

There are several reasons why it is important to follow the ethical norms in research. First, norms promote the aims of research, such as knowledge, truth, and avoidance of error. For example, prohibitions against fabricating, falsifying, or misrepresenting research data promote the truth and minimize error.

Second, since research often involves a great deal of cooperation and coordination among many different people in different disciplines and institutions, ethical standards promote the values that are essential to collaborative work, such as trust, accountability, mutual respect, and fairness. For example, many ethical norms in research, such as guidelines for authorship, copyright and patenting policies, data sharing policies, and confidentiality rules in peer review, are designed to protect intellectual property interests while encouraging collaboration. Most researchers want to receive credit for their contributions and do not want to have their ideas stolen or disclosed prematurely.

Third, ethical norms in research also help to build public support for research. People are more likely to fund a research project if they can trust the quality and integrity of research.

Finally, many of the norms of research promote a variety of other important moral and social values, such as social responsibility, human rights, animal welfare, compliance with the law, and public health and safety. Ethical lapses in research can significantly harm human and animal subjects, students, and the public. For example, a researcher who fabricates data in a clinical trial may harm or even kill patients.



32. Student profile program-wise:

ame of the Program	pplications received	Selected		Pass Percentage	
lectronics and Telecommunication	26	03		81.74 %	

33. Diversity of Students:

Name of the program	% of students from the same university	% of students from other universities within the state	% of students From universities outside the state	% of studen ts from other countr ies
Electronics and Telecommunicati on	85 %	13 %	2 %	Nil

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise:

16 students have cleared GATE examination.

2 student cleared MPSC exam 2015 and selected as Nayab-Tehsildar.

1 student cleared UPSC exam 2015 and selected as Range forest officer.

35. Student progression:

Student progression	Percentage against enrolled
UG to PG	8 %
PG to M.Phil, DM, / M. Ch. / DNB	NA
PG to Ph. D.	NA
Employed:	
* Campus selection	48 %
* Other than campus recruitment	45 %
Entrepreneurs	03

**36. Diversity of staff:**

Percentage of faculty who are graduates	
Of the same university	10
From other universities within the State	3
From universities from other States	Nil
From universities outside the country	Nil

37. Number of faculty who were awarded Ph. D. during the assessment period: 01

Dr. V.K. Kadam was awarded with Ph. D.

38. Present details of departmental infrastructural facilities:

Room description	Usage	Shared/ exclusive	Capacity	Rooms equipped with PC, internet, book rack, meeting space, etc.
Library	Staff and students	Exclusive	30	PCs, internet, book rack, meeting space.
No. of classrooms: 02	CR-10: SE & TE CR-12: BE & TE	Shared Shared	110 110	CR-10: No CR-12:PC, internet
No. of laboratories: 09	Practical, Assignments, Short tests, Tutorials, Notes taking	Exclusive	30 each	All laboratories with internet connectivity, Two with PCs.
No. of smart class rooms: 01 (CR-12)	Seminar, Speeches, Departmental TP activities	Shared	110	PC, internet
No. of research laboratories: 01	Staff research, Student projects	Shared	30 each	PCs, internet, book rack, meeting space.
No. of faculty rooms: 06	Faculty	Exclusive	2 each	PCs, internet, book rack, meeting space.

39. List of doctoral, post-doctoral students and research associates: Nil



40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programs?: NA

42. Does the department obtain feedback from

a) faculty on curriculum as well as teaching-learning-evaluation? Yes.

This feedback is communicated and implemented during syllabus revision meetings.

b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes

This feedback is utilized for self analysis of staff and necessary improvements in the teaching methods.

43. List the distinguished alumni of the department

1. Dr. Rajneesh Talwar: Principal, Engg College, Chandigarh Group of Colleges.
2. Mr. Priyaranjan Wakankar: Manager, Mahindra and Mahindra Ltd., Nagpur
3. Mr. Sanjay Mittal: Scientist at ISRO
4. Mr. Sagar Dalvi: Won prizes in robotics, Best Asia Design Award, Applied for patent
5. Ms. Emily Punnoose: Good positions at Infosys and Syntel
6. Mr. Michal Asif: Global Operation Lead at Capgemini
7. Ms. Ashwathy Abraham: Work experience in L & T Infotech and Accenture
8. Mrs. Suvarna Dhakne Ghuge: Principal, Ambarwadikar Institute of Engg & Technology.

44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts:

Seminar and Guest Lectures

Year: 2015-16

Sr.no	Date	Topic	Name of Speakers with designation and organization
1.	06-04-2016	OFC Applications in Industries.	Mr. Girish Adavatkar, Sterlite Industries, Waluj, Aurangabad
2.	12-03-2016	Guest lecture on Opportunities in Telecom Sector and necessary knowledge to be updated.	Mr. Sagar Dalvi Telecom Engineer, Nokia, Pune
3.	05-03-2016	Guest lecture on Optical fibre communication	Mr. Vishal Kulkarni Sr. Engineer Tata Communications Ltd.
4.	21-08-2015	Guest lecture on "Stress Management"	Mr. Rajesh Chavan Director Jeevan Sanjivani Manav Sanshodhan Vikas Sanstha, Satara.
5.	18-02-2016	Seminar on Telecom Tariff (Customer awareness program)	Mr. Prakash Reddy TRAI, Bangalore.



Year: 2014-15

Sr.no	Date	Topic	Name of Speakers with designation and organization
1.	18-02-15	Seminar on Design and development of Robots	Our final year students: Mr. Mohsin Khan
2.	25-09-2014	“3 biggest mistakes students do that destroys their future prospects”	Ms. Rashmi Gajjar US based Trainer and Coach

Year: 2013-14

Sr.no	Date	Topic	Name of Speakers with designation and organization
1.	28-03-2014.	One day session on Presentation Skills for the Third year students. Improvement in the soft skills such as Self confidence, Stage courage and Eye contact were aimed.	Mr. A.T. Jadhav Lecturer, P.E.S. Engg.

Training Camp organised:

Year: 2015-16

Sr.no	Date	Topic	Company Name	Trainers name	Department	Audience	No. Of participants	Venue
1.	Part-I	Campus Recruitment	Tech Rel, Pune		Institute	Students	250	TP Cell
2.	Part-II	Spoken Tutorial program	IIT, Bombay		Electronics	Students	34	Knowledge Centre



Year: 2014-15

Sr. no	Date	Topic	Company Name	Trainers name	Department	Audience	No. Of participants	Venue
1.	Part-I & II	SAP Training		Mr. Raj Cheri Konda	Electronics	Students	16	Knowledge Centre
2.	Part-II	Web based Training	Endress+Houser Pvt Ltd		Electronics	Students	39 (TE-EC)	Company premises, Waluj

Year: 2013-14

Sr.no	Date	Topic	Company Name	Trainers name	Department	Audience	No. Of participants	Venue
1.	18-02-14	Robo Design		Shaikh Mohsin	Electronics	Students	56	Electronics Department

45. List the teaching methods adopted by the faculty:

Teaching Learning media:

1. Board activity – chalk and talk
2. Prototype models
3. Short seminar
4. Rapid fire
5. Quizzing
6. Group discussion
7. Text books
8. Charts and drawings
9. Demonstration
10. Audio visual aids
11. Role play
12. Gaming
13. Puzzle



POGIL: POGIL is an acronym for Process Oriented Guided Inquiry Learning. POGIL activities involve giving students a model to work with, and then asking a series of leading and challenging questions. This allows them to construct their own knowledge of a concept.

The following are the various other content delivery methods used to deliver the courses:

- 1: Lecture interspersed with discussions
- 2: Lecture with a quiz
- 3: Tutorial
- 4: Demonstration (Such as model, laboratory, field visit)
- 5: Group Discussion
- 6: Group Assignment/ Project
- 7: Presentations
- 8: Asynchronous Discussion

Modes of delivery of courses helping in the attainment of targeted outcomes:

The teaching learning media includes the activities like Chalk and Talk, Prototype models, Short seminars, Rapid fire, Quizzing, Group discussion, Text books, Charts and Drawings, Demonstration, Audio visual aids, Role play, Gaming, Puzzle, etc. All these modes help in the attainment of targeted outcomes.

46. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?

- At the entry level itself, (FE or Direct SE), the students are made aware of the syllabus prescribed by the university. A detail explanation about the subject importance, marking scheme, rules about grace marks, necessity to concentrate on the class tests, regularity in attendance, preparation of a suitable study time-table, collection of books and development of personal library, improvement in English communication etc. is given.
- The knowledge, its implementation and results are obtained by the subjects under curriculum. Improvement in the performance of students should be seen in the areas like class tests, examination performance, practical knowledge, mini projects designed by the students etc.
- Additionally the information about current technologies in the electronics and telecommunication field is explained timely. The students are also guided to be in tune with the advancements in these technologies. The facility of digital library is found useful in this targeted approach.
- Efforts are taken by all the staff members to encourage the students to participate in technical events, project competitions, paper presentations, sports, gathering events, social activities, aptitude tests, group discussions. A keen observation on the students is made to find their qualities as well as weaknesses.



- Overall development of students in the sectors like VLSI design and programming, Signal and Image processing, Embedded systems and Communications (along with the final year project development), successful achievement in campus interviews and higher studies, regular touch with the department and the institute after graduation.

Simple techniques of curriculum analysis implemented to achieve the outcomes:

Sr. No.	Analysis technique	Outcome
1	Monitoring of each student in the areas like attendance, record keeping, studies, etc.	Performance up-gradation
2	Performance in each subject (Theory, class tests, practical-oral and term work)	Improvement in results, thereby attainment of Pos
3	Tuning with technological advancements	Confidence and skills are increased
4	Participation in various technical and extracurricular activities	Prizes, awards and patents
5	Career track selection	Good placements

47. Highlight the participation of students and faculty in extension activities:

Learning outside the classroom is just as important as learning within the classroom situation, & it is possible to greatly enhance our students' academic performance with additional extension activities. As students progress upwards through the college, these will be increasingly linked to their specific areas of expertise or developmental needs. The extension activities include field visits, industrial visits, academic clubs, various competitions etc.

List of Industrial Visit

Sr. No.	Name of the Industry	Place	Class	Date
1	Television Relay Station (HPT)	Mhaismal, Aurangabad	TE-EC	09/10/13
2	Sterlite Technologies	Waluj, Aurangabad	BE-EC	02/04/15
3	Endress + Houser	Waluj, Aurangabad	BE-EC	Part-I
4	Institute of Satellite Communication	Kharadi, Pune	BE-EC	28/02/16
5	Aurangabad Electricals	Chakan, Pune	BE-EC	01/03/16
6	Mobile Base Station	Aurangabad	BE-EC	05/03/16

Regularly conducting National Level Multi event Symposiums helped the students to become familiar with the planning and execution processes. Many students came forward with inbuilt qualities like leadership, computer expertise, decoration skills etc. With strong support of the Principal and the Management, these events were successful. In the year 2010, the department of electronics has arranged such event "Reflexes-2010".



48. Give details of “beyond syllabus scholarly activities” of the department:

- * The department has regularly conducted training sessions about competitive examinations.
- * PCB Design workshop is conducted every year for second year students.
- * MOU is made with various industries for knowledge transfer.
- * Novel ideas of students about project developments are always supported.
- * Through proper guidance the students were promoted for various activities.

Benefits to the students related to these activities:

- More students are doing their post graduations
- Technical skills developed in the students are increased thereby more number of students are getting jobs off campus
- Industrial sponsorship for BE projects is increased
- Two of our students have applied for patents
- Participation of the students in technical symposiums, project competitions, activities in the department and the institute, is significantly increased.

**49. State whether the program / department is accredited / graded by other agencies?
:**

Not yet.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The Educational Objectives of the department are:

- 1) Graduates will be able to succeed in positions in engineering practice or research, and in other fields they choose to pursue.
- 2) Graduates will become a responsible member of society.
- 3) Graduates will be leaders, both in their chosen profession & in other activities.
- 4) Graduates will address the complexities of real life engineering problems and be able to formulate solutions that are technically sound, economically feasible & sustainable.

Adhering to these objectives, the department has arranged various programs, workshops and lecture talks for the students which helped in generating new knowledge to them.

Strategies and approach in achievement of the Educational Objectives:



The broad curricular components or academic factors that contribute in achievement of the Educational Objectives are:

- The curriculum is used to give basic theoretical knowledge in all aspects and hands-on-experience during practical sessions to learn every subject in detail. Apart from the subjects in curriculum, the necessary up gradations as per the need of time are embedded.
- Many students come with innovative ideas. A survey of their interest, the idea, its possibility of outcome is made and a proper track is generated. The student (or group) is continuously directed and motivated to achieve this goal. The results were fabulous.
- The subjects like EDC-I, EDC-II, EHWS, ESDL are beneficial to develop the circuit ideas and to build application oriented products. One of our student Mr. Sagar Dalvi has designed and developed a robust Robot which has won many prizes along with the prestigious Best Asia Design Award. Such students are motivated and financially supported by our institute.
- After going through the curriculum subjects like Digital communication, Signal processing and Image processing, our students have utilized their developed skills and designed the project “Finger Print Recognition System” (Door opening operation in the Knowledge Center and in our college office). Considering the success of this theme, the biometric machines are planned to be installed in all the class rooms for attendance of the students.
- Promoting the students to appear for all the types of competitive examinations is being taken as one of the important work-task. This includes the UPSC-MPSC examinations and the entrance examinations for seeking admissions to the MBA courses. One of our student Mr. Praveen Jamdhade of 2011 batch has successfully cleared the MPSC examination and selected to work on the post “Naib Tahsildar”, his training will start from 05-05-2015.
- Another recent example is of Mr. Tarang Ovhal, who secured 98.29 percentile in the MBA CMAT examinations March-2015. He is one of the three students in Aurangabad who scored more than 98 percentile marks.
- Knowledge of basic network theory and electrical engineering promoted the ideas of students in developments. Ms. Amruta Bhakkad has made an optimum design of load distribution of Solar based Lantern charging substation and she is now working with that group, an NGO, making installments of such lantern stations in village areas where no electricity supply is available. This noble cause has given a high amount of satisfaction to the student and to the department as well.
- Final year project work is a very important part in the curriculum which not only increases the technical knowledge of the students, but also improve their confidence level. A very much important innovation was made by one of the project group of 2013-14. Mr. Sagar Dalvi, Mr. Nitin Teli, Mr. Abhipray Limaye, Mr. Saurabh Bhoyar and Ms. Tejashree Nirmal have designed an Electric Wheelchair with many useful features for aged persons. This project



work won the prestigious National Level Gold Medal Award of ISTE Project Competition. Mr. Sagar Dalvi has applied for getting the patent of this innovative development and received a notification of acceptance of nine registered issues of this idea.

- Second important achievement in this regard is the First Prize award to one of our group of three students in “Awishkar” Project Competition being organized at state level under the university scheme. The project group members Mr. Prashant Talekar, Mr. Shaikh Mohsin and Mr. Pravin Pradhan. This project “Gloves as Controller” is selected for the final round scheduled during 21-01-2015 to 26-01-2015 at Nagpur.
- Considering the importance of Linux system, the students are promoted to undergo a training of Red Hat, and two of our students have successfully completed and awarded as Red Hat Certified Engineer. These are Mr. Naveed Ahmed and Mr. Amol Mandle.

PEO	Courses	Educational activities
Research abilities	EDC-I, EDC-II, EHWS, DSP, ADSP, DIP	Multievent symposiums, Project competitions
Social aspects	CS-I, CS-II, Project-I	Visits to certain places
Innovative ideas	EDC-I, EDC-II, NA, Project, Seminar	Paper presentations, Project competitions
Quality education	All	Audio visual aids, Alumni interactions

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

A SWOC analysis is a strategic planning tool that can be used during the curriculum assessment and review process to make informed decisions based upon collective input from multiple stakeholders. Within the context of curriculum development, a SWOC analysis can be used as a powerful framework to discuss and clearly identify the strengths, weaknesses, opportunities and challenges related to an existing degree program.

Our department also has made the use of this planning tool to make the true analysis, which resulted in many achievements, and given a clear direction to achieve the remaining goals.

Strengths of the department:

1. The major strength of the department is its staff. Our department has one Doctorate and nine post graduates. Three of these have 20 years of experience. Many research papers are published by these staff members.

Few of our staff members have handled the portfolios such that the facilities are utilized by other departments also:

1. Dr. V.K. Kadam, acting as Head of Knowledge Center have made lot many developments listed below, beneficial for all the departments:



All the departments share the central facilities in Knowledge Center as listed below:

- 20 MBPS High Speed Broadband Internet Access with Cisco Wi-Fi Network.
- MATLAB 7.2, Simulink, Ultiboard PCB Design, ICAP-4 and Multisim simulations, Code Composer Studio, Xilinx VLSI, C, C++, Visual Basics (All Licensed Versions).
- Cisco/Linksys Gigabit Managed and Unmanaged Fiber and Ethernet Switches for High Speed Network Lab.
- All the departments are connected with Fiber Optic Backbone to share these resources.
- The CCTV cameras in the class rooms and corridors are installed and connections are made available. Also the work in installations of cameras in all the department laboratories and HOD cabins is carried out. In all the three hostels (one girls hostel and two boys hostels) the cameras are installed. The monitoring of all these cameras can be done at individual departments and centrally at Principal's cabin.
- Wi-Fi connectivity to the students staying in the three hostels is provided.
- College website is designed.

In addition, the installation of Biometric Attendance System at our office for all the staff of our institute, and such systems for all the students of all the classes in the classrooms is successfully carried out under the guidance of Dr. V.K. Kadam. All these systems are working properly and lot many flexibilities are made available through this arrangement.

The designing of our college website, work development for access of digital library, purchase and installation of Cisco devices for intercom for whole of the institute are the important areas for up-gradations of the departments and the institute in turn. All these key works are headed by Dr. V.K. Kadam very efficiently.

One of the most important part of our mission is the social aspect. Every year on 14th April, the Jayanti Celebrations of Bharat Ratna Dr. Babasaheb Ambedkar are carried out in our institute. Lot many events like Blood donation, 18 hour study program, guest lectures by learned personalities, etc. are conducted. Guidance for all to move on the path laid by Dr. Babasaheb Ambedkar is given through these programs. For four times, Dr. V.K. Kadam was the chair-person of this program and conducted all the events with fruitful results.

Three Post Graduate study courses are started in our institute. Dr. V.K. Kadam is appointed as Dean-PG Studies.

This year the work of ARC is allotted to our department. Dr. V.K. Kadam was the in-charge of this key work. Mrs. J.P. Zine, Mrs. A.P. Kharat, Mrs. V.R. Kshirsagar, Mr. A. A. Shirsath were the members of this committee.



One more activity was assigned (office order dated 10-11-2014) regarding the online exam forms to be filled in by the first year students. Under the guidance of Dr. V.K. Kadam, the work is done from 11-11-2014 to 15-11-2014, five days for five divisions.

2. Mr. S.S. Khedgikar is the Head of the department of Electronics Engineering. In addition to performing his duties for the department he is handling other works for the institution, which are needful for other departments also:
 - He is acting as Dean-Students Welfare, wherein the issues of overall developments of all the students of the institute are taken care. The participation of students in social activities is one of the key issues taken care of.
 - Mr. Khedgikar is also a member of Admission committee. Proper counseling of the students and parents is carried out, all their queries are solved and as per their marks, necessary guidance is given to seek admission to the course and institute of their interest.
 - The CAS (Common Assessment- papers of all the departments of all the institutes) work for 2013-2014 Part-I is carried out successfully at our institute. For this work one of the posts was handled by Mr. S.S. Khedgikar, as a Joint Director.
 - The construction activities of the institute are being handled by our Civil Engineering department. Mr. S.S. Khedgikar is one of the members of Construction Committee. Regular meetings of this committee are carried out.
3. Mr. V.V. Kulkarni is handling the post as Dean- Industry Institute Interaction, and completed a work of signing of an MOU with two organizations. Earlier, Mr. Kulkarni was Training and Placement Officer of the institute for three years. During his tenure, he has arranged many training programs and campus sessions for final year students of all the departments. He has maintained an excellent track record of all the students.
4. One of the most important portfolios other than teaching is the Hostel Rector. Making available the facilities and thereby a satisfactory student life, is the motto of this post. Mrs. P.K. Ghuge is acting as Rector for Girls hostel since four years. She has formulated the rules and regulations to inculcate good habits in the students. Necessary outcomes can clearly be seen with such living pattern.
5. One of the most important parameter of college age is the sports activity. Mr. S.F. Bankar is doing this portfolio work very systematically for the last two years.



6. One more activity was assigned regarding the online exam May/June-2015 to Mr. N.T. Kolambikar

Sr. No.	Name of the staff	Activity	Work details
1	Dr. V.K. Kadam	Internet access	20 MBPS Broadband with Wi-Fi network
		Software purchases	All licensed copies of advanced versions
		CCTV cameras	Installation of cameras at class rooms, departments and corridors
		College website	Design and overall control work
		Biometric attendance	Systems installed in all class rooms
		Social activity	Dr. Babasaheb Ambedkar Jayanti Celebration Arrangement of 10 days Vipashyana Shibir
		Industry interaction & consultancy	MOU with M/s. EdGate Technologies, Bangalore. Six Analog Trainer Kits are received through this to set up a Texas Instruments Lab at our institute
2	S.S. Khedgikar	College admissions	Member of this committee for 8 years
		Students welfare	Acting as a dean of this portfolio
		College construction	Committee member
3	V.V. Kulkarni	Industry interaction	MOU with two organizations is done
		sTraining & Placement	Worked for three years as an in charge
		e-Yantra Lab set up	Working as member of e-Yantra lab and as a mentor of ECT department.
4	Mrs. P.K. Ghuge	Girls hostel	Rector for the last four years
5	S.F. Bankar	Sports activities	In charge of this very important portfolio

2. Initiatives to improve the quality of final year projects
(Quality of the project is measured in terms of factors including, but not limited to cost, type (application, product, research, review etc.), environment, safety, ethics and standards. Processes related to project identification, allotment, continuous monitoring,



evaluation including demonstration of working prototypes, and to enhance the relevance of projects. Mention the initiatives, implementation details and impact analysis)

The students are made aware of the importance of following subject themes which are most useful in design and development of quality project.

1. Mathematics and Basic sciences: The Courses under this components covers topics such as ordinary and partial differential Equations, Differential , Integral and vector Calculus, Fourier series and transforms, Numerical methods, Relations and graphs, Distributions, Inferences concerning Means and Variances and Queuing Theory for solving engineering problems.

2. Basic Engineering Courses: The study of topics like Moment of Inertia of Plane Figures & Rigid Bodies, Kinematics, Basic Manufacturing Methods, Electrochemistry and Electrochemical energy systems, Civil engineering Materials, Power Transmission and Plants, Forces and Friction, Electricity and semiconductors, Magnetic circuits, Transformers builds the student with the ability to analyze real life problems, design and provide appropriate solutions that are socially acceptable which enhances excellence in professional career.

3. Humanities & Social Sciences (HSS): The focus will be on the courses related to communications, Ethics, and Environment Science. Main topics are Solid waste management, Energy resources, Theory of Games, Project Management. The awareness of these courses, make the student to function and communicate effectively in teams for computing the problem with global impact maintaining professionalism and ethical attitude.

4. Professional Core: As per the program specific criteria, the core courses cover the all topics envisaged by professional bodies.

5. Electives: The advanced core courses that build on the fundamental course work to provide depth are included in this component.

Progress reports of project development:

1. An excellent system has been formulated by Dr. V.K. Kadam, for the progress records of project developments by the groups of final year students. This systematic approach of attainment of completion of project with each and every steps taken by the student group, timely assessed by the concerned guide, evaluated by the project in-charge Dr. V.K. Kadam and Head of the department Mr. S.S. Khedgikar, proved to be a splendid methodology.
2. Such systematic method has created a bond amongst the student group members, the guide and other staff members. Additionally and more pronouncedly it helped in timely completion of all the projects with quality work.
3. From the last few years this system has been started along with a typical and well guided method of preparation of project reports. All the guidelines are made available on our college website by Dr. V.K. Kadam. Therefore all the project reports are of high quality technical work with all the measurements carried out to derive the performance analysis of the system.



Through a predefined process developed and implemented by our senior staff member Dr. V.K. Kadam, the selection of topic for project is made by a group of 2 or 3 students. A progressive analysis thereafter is carried out twice a month about the developments made by the students. Following additional parameters proved to be beneficial for successful project developments:

- PCB workshops were arranged at the department for the students of SE-Electronics. The facilitators were the senior students of our own department, who have organized these sessions very well. Mr. Nitin Teli, Mr. Abhipray Limaye, Ms. Madhumita Shinde, Mr. Sagar Dalvi, Ms. Nabila Anam, Mr. Saurabh Bhoyar, Mr. Nikhil Pimpale and Ms. Sujata Jadhav have conducted the workshops, with around 35 beneficiaries in both the events. The department have promoted these team members to give the training, solved the complexities in some issues and always supported them strongly.
- These workshops were arranged for the then SE students during 13-03-2012 to 20-03-2012, and 11-10-2013 to 14-10-2013.

As per the feedbacks, the learners stated good remarks about their satisfaction. It is worth to note that the learners as well as facilitators were our own students. This way an excellent cohesive bond was created within the department with a creation of assurance that any task given will definitely be achieved.

- A very important thing is noted here about Outcome Based Education. Four of the above mentioned team members Mr. Nitin Teli, Mr. Abhipray Limaye, Mr. Sagar Dalvi and Mr. Saurabh Bhoyar, with one more added thereafter, have designed a project in the final year which proved a very much excellent and useful work. The theme was “Electrical Powered Wheelchair” which was designed with many useful features. This work was applied for patenting. Two letters of acceptance of submissions are received so far about this.
- Further to note that, two members of this team Mr. Abhipray Limaye and Mr. Sagar Dalvi were immediately placed, the former in Baxter Pharma Industries Pvt. Ltd., Waluj, Aurangabad, and the later in Vodafone Group, Pune Region. This definitely is a result of Outcome Based Education. One of these student members Mr. Nitin Teli have taken admission to a short term course to undergo the necessary training of PLC’s, with a view to get mastery in automation. This was a result of his project “Automized Electric Wheelchair”.

Entrepreneurship initiatives, product designs and innovations during project developments:

- One of the students of our department Ms. Amruta Bhakkad has made an excellent design of a distribution station for lantern charging.
- A project group of our department has developed a biometric activation system at our college office and in the knowledge center.



- A group of five students, as their final year project has designed an electronically controlled wheelchair with many features, as a socially concentrated development.
 - Mr. Sagar Dalvi, one of the students of this group has applied for patent of this excellent work development and received the acceptance of submission for 9 points covered under patenting.
 - This project is forwarded to ISTE for nominations for Maharashtra State Engineering Design Award 2014.
 - A letter was received from ISTE head office, New Delhi, about this project got short listed for the presentation. This will be done at ISTE Students National Convention to be held at Rajkot, Gujarat, during 10th and 11th October 2014.
 - Thorough preparations were made for this event. The students Mr. Sagar Dalvi and Mr. Nitin Teli participated in this event, made an excellent presentation and bagged First Prize. The award received was a Gold Medal Trophy of First Prize as a National Award, Certificates and Cash Prizes to both.
 - On the similar track, a group of three students of 2014-2015, have designed a scheme of “Gloves as Controller” for their final year project. Mr. Prashant Talekar, Mr. Shaikh Mohsin and Mr. Pravin Pradhan of this group have applied for the “Awishkar Project Competition” under the university scheme and bagged first prize. Their project is selected for state level presentation scheduled during 21-01-2015 to 26-01-2015, at Nagpur.
3. Prof. V.K. Kadam, a Cisco Certified Faculty, has fabricated the course module of CCNA (Cisco Certified Network Associate). The course duration is of 240 hours and the students will receive a certificate from Cisco after successful completion of course and online exam conducted by Cisco. The students will certainly get benefited through this Industry Interaction.
4. The interaction with industries is very much necessary for overall development of the students, the staff and the institute as a whole. Keeping this view in mind, one of our senior staff member, Dr. V.K. Kadam has taken an initiative and made discussions with M/s. EdGate Technologies Pvt. Limited, Bangalore, which is the University Program Partner of Texas Instruments, India. An MOU is prepared and sent to this organization on 14-10-2015, and on 02-11-2015, an acceptance of the same is received. In December 2015, 06 Analog Trainer Kits with instruction and experimentation manual is received.

Through this MOU, a “Texas Instruments Lab” has been set up, which include lab training facilities for students and staff. Faculty Development Programs, Workshops, National Events etc. will be executed by this development. This “Innovation Lab” will also be used for research activities.

5. Initiatives related to industry internship / summer training

(Mention the initiatives, implementation details and impact analysis etc.)



Sr. No.	Activity	Outcome
1	Industry interaction of staff members	Collection of data for in-plant training
2	Student visits to industries for learning the working structure	Selection of industry for the trainings
3	Well planned approach by Mr. V.V. Kulkarni	Satisfactory completion of training by large number of students
4	MOUs with industries: Fainger Leser Valves and SOM Autotech Pvt. Ltd.	Will be useful for in-plant training, project developments and sponsorships
5	MOU with industries: M/s. EdGate Technologies Pvt. Limited, Bangalore	Will be useful for hands-on training, project developments and consultancy
6	MOU with industries: M/s. IGTR, Aurangabad	For STTPs and Workshops; Also for project developments and placement improvements

Exposure to industry working is a must for the undergraduates. Keeping this necessity in top priority, we have made arrangements to have in-depth interaction of students with the industries nearby. Besides industrial visits, it is aimed to increase the number of students doing summer training programs at various industry set-ups.

Every year approximately 40 students of our department undergo in-plant training in summer vacations. The Training and Placement Officer Mr. V.V. Kulkarni was instrumental in bringing large group of undergraduates towards this summer training. He has taken initiatives to contact the industry people, make a plan for sending a group of four-five students in one industry, taking regular feedback from both these stake holders and kept the records for further plannings.

To improve this most important part in the summer vacations, two MOUs are made as Institute Industry Interaction Tie Up with M/s. Fainger Leser Valves (P.) Ltd. and with M/s. SOM Autotech Pvt. Ltd., MIDC-Paithan.

Impact analysis:

- The students undergone summer training have gained lot of knowledge about the industry procedures, the knowledge they must develop before completion of graduation, the behavioral and ethical issues, and the importance of time keeping.
- Many students have got benefited in selection and development of their project work in final year.
- Few of the students have appeared for off-campus recruitments and got the appointment letters.
- The interest of students in attending the lecture talks, going for industry visits, technical paper presentations, various competitions in and outside the



institute, taking initiatives in planning and working for an event in the department, is increased and this improved parameter will definitely help the students for their bright carrier.

Weaknesses of the department:

Knowing your weaknesses is critical to SWOC analysis. Anything that your approach struggles with or lacks is considered a weakness. If you know your weaknesses, you can avoid the threats that may occur in near future, by working very properly and systematically around those weaknesses.

1. One of the major weaknesses of the department is the number of permanent faculty. Less than 50% of our staff is having such approval from the university.
2. The second issue in the similar context is less number of Associate Professors (only two) in the department.
3. Ph. D. completion of only one staff.
4. No any lab assistant or lab technician is available with the department. All the work is to be handled by our teaching staff.
5. PG course is yet to be started.

Opportunities before the students and staff of the department:

Opportunities are emerging scenarios whereby you can grow and succeed with a new or existing situation. An opportunity might be a newly emerging technology or anything that can add to your success. If you know the opportunities facing you, you can focus your strategy and resources to achieve specific goals.

1. One such very important opportunity is the well spread initiatives of “Electronic Hub”. Many industries are being installed under the “Smart City” and “Make-In India” projects. Many of our students will therefore get the way for their future.
2. Many innovations are being taken up under the developments concerning with “Electronics”. The VLSI Designing, Embedded Programming, Signal and Image Processing, Robotics etc. are few examples of such opportunities.
3. The field of Telecommunications is never-ending, rather more researches are being made as this is very much necessary for the progress of mankind. Lot many opportunities will therefore be available under this aspect.
4. After graduation studies, our students can go for post graduation and thereafter for doctoral studies. Many facilities are available for them in the department and in the institute as a whole.
5. Competitive examinations for Indian Civil Services, Indian Engineering Services, MBA, TOEFL, etc. are also the opportunities before them.

Challenges and Threats:

The threats, or challenges, facing your progress when implementing a program are perhaps the most important factors of a SWOC analysis. You might have a solid plan catered to a clear and specific set of strengths, weaknesses and opportunities, but if you do not consider the challenges in your journey, your plan could be useless. Knowing the challenges you face helps you to make informed and take suitable strategic decisions accordingly.

1. One of the major challenges of the department is the low percentage of incoming students in CET examination. Lot many efforts are therefore



- required to be taken to take these students to the attainment level.
2. The second issue in the similar context is the number of students opting for “Electronics and Telecommunication” as a branch of graduation. For the last three years it is observed that less number of students are preferring this discipline.
 3. Number of companies approaching for campus placements is reduced drastically in the last few years.
 4. One more major challenging factor is a large number of engineering institutes around, and a large number of graduates coming out every year, thereby giving rise to saturation in job opportunities.
 5. To cope up with change in technologies. Lot many innovations are taking place at a very fast rate, but comparatively our curriculum is not getting modified.

52. Future plans of the department:

- To be the center of excellence promoting and providing a platform for preparation of globally competitive graduates with proficiency levels and research abilities.

As per the above mentioned motto, the preparations are going on. With the introduction of the “Innovation Lab” by Texas Instruments, through an MOU, this plan will be achieved definitely.

This year, six projects for final year students are being sponsored through this MOU. All necessary support at the device and design level will be given through Texas Instruments. These students have registered their details in “Texas Instruments Project Development Theme”, and started their work.

- To start the consultancy through the above laboratory as well as through the PCB design laboratory.

As per the MOU with M/s. EdGate Technologies, Bangalore, the consultancy work is to be started. All the necessary procedures are carried out for lab set-up, and next step will be to initiate the work of consultancy. Calibration of measuring instruments like CRO, Function Generator, etc. in this laboratory is carried out recently.

The industries in industrial sectors around the city need specific PCB’s regularly. As per the survey made, such work under consultancy could be started with the joint efforts of staff and the students. Through the regularly organized “PCB Design Workshops”, hands-on knowledge is being received by the second year students and excellent ideas were generated. This year, two of our students have designed and implemented a small but very useful project of “Light Intensity based Relay Controlled Lights” at our college premises.



3. Evaluative Report of the Mechanical Department

1. **Name of the Department** :- Mechanical Engineering
2. **Year of establishment** :- 1994
3. **Is the Department part of a college/Faculty of the university?** Part of college
4. **Names of programs offered (UG, PG, PharmD, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M./M.Ch., Super specialty fellowship, etc.)** :- UG
5. **Interdisciplinary programs and departments involved:-**
Departments Involved:- Applied science & Electrical Engg.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:-** No
7. **Details of programs discontinued, if any, with reasons** :- No
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System** :- semester
9. **Participation of the department in the courses offered by other departments:-** As per requirement.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor		01	
Associate Professor/Reader		03	
Assistant Professor		17	
Lecturer			
Tutor / Clinical Instructor			
Senior Resident			

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name of the Faculty member	Qualification and year of graduation	Designation	Experience No Of years	Area of specialization
Prof. V.V.Thete	B.E-1985, M.E.-2002	Dean Academics, Workshop superintendent	29	Design
Dr. M.M.Dhobe	B.E-1989 M.E.-1995 Ph.D. 2015	Head of Department and Associate Prof.	27	Design
Prof. R.G.Pungle	B.E.-1993, M.E.-2005	Associate Professor	23	Production
Prof. A.M.Bawiskar	B.E-1995, M.E-2006	Associate Professor	22	Design
Prof. Y.S.Sable	B.E-2008 M.E-2013	Assistant Professor	08	Manufacturing
Prof. P.L.Pandit	B.E-2004 M.E-2015	Assistant Professor	10	Production



Prof. M.N.Aves	B.E-2000 M.E-2016	Assistant Professor	15	Production
Prof. G.G.Naik	B.E-2010 M.E-2016	Assistant Professor	5	Heat Power
Prof. S.R.Hamand	B.E-2009	Assistant Professor	5	
Prof. S.S.Shinde	B.E-2010	Assistant Professor	5	
Prof. P.M.	B.E-2012	Assistant Professor	3	
Prof. V.P. Baisane	B.E-2013 M.E-2016	Assistant Professor	2	Manufacturing
Prof. Hashmi	B.E-2002 M.E-2013	Assistant Professor	10	Production
Prof. Ghan	B.E-2005 M.E-2014	Assistant Professor	10	Production
Prof. Tarequee	B.E-2008 M.E-2012	Assistant Professor	7	Production
Prof. Dhande	B.E-2011 M.E-2015	Assistant Professor	4	Manufacturing
Prof. Shirsat	B.E-2010 M.E-2016	Assistant Professor	208	Production
Prof. Shirole	B.E-2002 M.E-2014	Assistant Professor	1209	pRODUCTION
Prof. Dudhmal	B.E-2004 M.E-2010	Assistant Professor	12	CAD/CAM
Prof. Dixit	B.E-2010 M.E-2014	Assistant Professor	602	CAD/CAM
Prof. V.S.Pahade	B.E-2013	Assistant Professor	2.6	

12. List of senior Visiting Fellows, adjunct faculty, Emeritus professors

Sr. No	Name of Visiting fellows
01	Mr. Sandeep Nagori
02	Mr. Shirish Loya
03	Mr. Vivek
04	Mr. Abhijeet adavant
05	Mr. Amay Joshi

13. Percentage of classes taken by temporary faculty – program-wise information Mechanical Engg. :- Nil

14. Program-wise Student Teacher Ratio:- 23:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

Lab Assistant :- 1

Lab attendant :- 1

16. Research thrust areas as recognized by major funding agencies:-

Design, Manufacturing, Robotics Automation & CAD/ CAM

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :- Nil



- 18. Inter-institutional collaborative projects and associated grants received**
e) **National collaboration** b) **International collaboration** :- Nil
- 19. Departmental projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.** :- Nil
- 20. Research facility / centre with**
- state recognition:- Nil
 - national recognition Nil
 - international recognition Nil
- 21. Special research laboratories sponsored by / created by industry or corporate bodies**
- 1) CAD/CAM /CIM – SUPPORTED BY SIEMENS (I) LTD.
 - 2) ROBOTICS LAB:- SPONSERED & SUPPORTED BY e-Yantra , IIT MUMBAI.
- 22. Publications:**
- * Number of papers published in peer reviewed journals (national / international) :- 20
 - * Monographs
 - * Chapters in Books
 - * Books edited
 - * Books with ISBN with details of publishers:-
Author :- Prof. V.V. THETE,
Title:- Elements of Mechanical Engineering,
Publisher:- Renuka Publications, Aurangabad
- 23. Details of patents and income generated** :- Patents filed by students & staff:- 01
- 24. Areas of consultancy and income generated :-**
Technical consultancy in Design & Manufacturing
- 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad**
Dr. Dhobe M.M., Prof. V.V. Thete, Prof. R.G. Pungle
Mechanical Engg Labs of VNIT, Nagpur,
Metallurgy & Material science Lab. Of Govt. College of Engg, Pune
- 26. Faculty serving in**
- a) National committees
 - b) International committees
 - c) Editorial Boards of Departmental magazine:-
Dr. Dhobe M.M., Prof. P.L. Pandit, Prof. Vishaka Pahade
 - d) any other (specify):- University Syllabus revision committee:-
Prof. V.V. Thete, Dr. Dhobe M.M.
- 27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).**

Teaching faculty are continuously encouraged and motivated to pursue higher studies

and re-charge for better performance on the professional side.

The management promotes teacher development by motivating them to go for higher studies (Ph.D.) and providing study leave, sponsorship and flexibility in working hours.

Teachers are sponsored to attend and present papers in international conferences / seminars, training programmes, faculty development programmes conducted by the university and other agencies.



Department conducts Faculty Development Programs on a periodic basis.

Further, interactive programs and Workshops are organized to make teachers abreast of the latest developments in domain areas.

Research project grants are given by the management and necessary steps are taken to patent their innovative ideas and products.

Research activities and sponsored projects are encouraged and every year large number of proposals are prepared and sent to AICTE and other agencies for funding.

There are MoUs for academic development with renowned institutions and industries.

□ Student projects

- percentage of students who have taken up in-house projects including inter-departmental projects:- 5%
- percentage of students doing projects in collaboration with other universities / industry / institute :-
- Every year 2-3 project groups (3 students per group) perform their project in collaboration/ support of local industries.

28. Awards / recognitions received at the national and international level by

- Faculty:- Nil
- Doctoral / post doctoral fellows:- Nil
- Students :- Mr. developed Indias smallest e-Bike during his project and it was recognized by Limca Book of Records.

29. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

2015-16

Sr.no	Date	Topic	Name of Speakers with designation and organization	No. of Participant
1	02-08-2015	Life values & personality development	Expert Lecture by Mr. Rajesh Chavhan of Jeevan Sanjeevni	45 students
2	13-02-2016	The importance & methodology of research for staff members.	Lecture by Dr. G.L.Gogte Dean Research of MIT A'bad & Mr. S.R. Kulkarni, Sr. Manager, Crompton & Greaves, A'bad.	90 staff
3	08-02-2016	Computational Fluid Dynamics	Seminar conducted by Ms. Nisha Singhania from IGTR,A'bad.	55 students
4	17-02-2016	Opportunities for mechanical engineers in western countries	Guest Lecture by Mr. Sumeet Kochar	52 students
5	25-02-2016	Guest lecture on ANSYS	Guest lecture conducted by Mr. Piyush Patil	36 students



6	03-02-2016	Guest lecture on CAD	Auto CAD lecture by CAD/CAM guru	47 students
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2014-15

Sr.no	Date	Topic	Name of Speakers with designation and organization	No. of Participant
1	24-03-2015	Personality Development Seminar	Asst. prof. Nitamkumar Tayade	55 students
2	04-03-2015	Entrepreneurship Development Seminar.	Mr. Shirish Loya	75 students

2013-14

Sr.no	Date	Topic	Name of Speakers with designation and organization	No. of Participant
1	03-10-2014	Costing, Budget and Financial Management	PES alumni Mr. Abhijeet Jayant Advant (Manager, Corporate Greeves Cotton)	54 students
2	10-10-2014	Industry's requirement or expectation from the students	Chief Guest Mr. Apurva Khandelwal guided the student about the Industry requirement and what should be done in student life so as to achieve the Target.	52 students

30. Code of ethics for research followed by the departments :-

- It should be own contribution,
- The research should on recent topic, subject.
- It should be useful for the society / industry,
- It should involve college staff and students.

31. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female

32. Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries



Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries

33. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise.

Sr.No.	Type of Exam.	No. of students appeared
01	GATE	09
02	CIVIL SERVICES	0
03	OTHER	1

34. Student progression

Student progression	Percentage against enrolled
UG to PG	15
PG to M.Phil, DM / M Ch / DNB	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed	15
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurs	

35. Diversity of staff

Percentage of faculty who are graduates	
of the same university	95%
from other universities within the State	5%
from universities from other States	
from universities outside the country	

36. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period :- 01 Ph.D. & 05 ME

Sr. No	Name of Staff	Name of degree	Year
01	Prof. Dhobe M.M.	Ph.D.	2015-16
02	Prof. Y.S. SABLE	M.E.	2013-14
03	Prof. P.L. PANDIT	M.E.	2014-15
04	Prof . G.G.NAIK	M.E.	2015-16
04	Prof.R.L. SHIRSAT	M.E.	2015-16
05	Prof .V.P. BAISANE	M.E.	2016-17
06	Prof .M.N. AVES	M.E.	2016-17



37. Present details of departmental infrastructural facilities with regard to
- Library :- Total Books 175, Titles:- 99
 - Internet facilities for staff and students :-
 - Total number of class rooms:- 04
 - Class rooms with ICT facility and ‘smart’ class rooms:- Common for all dept.
 - Students’ laboratories :- 12
 - Research laboratories :- 01
38. List of doctoral, post-doctoral students and Research Associates
- From the host institution/university :- Nil
 - From other institutions/universities :- Nil
39. Number of post graduate students getting financial assistance from the university. :- Nil
40. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology.
While revising/developing the syllabus of any subject the contents were analyzed /studied and compared with the syllabus of other universities. Discussions were conducted with the industry people about their requirement and accordingly the new topics were added in the concerned subjects.
41. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? :- yes. The necessary corrections were suggested and implemented while revising the University syllabus.
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? :- yes. Accordingly the teaching methodology of staff has changed, increased the teaching efforts.
 - alumni and employers on the programs offered and how does the department utilize the feedback? :- yes. Latest & recent Topics , subjects were tried to introduce in the university syllabus as per need of the industry.
42. List the distinguished alumni of the department (maximum 10)

Sr. No.	Name of Alumni	Organization
01	Abhijeet Advant	Greaves cotton, Aurangabad
02	Apurva Khandelwal	Lacy sweatch Gear, Mumbai
03	Shobel sabu	Appolo Tyres, Banglore
04	Bhosale sankalp	Tata Motors, Pune
05	Priyarangan Wakankar	Mahindra &Mahindra, Nasik
06	Nikhil warale	Lear Automobile India Ltd.,Mumbai
07	Sumit Kochar	Optera Energy, West London
08	Makarand Tayade	Mahindra &Mahindra, Nasik
09	Manoj Bharadwaj	SPPL, Ahmedabad
10	Narendra chawan	Anchor Electricals, Daman



43. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.

Sr.no	Date	Topic	Name of Speakers with designation and organization
	03-10-2014	Costing, Budget and Financial Management	Alumni Mr. Abhijeet Jayant Advant (Manager, Corporate Greaves Cotton)
	10-10-2014	Industry's requirement or expectation form the students	PES alumni Mr. Apurva Khandelwal guided the student.
	24-03-2015	Personality Development Seminar	Asst. prof. Nitamkumar Tayade
	04-03-2015	Entrepreneurship Development Seminar.	Mr. Shirish Loya, Vision Consultant, Abad
	02-08-2015	Life values & personality development	Expert Lecture by Mr. Rajesh Chavhan of Jeevan Sanjeevni
	13-02-2016	The importance & methodology of research for staff members.	Dr. G.L.Gogte Dean Research of MIT A'bad & Mr. S.R. Kulkarni, Sr. Manager, Crompton & Greaves, A'bad.
	08-02-2016	Computational Fluid Dynamics	Seminar conducted by Ms. Nisha Singhania from IGTR,A'bad.
	17-02-2016	Opportunities for mechanical engineers in western countries	Guest Lecture by Mr. Sumeet Kochar
	25-02-2016	Guest lecture on ANSYS	Guest lecture conducted by Mr. Piyush Patil
	03-02-2016	Guest lecture on CAD	Auto CAD lecture by CAD/CAM guru

44. List the teaching methods adopted by the faculty for different programs including clinical teaching.

- 1) Chalk & Board method,
- 2) Power point presentation,
- 3) NPTEL Lectures,
- 4) Industrial visits.

45. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?

From the feedback received from the stake holders, parents, employers & higher educational institutes.

Class test were conducted regularly and its results were analyzed . During theory lectures and practical's questions were asked to confirm students depth of understanding and learning. Accordingly corrective measures were taken to improve the students understanding.



**46. Highlight the participation of students and faculty in extension activities.
Program Title: - “Touch” – A noble cause.**

Date:- 20th October 2015, Time:- 11:30 to 16:00

Department:- Mechanical Engineering

Participants:- All the MESA coordinators, students & Staff of MED.

Abstract:- A social cause initiated by the MESA.

Rs. 11,535/- were collected from the staff and students of college as donation.

MESA coordinators collected this amount in packed boxes from the whole college for a noble cause of donating something for the deprived children.

Two Orphanage homes were selected for the same namely, SAKAR and SHOBNA SHIKSHAN SANSTHA'S BALGRUH/ANATHASHRAM.

Necessary items were donated on this day. It was a TOUCH from everything to nothing.



Picture:- At SHOBNA SHIKSHAN SANSTHA'S BALGRUH/ANATHASHRAM.



At SAKAR.

47. Give details of “beyond syllabus scholarly activities” of the department.

Sr.no	Date	Topic	Name of Speakers with designation and organization
1	24-03-2015	Personality Development Seminar	Asst. prof. Nitamkumar Tayade
2	04-03-2015	Entrepreneurship Development Seminar.	Mr. Shirish Loya
3	02-08-2015	Life values & personality development	Expert Lecture by Mr. Rajesh Chavhan of Jeevan Sanjeevni
4	08-02-2016	Computational Fluid Dynamics	Seminar conducted by Ms. Nisha Singhania from IGTR,A'bad.
5	17-02-2016	Opportunities for mechanical engineers in western countries	Guest Lecture by Mr. Sumeet Kochar
6	25-02-2016	Guest lecture on ANSYS	Guest lecture conducted by Mr. Piyush Patil
7	03-02-2016	Guest lecture on CAD	Auto CAD lecture by CAD/CAM guru



Industrial Visit at Hydro electric power plant , Bhandardara.



CAD TRAINING PROGRAM



Expert Guest Lecture By :- Shirish Loya





48. State whether the program/ department is accredited/ graded by other agencies? If yes, give details. :- Accreditation is in process.

49. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The department is regularly conducting training programs in soft skill, CAD/CAM , INDUSTRIAL VISITS, Quiz Competitions, essay competitions, paper presentations guidance to students to generate new knowledge.

1	24-03-2015	Personality Development Seminar	Asst. prof. Nitamkumar Tayade
2	04-03-2015	Entrepreneurship Development Seminar.	Mr. Shirish Loya
3	08-02-2016	Computational Fluid Dynamics	Seminar conducted by Ms. Nisha Singhanian from IGTR,A'bad.
6	17-02-2016	Opportunities for mechanical engineers in western countries	Guest Lecture by Mr. Sumeet Kochar
4	25-02-2016	Guest lecture on ANSYS	Guest lecture conducted by Mr. Piyush Patil
5	03-02-2016	Guest lecture on CAD	Auto CAD lecture by CAD/CAM guru

Alumni Guest Lecture By Apurva Khandelwal CAD/CAM Training program



50. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Major strengths:-

- 1) Experienced, dedicated & highly qualified staff.
- 2) Updated & well established laboratories and Infrastructure
- 3) Good collaboration & interaction with the industries
- 4) Continuous encouragement to the faculty members in pursuing the research leading to P.G. & Ph.D.
- 5) Eco-friendly and amicable working atmosphere

**Weakness:-**

- 1) Majority of students are from rural areas,
- 2) Few number of patents
- 3) Less consultancy,
- 4) Lack of international collaborations.

Opportunities:-

- 1) In-plant training and & Project internship for students in industries and research laboratories,
- 2) Innovation in teaching learning process,
- 3) Development of CAD/CAM courses,
- 4) Increased participation of students in club activities, intercollegiate competitions,
- 5) Soft skill training, GATE coaching,

Challenges:-

- 1) Balancing Administrative, academic and research activities,
- 2) Promoting study abroad and student exchange programs,
- 3) Creating Entrepreneurs
- 4) Collaborations with foreign universities,
- 5) Students with diverse background

51. Future plans of the department.

- 1) To get the department accredited by NBA,
- 2) To start the PG course,
- 3) To start the University approved research centre,
- 4) To get the research grants from AICTE , DST & UGC



3. Evaluative Report of the Information Technology Department:

1 Name of Department : Information Technology

2 Year of Establishment: 2000

3 Is the department part of a college/Faculty of the university: Yes
The admission to first year have been closed from 2014-15,
The final year batch only is running in the current year 2016-17.
The department is presently merged in Computer Science Department.

4 Names of programs offered: UG (BE Information Technology)

5 Interdisciplinary programs & departments involved: Nil.

6 Courses in collaboration with other universities, industries, foreign institutions

Spoken Tutorial - IIT Bombay

SAP - WYVIL Systems Inc. Illinois,USA

NPTEL - All IITs

Soft Skill & Aptitude- Techrel Pvt. Ltd

7 Details of program discontinued, if any, with reasons: Due to fall in strength for Information Technology branch, First Year Engineering admissions for Information Technology branch were closed from the academic year 2014-2015. The IT department merged with Computer Science & Engineering Department.

8 Examination system: Semester

9 Participation of the department in the courses offered by the other departments:

10 Number of teaching posts sanctioned, filled & actual

	Sanctioned	Filled	Actual
Professor	1	-	-
Associate Professor/Reader	2	-	-
Assistant Professor	10	14	14
Lecturer	-	-	-
Tutor / Clinical Instructor	-	-	-
Senior Resident	-	-	-



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Faculty Details 2013-14

Sr No	Name	Qualification	Designation	Specialization	No of yrs of Experience
1	Prof.V.R.Mote	ME(CSE)	Assistant Professor	CSE	12
2	Prof.V.D.Jadhav	ME(CSE)	Assistant Professor	CSE	8
3	Prof.D.T.Rathod	ME(CSE)	Assistant Professor	CSE	9
4	Prof.S.P.Baviskar	ME(CSE)	Assistant Professor	CSE	7
5	Prof.N.P.Jadhav	BE(CSE)	Assistant Professor	CSE	3.10
6	Prof. P.D.Patni	BE(CSE)	Assistant Professor	CSE	2.8
7	Prof.S.A.Nase	BE(CSE)	Assistant Professor	CSE	4
8	Prof.B.N.Jha	BE(IT)	Assistant Professor	IT	1.8
9	Prof.K.T.Kanade	BE(CSE)	Assistant Professor	CSE	2.4
10	Prof.P.M.Gaund	BE(CSE)	Assistant Professor	CSE	0.9
11	Prof.S.D.Raverkar	BE(CSE)	Assistant Professor	CSE	2.8
12	Prof.K.R.Dabhade	BE(CSE)	Assistant Professor	CSE	0.11
13	Prof. S. M. Jaiswal	BE(IT)	Visiting	IT	--
14	Prof. P. P. Chothmal	BE(CSE)	Visiting	CSE	--
15	Prof. Dipali Gaikwad	BE(CSE)	Visiting	CSE	2.5



Faculty Details 2014-15

Sr No	Name	Qualification	Designation	Specialization	No of yrs of Experience
1	Prof.V.R.Mote	ME(CSE)	Assistant Professor	CSE	13
2	Prof.V.D.Jadhav	ME(CSE)	Assistant Professor	CSE	9
3	Prof.D.T.Rathod	ME(CSE)	Assistant Professor	CSE	10
4	Prof.N.P.Jadhav	BE(CSE)	Assistant Professor	CSE	4.10
5	Prof. P.D.Patni	BE(CSE)	Assistant Professor	CSE	3.8
6	Prof.G. K. Damkundwar	BE(CSE)	Assistant Professor	CSE	1
7	Prof.B.N.Jha	BE(IT)	Assistant Professor	IT	2.8
8	Prof.K.T.Kanade	BE(CSE)	Assistant Professor	CSE	3.4
9	Prof. P. M. Kadhav	BE(CSE)	Assistant Professor	CSE	2
10	Prof.S.D.Raverkar	BE(CSE)	Assistant Professor	CSE	3.8
11	Prof.K.R.Dabhade	BE(CSE)	Assistant Professor	CSE	1.11
12	Prof. P. P. Chothmal	BE(CSE)	Assistant Professor	CSE	0.6
13	Prof. Ruhi Nehari	BE(CSE)	Assistant Professor	CSE	3.0



Faculty Details 2015-16

Sr No	Name	Qualification	Designation	Specialization	No of yrs of Experience
1	Prof.V.R.Mote	ME(CSE)	Assistant Professor	CSE	14
2	Prof.V.D.Jadhav	ME(CSE)	Assistant Professor	CSE	10
3	Prof.D.T.Rathod	ME(CSE)	Assistant Professor	CSE	11
4	Prof.B.N.Jha	BE(IT)	Assistant Professor	IT	3.8
5	Prof. P. M. Kadhav	BE(CSE)	Assistant Professor	CSE	3
6	Prof.K.R.Dabhade	BE(CSE)	Assistant Professor	CSE	2.11
7	Prof. S N Madavi	Mtech	Asst. Professor	IT	0
8	Prof A V Turukmane	ME(CSE)	Asst. Professor	CSE	4

Faculty Details 2016-17

The staff members allotted to final year for the current year.

Sr No	Name	Qualification	Designation	Specialization	No of yrs of Experience
1	Prof.V.R.Mote	ME(CSE)	Assistant Professor	CSE	15
2	Prof.V.D.Jadhav	ME(CSE)	Assistant Professor	CSE	11
3	Prof.D.T.Rathod	ME(CSE)	Assistant Professor	CSE	12
4	Prof.B.N.Jha	ME(CSE)	Assistant Professor	CSE	4.8
5	Prof. P. M. Kadhav	BE(CSE)	Assistant Professor	CSE	4
6	Prof.K.R.Dabhade	ME(CSE)	Assistant Professor	CSE	4.11

12. Number of senior adjunct faculty: - NIL



13. Percentage of classes taken by temporary faculty – program-wise information.

Sr. No	Name of Faculty	Year	Program (CSE/IT)	Class	Subject	% of Lecture engaged
1	Prof. B. N. Jha	2013-14	IT	SE	DE	100%
				BE	BP	100%
		2014-15	IT	SE	DE	100%
				BE	DWDM	100%
				SE	STQA	100%
				BE	CSSL	100%
		2015-16	IT	TE	PIJ	80%
				BE	E-Buss	80%
				TE	STQA	100%
				BE	BDA	100%
2	Prof. K. R. Dabhade	2013-14	IT	BE	WIS	93 %
		2014-15	IT	TE	OS, Ad. Java	100%
		2015-16	IT	BE	CSSL	100%
3	Prof. P. M. Kadhav	2014-15	IT	SE	IWP	100%
				SE	OOP	90%
				BE	OOAM	100%
				BE	MOC	90%
		2015-16	IT	TE	DBMS	100%
				BE	OOAD	90%
4	Prof. S. M. Madhavi	2015-16	CSE/IT	TE	DAA	90%
5	Prof. A. V. Turukmane	2015-16	CSE/IT	BE	MOC	100%
6	Prof. A. S. Gadekar	2015-16	CSE/IT	TE	TOC	100%
7	Prof. S. M. Jaiswal	2013-14	IT	TE	PECS	90%
				BE	OOAD	100%
	Prof. P. P. Chouthmal	2013-14	IT	TE	SE	100%
				BE	DWDM	100%
				BE	DWDM	100%
				TE	TOC	100%
	2014-15	IT	BE	DWDM	100%	
TE			TOC	100%		
8	Prof. P. D. Patni	2013-14	IT	TE	DBMS	100%
				SE	DMS	100%
				BE	CS	100%
		2014-15	IT	TE	DBMS	100%



Sr. No	Name of Faculty	Year	Program (CSE/IT)	Class	Subject	% of Lecture engaged
9	Prof. K.T. Kanade	2013-14	IT	TE	MMC	100%
				TE	CS	100%
		2014-15	IT	TE	MMC	100%
				SE	CG	100%
				BE	DWDM	100%
				BE	MOC	100%
10	Prof. N. P. Jadhav	2013-14	IT	TE	SDL-I	100%
				TE	ANDROID	100%
				BE	CC	100%
				BE	DWDM	100%
		2014-15	IT	TE	SDL-I	100%
				TE	ANDROID	100%
				BE	CC	100%
				BE	DWDM	100%
		2015-16	IT	BE	DWDM	100%
		11	Prof. D. B. Gaikwad	2013-14	IT	BE
12	Prof. S. D. Raverkar	2013-14	IT	SE	USP	100%
				SE	IWP	100%
				BE	E-BUSS	100%
		2014-15	IT	FE-E	CE	100%
				FE-F	CE	100%
				TE	TOC	100%
				SE	MP	100%

14. Program-wise Student Teacher Ratio. 1:15

Sr.No	Year	Sem	No.of Staff	No. of Student	Student Teacher Ratio
1	2013-14	Sem I	16	240	1:16
2	2013-14	Sem II	16	240	1:16
3	2014-15	Sem I	12	180	1:15
4	2014-15	Sem II	12	180	1:15
5	2015-16	Sem I	8	120	1:15
6	2015-16	Sem II	8	120	1:15



15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: 01

16. Research thrust areas as recognized by major funding agencies

Following are the research thrust areas

H. Image Processing

I. Pattern Recognition

J. Machine Learning

K. Big Data

L. Cloud Computing

25. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. NIL

26. Inter-institutional collaborative projects and associated grants received

f) National collaboration b) International collaboration

1 International level collaboration WYVIL Systems Inc. Illinois,USA.[1-01-2014]

2 National level collaboration with Findability Solution, Aurangabad.[29-09-2015]

27. Departmental projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : NIL

28. Research facility / centre with

• **State recognition: NIL**

• **National recognition :NIL**

• **International recognition :NIL**

29. Special research laboratories sponsored by / created by industry or corporate bodies : NIL

30. Publications:

* **Number of papers published in peer reviewed journals (national / international)**

* **Monographs**

* **Chapters in Books**

* **Books edited**

* **Books with ISBN with details of publishers**

Sr.No	Name of Staff	Number of papers published in peer reviewed journals (national / international)	Books edited	Books with ISBN details of publishers	Number listed in International Database (Citation Index – range / average	Impact Factor – range / average	h-index
1	Prof.V.R.Mote	2013-14: 01						
		2014-15						
		2015-16: 05					2.4	
Sr.No	Name of Staff	Number of papers published in peer reviewed journals (national /	Books edited	Books with ISBN with details of publishers	Number listed in International Database (For e.g. Web of Science,	Citation Index – range / average	Impact Factor – range / average	h-index



		international)			Scopus, Humanities International Complete, Social Sciences Directory, EBSCO host, Medline, etc.)		rag e	
2	Prof.V.D.Jadhav	2013-14:						
		2014-15: 01						
		2015-16: 04					2.776, 5.663	
3	Prof.K.R. Dabhade	2013-14: 01					0.6	
		2014-15: 02					1.6	
		2015-16: 01					3.16	
4	Prof.P.M.Kadhav	2013-14: 01					1.674	
		2014-15: 01					2.196	
		2015-16: 02					2.07,3.274	

31. Details of patents and income generated: NIL

32. Areas of consultancy and income generated: NIL

33. Faculty selected nationally / internationally to visit other laboratories / Institutions / industries in India and abroad

Sr. No	Name of Faculty	Selected As	Nationally /Internationally to visit other laboratories / Institutions / Industries in India and abroad
1	Prof. V. R. Mote	Member	LIC Commitee Member
2	Prof. V. R. Mote	Paper Assessment	SRTM University
3	Prof. V. D. Jadhav	SAP Trainer	Wyvil System Inc, USA
4	Prof. D. T. Rathod	Researcher	SGGS COE Nanded



**26. Faculty serving in a) National committees b) International committees
c) Editorial Boards d) any other (specify)**

a) National committees /conferences/Boards

Sr.No	Name of Faculty	Members in National committees /conferences/Boards	Designation
1	Prof. V. R. Mote	Computer Society of India	Lifetime Member
2	Prof. V. R. Mote	Indian Society of Technial Education	Lifetime Member
3	Prof. V. R. Mote	Institute of Electronics and Telecommunication Engineers	Lifetime Member
4	Prof. D. T. Rathod	Computer Society of India	Lifetime Member
5	Prof. D. T. Rathod	Indian Society of Technial Education	Lifetime Member
6	Prof. D. T. Rathod	Institute of Electronics and Telecommunication Engineers	Lifetime Member

b) International Committees/ conferences/Boards

Sr. No	Name of Faculty	Members in International Committees/ conferences/Boards	Designation
1	Prof. V. R. Mote	BVICAM Dehli, Indicom 2017	Chair Session
2	Prof. D. T. Rathod	Institute of Electrical and Electronics Engineers	Member

c) Editorial Boards/Reviewer: NIL



27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).

Sr No	Academic Year	Faculty Name	Program Type	Program Name	No.Of Days	Organised By
1	2014-15	Prof Vishakha R Mote	Workshop	Hadoop Framework	1 day	PESCOE, Abad
2	2014-15	Prof D T Rathod	Workshop	Hadoop Framework	1 day	PESCOE, Abad
3	2014-15	Prof D T Rathod	Workshop	Big Data Analytics	1 week	PESCOE, Abad
4	2014-15	Prof D T Rathod	Workshop	Internet of things track	2 days	PESCOE, Abad
5	2014-15	Prof V D Jadhav	Workshop	Big Data Analytics	1 week	PESCOE, Abad
6	2014-15	Prof K R Dabhade	Workshop	Cloud Computing & Big Data	1 Day	PESCOE, Abad
7	2014-15	Prof K R Dabhade	Workshop	Development of Soft Skills	1 Day	PESCOE, Abad
8	2014-15	Prof K R Dabhade	Workshop	Network Security	2 Days	DIETMS, Abad
9	2015-16	Prof V R Mote	Workshop	Innovations & Patents IIAP 201	2 days	GEC, Abad
10	2015-16	Prof V R Mote	Workshop	Ekdanta	3 Days	Abad
11	2015-16	Prof V R Mote	Workshop	Rhythm	3 Days	Abad
12	2015-16	Prof D T Rathod	Workshop	Smart City	2 days	PESCOE, Abad
13	2015-16	Prof D T Rathod	Workshop	Development of Soft Skills	1 day	PESCOE, Abad
14	2015-16	Prof V D Jadhav	Workshop	Smart City	2 days	PESCOE, Abad
15	2015-16	Prof V R Mote	Workshop	Training the Trainer (TTT) Program on " Foundation Skill in Information Technology"	1 week	GEC, Abad
16	2015-16	Prof D T Rathod	Workshop	Emerging Technologies in Open Source	1 week	DIETMS, Abad
17	2015-16	Prof K R Dabhade	STTP	Emerging Technologies in Open Source	1 week	DIETMS, Abad



28. Student Projects

- percentage of students who have taken up in-house projects including inter-departmental projects: 100%•
- percentage of students doing projects in collaboration with other universities / industry / institute: NIL

29. Awards / recognitions received at the national and international level by

a) Awards / Recognitions received by faculty

Sr.No	Name of faculty	Awards / Recognition	Year	Organization
1	Prof. D. T. Rathod	PG Teacher	2015	Dr. B. A. M. U.
2	Prof. V. D. Jadhav	PG Teacher	2015	Dr. B. A. M. U.
3	Prof. V. D. Jadhav	Best Paper Award	2015	Internaltional Conference on Internet of Things,Nect Generation Network & Cloud Computing 2016



30. Seminars/ Conferences/ Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.

Sr.no	Year	Type (Seminar /Conf/ Workshop)	Funds By(National/ International)	Name of resource Person	Name of Event	Date	No. of Participants
1	2013-14	Workshop	Self	Staff From Various Engineering colleges	Workshop on TE(CSE/IT) Revised syllabus for staff	10/08/2013	30
2	2013-14	Seminar	Self		Seminar on Cyber Crime Awareness	01/10/2013	90
3	2013-14	Workshop	Self	Prof. Manjusha Deshmukh	CSI workshop on Network Simulator2 for SE(IT/CSE) and TE(CSE/IT) students	20/2/2014 21/2/2014	50
4	2014-15	STTP	IETE	Dr. Sharad Gore, University of Pune Dr. Pattabiraman. V., VIT, Chennai Dr. Parvati. R., VIT, Chennai Dr. L. V. Subramaniam, IBM, Delhi Dr. Ullas Nambiar, CeTi, EMC, Bangalore Mr. Bhupesh Chawda, IBM, Delhi Ms. Shrida Girme, Inteliment Tech., Pune	1 week IETE sponsored STTP on Big Data Analytics	02/6/2014 to 06/6/2014	65
5	2014-15	Workshop	Self	Kiran Chaudhari	Workshop on Entrepreneurship Awareness	10/9/2014 11/9/2014	50
6	2014-15	Workshop	Self	Prof. Jayesh Deshmukh	Workshop on "Development of Soft Skills"	13/2/2015	50
7	2015-16	Workshop	Self	Kedar Dixit	Workshop on Hadoop Framework	12/9/2015	50



31. Code of ethics for research followed by the departments: Staff strictly follows plagiarism while publishing a paper.

32. Student profile program-wise:

Name of the Program	Applications received	Selected Male Female	Lateral Entry		Pass percentage	
			Male	Female	Male	Female
Information Technology. (2015-2016)	-	IT Branch Closed	-	-	-	-
Information Technology. (2014-2015)	-	30	11	19	63	57
Information Technology. (2013-2014)	-	26	16	10	68	90

33. Diversity of students

Name of the Program	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
Information Technology. (2015-2016)	-	-	-	-
Information Technology (2014-2015)	7	-	-	-
Information Technology (2013-2014)	33	-	-	-

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise.

35.

Batch	2015-16	2014-15	2013-14
No. of Students	GATE/GRE/GMAT	GATE/GRE/GMAT	GATE/GRE/GMAT
--	--	--	--



36. Student progression

Student progression	2015-16	Percentage Against Enrolled	2014-15	Percentage Against Enrolled	2013-14	Percentage Against Enrolled
UG to PG	1	2	4	16	6	7
PG to M.Phil,DM / M Ch / DNB	-	-	-	-	-	-
PG to Ph.D.	-	-	-	-	-	-
Ph.D. to Post-Doctoral	-	-	-	-	-	-
Employed • Campus selection • Other than campus recruitment	2	5	-	-	-	-
	-	-	2	8	9	9
Entrepreneurs	-	-	-	-	1	1

37. Diversity of staff

38.

Percentage of faculty who are graduates	2013-2014	2014-2015	2015-2016
of the same university	13	11	4
from other universities within the State	2	3	2
from universities from other States	-	-	-
from universities outside the country	-	-	-

39. Number of faculty who were awarded M.Phil.,DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period

Assessment Period	2015-2016	2014-2015	2013-2014
No. of Faculty	Ph.D.-NIL	Ph.D.-NIL	Ph.D.-NIL

40. Present details of departmental infrastructural facilities with regard to

f) **Library :-** In the departmental library total number of books available are 227 and working hours are from 10.30 Am to 05.30 Pm



g) Internet facilities for staff and students

Sr. No.	Description of Faculty Room/Laboratory Name	Computing Facility Available			
		Server	Computers	Internet	Wi-Fi
1	Web Development Lab		15	YES	YES
2	Project Development Lab		15	YES	YES
3	Multimedia Lab		15	YES	YES
4	Operating System Lab		15	YES	YES
5	Advance Software Lab		15	YES	YES
6	Object Technology Lab		20	YES	YES

h) Total number of class rooms

Two (As only two are required for the final year)

i) Class rooms with ICT facility and ‘smart’ class rooms

Two Class Rooms with LCD Projector and Wi-Fi Facility Available

j) Students’ laboratories

k)

Sr. No.	Laboratory Name	Student Capacity	Area	Total Cost In Rs.	Quality of Instrument
1	Web Development Lab	15	35.67 Sq.Mtr	4,38,422/-	All machines are Working
2	Project Development Lab	15	35.67Sq .Mtr	5,29,342/-	All machines are Working
3	Multimedia Lab	15	32.23 Sq.Mtr	9,98,725/-	All machines are Working
4	Operating System Lab	15	35.69 Sq.Mtr	4,21,528/-	All machines are Working
5	Advance Software Lab	15	32.71 Sq.Mtr	4,21,528/-	All machines are Working

f) Research laboratories – Nil

41. List of doctoral, post-doctoral students and Research Associates

a) From the host institution/university- Nil

b) From other institutions/universities-Nil



42. Number of post graduate students getting financial assistance from the university. NA (No PG Course)

Year	GOI/UGC/University Scholarship	Tuition fee refund
2015-16	-	-
2014-15	-	-
2013-14	-	-

43. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology. : NIL

44. Does the department obtain feedback from,

a. Faculty on curriculum as well as teaching learning evaluation? If yes, how does the department utilize the feedback?

Ans: Yes. The institute has formed various department wise committees such as program assessment committee (PAS) for ensuring involvement of all stake holders for the effective conduct of university curriculum so as to fulfill the objectives. Faculty is one of the stake holders. The department has also obtained feedbacks from the faculty teaching the respective subjects about the university curriculum. When the affiliated university changes the syllabus the faculties participate in the seminars arranged by university and various engineering colleges affiliated to the university and give their feedbacks about the structure of curriculum, the method of teaching that should be adapted, they suggest practical assignments to be conducted so as to fulfill the learning objectives. Some sample feedbacks of the faculty are as below.

The department has formed an Administrative system called program assessment committee (PAS) in which all faculty members are involved. Faculties discuss and share their feedbacks about curriculum establishment PEOs/POs establishment, their validation, course outcomes validation and assessment processes. It helps in ensuring the attainment of PEOs & Pos It includes committees and their functions, working process and related regulations.

1. Program Coordinator
2. Module Coordinator
3. Program Assessment Committee
4. Department Advisory Board

Program Assessment Committee

- Program Assessment Committee consists of Program Coordinator, Module Coordinator and faculty representatives Chaired by Program Coordinator, the committee monitors the attainment of PO and PEO's.
- Evaluates program effectiveness and proposes necessary changes Prepares periodic reports records on program activities, progress, status or other special reports for management key stake holders.
- Motivates the faculty and students towards attending workshops, developing projects, working models, paper publications and research



- Interact with students, faculty, Program Coordinators, Module Coordinator and outside community agencies (through their representation) in facilitating PEO.
- PAC meets at least once in 6 months to review the program and submits report to
- Department Advisory Board

Course Coordinator

- 1. Either one of the senior faculty members who teaches common courses (if any) otherwise individual faculty will be the course coordinator.
- 2. Monitor and reviews the activities related to attainment of course outcomes

Module Coordinator

- Coordinates and supervise the faculty teaching the particular course in the module (group of like courses).
- Responsible for assessment of the course outcomes.
- Recommends and facilitates workshops, faculty development programs, meetings or conferences to meet the course outcomes.
- Analyses results of particular course and recommends the program Coordinator and /or Head of the department to take appropriate action.
- Liaise with students, faculty, program coordinator and Head of the Department to determine priorities and policies.

Program Assessment Committee of CSE Department:

Module Coordinators

- 1) Module Name: Engineering Sciences
Subjects Included : GIS, GIT, EIS
Module Coordinator: Prof. V.R. Mote
- 2) Module Name: Professional/core Subjects
Subjects Included : DAA, DS, SE, STQA
Module coordinator : Prof. V.D. Jadhav
- 3) Module Name: Professional/core Subjects
Subjects Included CN-II, DMS, CG, CN-I
Module coordinator: Prof. D.T. Rathod
- 4) Module Name: Diversified subjects
Subjects Included : OOPS, PIJ, Android, DWDM,
Module coordinator: Prof. K.R. Dabhade

42 b Does the department obtain feedback from students on staff, curriculum and teaching learning evaluation and how does the department utilize the feedback?

YES.

The department has obtained feedback from all SE CSE, TE CSE & BE CSE students on the said points and maintains the record of it. The faculties take unit wise feedback of each subject they teach and make use of it for further improvements in the teaching plan. The record of all three years is maintained in the department in the form of hard copies. Some examples of feedbacks are attached herewith.

- 6) The students suggested to take them to industry visit. So the department has arranged the industrial visits every year at software industries such as INFOSYS, Bankbridge etc.
- 7) The students have suggested to give emphasis on practical knowledge as on advance technology. So the department has conducted various events such as



workshops seminars webinars, expert lectures , every year. The record of all three years activities is maintained in the department.

42.c Does the department obtain feedback from alumni and employers on the programs offered and how does the department utilize the feedback?

Yes. The department has organized alumni meet every year and taken feedback from alumni's time to time through correspondence and also the employers while they come for campus interviews. The feedback includes PEO Validation survey, Alumni Survey, Alumni feedback form. The records of these documents for last three years are maintained, reviewed by PAC and suggestions are used to improve teaching learning process.

43.List the distinguished alumni of the department:

Sr.No.	Name of the Alumni	Industry
1	Divya Kaul	Capgemini, India
2	Dilip Khadse	Amdocs, Pune
3	Pravin Pawar	Oracle India, Bangalore
4	Sandip Borde	Cognizant, Pune
5	Tushar Netke	TCS
6	Raghunath Kale	Wipro Technology, South Africa
7	Ketki Kulkarni	Infosys
8	Shweta Patharkar	Infosys
9	Rahul Salunke	Techrel, Pune (Entrepreneur)
10	Attar Abizar	Yahoo India



44. Give the details of student enrichment programs (special lectures/ workshops/ seminar) involving external experts)

Following is the List of student enrichment programs for last three years.

Sr. no	Year	Type (Seminar/ Conf/Workshop)	Funded By(National/International)	Name of resource Person	Name of Event	Date	No. of Participants
1	2013-14	Workshop	Self	Staff From Various Engineering colleges	Workshop TE(CSE/IT) Revised syllabus	10/08/2013	30
2	2013-14	Seminar	Self		Seminar on Cyber Crime Awareness	01/10/2013	90
3	2013-14	Workshop	Self	Prof. Manjusha Deshmukh	CSI workshop on Network Simulator2 for SE(IT/CSE) and TE(CSE/IT) students	20/02/2014 21/02/2014	50
4	2014-15	STTP	IETE	Dr. Sharad Gore, University of Pune • Dr. Pattabiraman. V., VIT, Chennai • Dr. Parvati. R., VIT, Chennai • Dr. L. V. Subramaniam, IBM, Delhi • Dr. Ullas Nambiar, CeTi, EMC, Bangalore • Mr. Bhupesh Chawda, IBM, Delhi • Ms. Shrida Girme, Inteliment Technologies, Pune	1 week IETE sponsored STTP on Big Data Analytics	02/06/2014 to 06/06/2014	65
5	2014-15	Workshop	Self	Kiran Chaudhari	Workshop on Entrepreneurship	10/09/2014 11/09/	50



					Awareness	2014	
6	2014-15	Workshop	Self	Prof. Jayesh Deshmukh	Workshop on "Development of Soft Skills"	13/02/2015	50
7	2015-16	Workshop	Self	Kedar Dixit	Workshop on Hadoop Framework	12/09/2015	50

45. List the teaching methods adopted by the faculty of different programs including clinical teaching:

Following teaching methods are adopted by faculties:

- M1: Lecture interspersed with discussions
- M2: Lecture with a quiz
- M3: Tutorial
- M4: Demonstration (Such as model, laboratory, field visit)
- M5: Group Discussion
- M6: Group Assignment/ Project
- M7: Presentations
- M8: Asynchronous Discussion

Assessment Tools used:

1. Direct Assessment Tools

- **Home Assignment**-Each and every student is assigned with course related tasks during every course work once or twice and assessment will be done based on their performance. Grades are assigned depending on their innovation in solving/deriving the problems.
- **Assignment**-The assignment is a qualitative performance assessment tool designed to assess students' knowledge of engineering practices, framework, and problem solving. An analytic rubric was developed to assess students' knowledge with respect to the learning outcomes associated with the scenario tool.
- **Online Examination**- Online Examination System is a Multiple Choice Questions (MCQ) based examination system that provides an easy to use environment for both Test Conductors and Students appearing for Examination.
- **Semester End Examination**-Semester End examination is a metric for assessing whether all the POs are attained or not. Examination is more focused on attainment of course outcomes and program outcomes using a descriptive exam.
- **Rubrics**- A rubric explains to students the criteria against which their work will be judged with the "scoring rules". It makes public key criteria that students can use in developing, revising, and judging their own work.

2. Indirect Assessment Tools



- **Program level statistics-** At the end of every academic year annual report is developed where the statistics of students who have participated in professional bodies/student chapters/workshops/seminars/conferences/paper presentations /internships/industry visit etc.. is prepared. This statement is considered to indirectly assess the POs
- **Survey reports-** Indirect assessment strategies may be easily implemented by embedding them in the end-of-course evaluation form, Alumni Survey and Employer Survey.
- **Graduate/Exit Survey:** during the program
- **Alumni Survey:** after one year of graduation
- **Employer Survey:** after one year of graduation

46. How does the department ensure that the program objectives are constantly met and learning outcomes continuously monitored?

The department has formed an Administrative system to continuously monitor program objectives are constantly met and learning outcomes called program assessment committee (PAS) in which all faculty members are involved. Faculties discuss and share their feedbacks about curriculum establishment PEOs/POs establishment, their validation, course outcomes validation and assessment processes. It helps in ensuring the attainment of PEOs & Pos It includes committees and their functions, Working process and related regulations.

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- Evaluates program effectiveness and proposes necessary changes Prepares periodic reports records on program activities, progress, status or other special reports for management key stake holders.
- Motivates the faculty and students towards attending workshops, developing projects, working models, paper publications and research

Interact with students, faculty, Program Coordinators, Module Coordinator and outside community agencies (through their representation) in facilitating program educational objectives.

The faculties attach the details of learning outcomes teaching plan in their course files and feedback from students is taken to monitor them.

47. Highlight the participation of students and faculty in extension activities:

Students and faculty have participated in extension activities under **ITSA** such as Publication of Magazine for the Department of Information Technology, P.E.S. College of Engineering, Aurangabad. The Magazine was published by Prof. V.D. Jadhav(ITSA Incharge) under the guidance of Prof. S.N. Kakarwal, Head of Department (IT branch)

Objective of Magazine: To give the highlights of activities performed by student and staff

48. Give the details of beyond syllabus scholarly activities of the department.



The department helps in arranging Im-plant training, Webinar, Seminar and STTP, workshops to introduce beyond syllabus technology for students and faculty. Details of some of them are as below:

- 1) **Implant training** was coordinated by TPO in coordination with Prof.Dr.S.N. Kakarwal for IT and CSE students. Total 7 students from IT and CSE branch had a training at Yelo Driver Pvt. Ltd., Hyderabad. Students got training on Android regarding creating Apps using different tools and software.
- 2) **Webinar on Cloud Computing** was conducted by the Industry Expert Ms. Samidha Garud of Yelo Driver Pvt. Ltd., Hyderabad. This event was coordinated by Prof. D.T. Rathod for BE (IT & CSE) students.

48: Give details of “beyond syllabus scholarly activities” of the department.

On the occasion of Parent meet a skit was organized by the student on the theme “Addiction of Usage of Mobile”. The objective was to give awareness of pros and cons of Use of Mobile to the parents and the students. This Parent meet was coordinated by Prof. V.R. Mote and Prof. S.N. Kakarwal (Head of IT Department)

49. State whether the program/ department is accredited/ graded by other agencies? If yes, give details. : No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Conducting In-house and industrial training activities

51. Detail five major strengths, weaknesses, opportunities and challenges of the department.

By doing SWOT analysis through continuous meetings of faculty members and stake holders like parents, students, higher management authorities, the department has recognized following strengths , weaknesses, opportunities and challenges:-

Strengths:

- 1) Staff is experienced and senior staff is highly qualified.
- 2) The labs are well established as per the norms of AICTE
- 3) The facility of library is available
- 4) Plenty of student enrichment programs are conducted

Weaknesses:

- 1) Lack of Industry based projects
- 2) Most of students are from rural areas; hence they are lagging behind technical as well as soft skills.
- 3) No patents

Opportunities:

- 6) Innovation in teaching learning process

Challenges:

- 1) Students coming from rural area need to improve a lot
- 2) Fast changing computer and information technology.
- 3) Growing competitions among engineering colleges

52: Future plans of the department: --- The department has been merged in Computer Science Department due to closure of the Information Technology course as only final year batch is in progress.



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PEOPLE'S EDUCATION SOCIETY'S (MUMBAI)

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SECRETARY

PRINCIPAL

DR. ABHIJEET P. WADEKAR
Ph.D. (Civil Structure)

Ref.No. : PESCOE / /20 -20 /

Date :

DECLARATION BY THE HEAD OF THE INSTITUTION

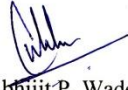
I certify that the data included in the Self Study Report (SSR) are true to the best of my knowledge.

The SSR is prepared by the Institute after internal discussions and no part thereof is outsourced.

I am aware that the peer team will validate the information provided in this SSR during the peer team visit.

Date: 5/10 / 2016
Place : Aurangabad.




Dr. Abhijit P. Wadekar,
Principal
P.E.S. College of Engineering,
Nagsenvana,
Aurangabad.