SELF-STUDY REPORT (SSR)

FOR ACCREDITATION OF

Shri Pandurang Pratishthan Pandharpur's

KARMAYOGI ENGINEERING COLLEGE, SHELVE, PANDHARPUR

SUBMITTED TO

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)

P.O. Box No.1075, Nagarbhavi Bangalore - 560072

SEPTEMBER, 2015

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DECLARATION BY THE HEAD OF THE INSTITUTION

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

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

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

Principal
Karmayogi Engineering College, Shelve

Place: Shelve, Pandharpur

Date: 14/09/2015

PREFACE

Technical education is a fast growing sector with the pace of ever-changing technology. Creating quality technical experts who can lead the 21st era with an enduring vision and able leadership is the need of the time. The NAAC has vision of making quality in the defining element of higher education in India through a combination of self and external quality evaluation, promotion and sustenance initiatives. To match these kind of standards institute need to move for accreditation like NAAC and NBA. In year 2009 Karmayogi Engineering College has been started at rural place like Shelve. The trust has 50 acres of land for the said purpose at the bank of river Chandrabhaga and provided state of art infrastructure along with hostel facility for boys and girls

Karmayogi Engineering College, approved by AICTE, New Delhi, recognized by Government of Maharashtra and affiliated to Solapur University, Solapur .The college offers 4 UG programs viz. Civil Engineering (60), Computer Science and Engineering (60), Electronics and Telecommunication Engineering (60) and Mechanical Engineering (120).

Today, the Institute is one of the few Engineering institutions preferred by students in the region of Solapur. National Assessment and Accreditation Council with its quality parameters to evaluate and grade an institute for its quality become significant. Indeed, we are fortunate to submit our Self-Study Report (SSR) for our Institute for its first cycle as it will let us known our standing and worth and help us to chalk out the further path of progress in the days to come.

I take this opportunity to congratulate and thank the Management, the members of Steering Committee and the Internal Quality Assurance Cell (IQAC) for sharing the responsibility of drafting the SSR. I also thank all administrative sections and academic departments of the University for the best of their services to the stakeholders. I especially want to express my gratitude towards the Solapur University, Solapur for extending the very best of their services and support to our Institute.

EXECUTIVE SUMMARY

The trust is led by Shri Prashantrao Paricharak, under the most able guidance of honorable Ex-MLA of Pandharpur Shri Sudhakarpant Paricharak, with only motto "Education for All". Shri Prashantrao Paricharak has proved his abilities by establishing various industries, financial and educational institute and running them very successfully. He has created new horizon for these institutions. The chairman and trustees of Shri Pandurang Pratishthan wishes to bring a new era of technical and professional education in and around Pandharpur and to begin with, the trust started a Karmayogi Polytechnic College, which proved to be a grand success hence in year 2009 started Karmayogi Engineering College. The trust has purchased around 50 acres of land for the said purpose at the bank of river Chandrabhaga and completed the college building as well as separate hostel for boys and girls.

Karmayogi Engineering College, approved by AICTE, New Delhi recognized by Government of Maharashtra and affiliated to Solapur University, Solapur was established in the year 2009. This college offers 4 UG programs viz. Civil Engineering (60), Computer Science and Engineering (60), Electronics and Telecommunication Engineering (60) and Mechanical Engineering (120). The college has a splendid campus spread over 100 acres. The college has admirable infrastructure, well equipped laboratories, a spacious library and other general comforts. There are sufficient numbers of latest computer systems with cutting-edge softwares. The college has a team of well qualified and experienced faculty to impart the knowledge to groom the students into industry ready engineers.

The college has engineering research and development (ERD) department which is a platform provided by college to the students and faculties of all streams to continuously excel and thus by coming together enlivens the research themes. The mission is to create awareness about upcoming technologies and provide platform to budding research workers. Also to promote, develop and facilitate creative endeavors, research and development at the Karmayogi Engineering College that fosters the technological, economic and social wellbeing of society.

Karmayogi Engineering College is committed to offer distinctive engineering education to concoct the graduates with domain knowledge, essential skills and right attitude. The vision of the institute is to make outstanding academic complex in order to achieve excellence in the field of Engineering and Technology. Each stakeholder of the institute is committed to prepare the students who will develop their expertise in their specialization within three to four years of experience of working in the field and will have concern to many social and contemporary issues.

Vision

To make outstanding academic complex in order to achieve excellence in the field of Engineering and Technology.

Mission

- To empower the faculty and aspiring engineering students to explore the world of technology.
- To mould the engineering graduate who will nourish the ever-changing needs of society and industry
- To promote the collaborative research and consultancy assignments.

Quality Policy

We are committed to,
- Impart latest knowledge in engineering field to the students.
- Appoint qualified staff and improve their knowledge and skills.
- Provide competent engineers to the industry and society.
- Make responsible, peace loving and knowledgeable citizens of India by inculcating professional and ethical values

Short Term Goals

- To conduct awareness program among HSC students to increase admissions
- Transforming KEC into a preferred institution for quality learning.
- To start an Entrepreneur development cell.
- Getting funds from various agencies like AICTE, DST&UGC for creating research facilities.
- Enriching students to be employable through industry add-on courses and improving communications skills among students.
- Preparing students for higher studies by providing coaching for competitive examinations.
- Research and consultancy activities through industry institute tie-ups in all the departments.
- Offering skill development programmes.

Long term Goals

- To emerge as a research centre in various disciplines of engineering and technology.
- To become an autonomous institute.
- To introduce various professional programs in collaboration with global institutions of repute.
- 100% student placement in national and multi-national companies.
- Develop students into successful entrepreneurs.

SWOC ANALYSIS

Strengths:

1. Dedicated and self motivated faculty and staff
2. Academics are followed with proper deadlines.
3. Well developed infrastructure and state of art laboratories and library.
4. Green, remote, noise free and pollution free campus for better teaching learning process.
5. Deputation of faculty for pursuing higher education and research work.
6. Involvement of faculty in overall development of student.

Weaknesses:

1. Transport facility is inadequate.
2. Approach road to the institute is worst.
3. Rate of Placement in Grade A companies is low.
4. Quality of students getting admitted is poor.
5. Poor faculty cadre ratio.
6. Industry – Institute interaction and communication with Alumni is weak.

Opportunities:

1. Highly educated staff can fetch more number of good students.
2. To emerge as best educational hub in Maharashtra
3. To become well known shelter for research.
4. To inculcate entrepreneur culture among students

Constraints/Threats:

1. Low inclination of students towards engineering courses
2. Professional education is becoming only exam oriented which may lead to unemployment
3. Recession scenario in industry.

PROFILE OF INSTITUTION

1. **Name and Address of the College:**

Name:	Karmayogi Engineering College	
Address:	Gat No 125 At Post Shelve Tal. Pandharpur	
City: Pandharpur	Pin Code: 413304	State: Maharashtra
Website:	www.karmayogiengg.com	

2. **For Communication:**

Designation	Name	Telephone With STD	Mobile	Fax	Email
Principal	Dr. S.P Patil	O:02186-250310	9503763370	02186 250305	kecmailbox@rediffmail.com
Vice Principal	Mr. J.L Mudegaonkar	O: 02186-250341	9421090805	02186 250305	kechodetc@gmail.com
Steering Committee Co-ordinator	Mr A.A Joshi	O:02186-250341	9665979656	02186 250305	ashu.joshi05@gmail.com

3. **Status of institution:**

Affiliated College	✓
Constituent College	
Any other (Specify)	

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

For Men	
For Women	
Co-education	✓

b. By Shift

Regular	✓
Day	
Evening	

5. It is recognized minority institution?

Yes	
No	✓

6. Source of funding:

Government	
Grant-in-aid	
Self-financing	✓
Any other	

7.

a. **Date of establishment of the college:** 15/08/2009 (dd/mm/yyyy)

b. **University to which the college is affiliated/ or which governs the college (If is a constituent college)**

Solapur University, Solapur

c. **Details of UGC recognition:** Not applicable

Under Section	Date, Month &Year (dd-mm-yyyy)	Remarks(If any)
i.2(f)		
ii.12(B)		

(Enclose the Certificate of recognition u/s2(f) and 12(B) of the UGC Act)

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

Under Section/ Clause	Recognition/ Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i. AICTE	UG Programmes	07/04/2015	2015-16	Approval to be renewed Annually

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

Yes	✓	No	

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

Yes		No	✓

9. **Is the college recognized?**
    a. **By UGC as a college with Potential for Excellence (CPE)?**

Yes		No	✓

    If yes, date of recognition…………(dd/mm/yyyy)
    b. **For its performance by any other governmental agency?**

Yes		No	✓

    If yes, name of agency…………and
    Date of recognition ………….(dd/mm/yyyy)

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

Location	Rural Area
Campus are in sq. mts.	40,000 sq. mts [10 Acres]
Built up area in sq. mts.	13240 sq. mts.

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

- Auditorium/ Seminar Complex with infrastructural facilities: **Amphitheatre**
- Sports facilities   ✓
    o Playground   ✓
    o Swimming Pool
    o Gymnasium   ✓
- Hostel
    o Boys' Hostel
        - Number of Hostels: 01
        - Number of inmates: 700
        - Facilities (mention available facilities): Common toilet and bath with hot water facility, purified drinking water, mess facility, 24 hour security, standby electricity, TV room, and computer lab with Internet.
    o Girls' Hostel
        - Number of Hostels: 01

- Number of inmates: 300
- Facilities (mention available facilities): Common toilet and bath with hot water facility, purified drinking water, mess facility, 24 hour security, standby electricity, TV room, and computer lab with Internet.
  - Working women's Hostel: **Not available**
- Residential facilities for teaching and non-teaching staff (give numbers available –cadre wise): **Available for bachelor staff only provided on request.**
- Cafeteria – **Available**
- Health Centre – **Available**
- First-aid, Inpatient, Outpatient, Emergency care facility, Ambulance……. Health Centre staff-
  Qualified doctor   Full time ✓   Part-time
  Qualified Nurse   Full time   Part-time
- Facilities like banking, post office, book shops: **ATM center**
- Transport facilities to cater to the needs of students and staff: **Available**
- Animal house: **Not available**
- Biological waste disposal: **Not required**
- Generator or other facility for management/regulation of electricity and voltage: **Available**
- Solid waste management facility: **Not available**
- Water harvesting: **Available**

12. Details of programmes offered by the college. (Give date for current academic year)

S N	Programme Level	Name of the Programme	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	*No. of students admitted
01		Civil Engineering	4 Years	12th Science	English	60	79
02		Computer Science and Engineering	4 Years	12th Science	English	60	25
03	Under-Graduate	Electronics & Telecommunication Engineering	4 Years	12th Science	English	60	33
04		Mechanical Engineering	4 Years	12th Science	English	120	95

*No students admitted means admission for FE+DSE.

13. Does the college offers self-financed programmes?

Yes	✓	No	

If yes, how many? | 04 |

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

Yes		No	✓	Number	0

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

Faculty	Departments	UG	PG	Research
Engineering	Civil Engineering	✓	NA	NA
Engineering	Computer Science and Engineering	✓	NA	NA
Engineering	Electronics & Telecommunication Engineering	✓	NA	NA
Engineering	Mechanical Engineering	✓	NA	NA

16. Number of Programmes offered under (Programmes and a degree course like BA, BSc, MA, and M.Com…)
   a. Annual system | |
   b. Semester system | 01 |
   c. Trimester system | |

17. Number of Programmes with
   a. Choice Based Credit System | 01 |
   b. Inter/Multidisciplinary Approach | 00 |
   c. Any other (apecify and provide details) | 00 |

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

Yes		No	✓

If yes,

   a. Year of Introduction of the programme(s) …………….(dd/mm/yyyy)

and number of batches that completed the programme [ ]

b. NCTE recognition details (if applicable)
   Notification
   No.:………………………………………Date:………………………………………
   …………………………………………….(dd/mm/yyyy)

c. Is the institution opting for assessment and accreditation of Teacher Education Programmes separately?

Yes		No	

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

Yes		No	✓

If yes,

a. Year of Introduction of the programme(s) …………….(dd/mm/yyyy)
   and number of batches that completed the programme [ ]

b. NCTE recognition details (if applicable) Notification
   No.:………………………………………Date:………………………………………
   …………………………………………….(dd/mm/yyyy)

c. Is the institution opting for assessment and accreditation of Teacher Education Programmes separately?

Yes		No	

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

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC/University/ State Government *Recruited*	01	00	00	00	08	01	00	01	00	00
Yet to recruit	03	02	10	05	33	17	01	00	00	00
Sanctioned by the Management/ society or other authorized bodies *Recruited*	00	00	00	00	57	08	14	00	12	00
Yet to recruit	04	01	03	02	02	00	00	00	00	00

*M-Male*F-Female

* Note Gender ratio 70:30(M: F)

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Ph.D.	01	00	00	00	00	00	01
M.Phil.	00	00	00	00	00	00	00
PG	00	00	00	00	08	01	09
Regular teachers							
Ph.D.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
M.Phil.	00	00	00	00	02	00	02
PG	00	00	00	00	24	02	26
PG Appear	00	00	00	00	17	03	20
BE	00	00	00	00	14	03	17
Visiting teachers							
Ph.D.	04	00	02	00	00	00	06
BE	00	00	00	00	04	00	04
PG	00	00	01	00	02	00	03

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

13

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

Categories	2011-12		2012-13		2013-14		2014-15	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	12	00	11	00	16	02	33	05
ST	00	00	01	00	01	00	00	00
OBC	36	04	12	02	30	04	31	07
General	148	35	82	17	97	31	106	35
Others	34	04	28	04	27	09	45	12

24. Details on student enrollment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same State where the college is located	668	NA	NA	NA	668
Students from other states of India	00	NA	NA	NA	NA

NRI students	00	NA	NA	NA	NA
Foreign students	00	NA	NA	NA	NA
Total	668	-	-	-	668

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

UG | 00 | PG | -- |

26. Unit Cost of Education

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

(a) Including the salary component | Rs. 69,913/- |
(b) Excluding the salary component | Rs. 28,185/- |

*above excluding the salary component of exclusive depreciation

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

Yes | | No | ✓ |

If yes,

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

Yes | | No | |

b) Name of University which has granted such registration.

| |

c) Number of programmes offered | |

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

Yes | | No | |

28. Provide Teacher-student ratio for each of programme /course offered:
1:15

29. Is the college applying for

Accreditation: Cycle1 | ✓ | Cycle2 | | Cycle3 | | Cycle4 | |
Re-Assessment: | |

(Cycle1 refers to first accreditation and Cycle2, Cycle3 and Cycle4 refers to re accreditation)

30. Date of accreditation* (applicable for Cycle2, Cycle3, Cycle4 and re-assessment only)

Cycle1:…………(dd/mm/yyyy) Accreditation Outcome/Result………….
Cycle2:…………(dd/mm/yyyy) Accreditation Outcome/Result………….
Cycle3:…………(dd/mm/yyyy) Accreditation Outcome/Result………….

31. Number of working days during the last academic years:

> 250

32. Number of teaching days during the last academic year
(Teaching days means days on which lecturers were engaged excluding the examination days)

> 143

33. Date of establishment of Internal Quality Assurance Cell (IQAC)
IQAC: 20/07/2013 (dd/mm/yyyy)

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC
AQAR (i) _____ (dd/mm/yyyy)
AQAR (ii) _____ (dd/mm/yyyy)
AQAR (iii) _____ (dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include: NA

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

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

Vision

To make outstanding academic complex in order to achieve excellence in the field of engineering & technology.

Mission

- To empower the faculty and aspiring engineering students to explore the world of technology.
- To mould the engineering graduate who will nourish the ever-changing needs of society and industry.
- To promote the collaborative research and consultancy assignments.

Objectives

- To emerge as a research centre in various disciplines of engineering and technology.
- To become an autonomous institute.
- To introduce various professional programs in collaboration with global institutions of repute.
- 100% student placement in national and multi-national companies.
- Develop students into successful entrepreneurs.

Communication to students, teachers, staff and other stakeholders:

The vision and mission statements are communicated to all students, teachers, staff and other stakeholders through, display boards and institutewebsite. The vision, mission and quality policy are also published in the college prospectus making them available to students, parents/guardians and the other stakeholders.

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

Academic calendar of college is prepared in line with the university academic calendar. Subject allotment is made before the start of semester i.e. after the end of previous semester so the faculty should get optimum time for preparation of subject. The subject is allocated to faculty by his/her choice sheet, all this procedure is done after end of previous semester.

1. Readiness of faculty

Faculty is ready in following manner for academic implementation

1) Teaching plan
2) Lesson plan

3) Laboratory plan
4) Time table preparation as per curriculum guidelines
5) Plan for content beyond syllabus.

2. Implementation

Lecture monitoring system is developed in our institute to check whether the lectures are conducted as per time table or not, also senior faculty members of our institute observe the lecture delivery of staffs in class rooms. Syllabus review is taken at the end of every month for timely completion of syllabus with effective quality. Also the student feedback is taken at the end of every month for effective coordination between students and staffs. Academic diary is verified at the end of every month by HOD.

3. Performance analysis

There are two unit tests conducted during each semester for evaluating the performance of students. After the completion of syllabus, prelim exam is taken to evaluate the overall performance of the student of semester. The analysis of student feedback is made for overall performance evaluation of the staff.

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

Financial support is given for attending STTP Programmes, workshops etc. to faculties. The college central library is equipped with all the necessary text books, reference books, journal, magazines etc. which provides study material to faculties for preparation of notes, presentations if any etc. Xerox and binding facility is available in college so that if some important study material which is out of print can be Xeroxed and bounded. Stationary is provided for faculties to prepare notes, question banks etc. consumable material is provided to labs for the conduction of practicals. Models of some instruments or components are prepared and academic charts are purchased for easy understanding of the concepts in class rooms for some subjects.

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

Recently College had arranged an expert lecture on outcome based teaching-learning system by Prof. Revankar P S. Faculty development programmes are arranged periodically for improving faculty performance. Industrial visits are arranged for students of their respective subjects to get idea about the industry working environment. Our faculties are duputed for the workshops on syllabus setting organized by university. The necessary text books and reference books are procured for the revised curriculum. Laboratories are upgraded regularly for smooth conduction of practicals.

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

The regular feedback is taken from industries, alumni students and parents for continuous improvement and up gradation of the institute facilities with current scenario. All the departments have made MOU's with different industries for interaction of faculties and students with industries whenever necessary.

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

Dr. S.P. Patil, Principal of the institute, is a member of Board of studies, chairman for electrical and electronics engineering branch. Suggestions related to curriculum, question paper pattern, examination schemes etc. are collected from faculties also senior faculty from various departments deputed for syallabus setting workshops and presented in institute meeting and forwarded to university.

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

No. The curriculum development is done by the university. As affiliated colleges cannot develop the curriculum, but participate in curriculum development with proper feedback and put suggestions for the development of the curriculum from time to time. But department have developed additional curricular to achieve program outcomes.

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

The college conducts model tests to analyze the understanding of the students related to the curriculum. Students who require assistance are identified and taken care separately. Further, student feedback is obtained orally during the class review. The Heads of the departments periodically review the progress in the syllabus completion and also the performance of the students.

1.2 Academic Flexibility

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

Goals and Objectives:
- To improve communication and presentation skills of students.
- To prepare the student industry ready.
- To prepare the student for GATE exam.
- To teach foreign language.
- To improve leadership skills of students.
- To make student aware of latest technology development.

Courses/Programmes/Events organized:
- Annual technical event "KarmaTech".
- Softskills development programs by external agencies.
- GATE crash course/NTPEL video lectures.
- Spoken tutorial programs offered by IIT, Mumbai.
- German language course (proposed).
- Technical competition in association with Texa instruments, Bangalore.
- Aptitude/personality developemtn programs.
- Inclusion of extracurricular activity in regular class time tables.
- Organization of various competitions by departmental student association.

1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If yes give details.
No, institute does not facilitate such programmes at present.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issue may cover following and beyond
Following are some of the ways with reference to academic flexibility through which students get help for skills development, academic mobility, progression to higher studies and improvement in employability potential.
a. Range of core/elective options offered by the university and those opted by the college:
Core /elective options: Under the four year degree program, a student can specialize in any one of the following fields: Mechanical Engineering, Civil Engineering Computer Science and Engineering, Electronics and Telecommunication Engineering.

Table No.: 1.1 Details for Mechanical Engineering

SN	Type	SE	TE	BE
1	Core	**SEM-I** 1.Analysis of Mechanical Elements 2.Applied Thermodynamics 3.Machine Tools and Processes 4.Machine Drawing **SEM-II** 1.Theory of Machine – I 2.ManufacturingProcesses 3.Fluid	**SEM-I** 1.Theory of Machine –II 2.Heat and Mass Transfer 3.Metallurgy 4.Machine Design – I **SEM-II** 1.Metrology and Mechanical Measurements 2.Internal Combustion	**SEM-I** 1. Refrigeration and Air Conditioning

		Mechanics	Engine 3.CAD/CAM 4.Machine Design – II	
2	Self-study	---	**SEM-I** 1.HSS-I **SEM-II** 1.HSS-II	---
3	Humanity	---	---	**SEM I** 1.Operations Research **SEM-II** 1.Industrial and Quality Management 2.Industrial Engineering 3.Production and Operation Management
4	Allied	**SEM I** 1.Computer Programming in C++ Engineering **SEM II** 1.Electrical and Electronics Technology 2.Computer Aided Machine Drawing	**SEM I** 1.Advanced Computer Programming-I **SEM II** 1.Advanced Computing Techniques-II	**SEM I** 1Automatic Control Engineering **SEM I** 1.Mechatronics 2.Computational Fluid Dynamics 3.Software Engineering & cyber security
5	Elective	---	**SEM I** 1.Machine Tool Design 2.Fluid Machinery and Fluid Power 3.Material Handling Systems **SEM II** 1.Experimental Stress Analysis 2.Power Plant and Energy Engineering 3.Tool	**SEM I** 1.Finite Element Methods 2.Automobile Engineering 3.Process Engineering 4.Industrial Robotics 5.Sugar Engineering 6. Textile Engineering 7.Entrepreneurship Development

S N	Type	SE	TE	BE
			Engineering 4.Mechanical Vibration	**SEM II** 1.Agro Machine Engineering 2.Plastic Engineering 3.Economics for Engineers
6	General science	**SEM I** 1.Environmental Science 2.Mathematics-III **SEM II** 1.Numerical Methods	---	---

Table No.: 1.2 Details for civil Engineering

S N	Type	SE	TE	BE
1	Core	**SEM-I** 1) Concrete Technology 2) Surveying-I 3) Building Construction And Drawing 4)Engineering Geology SEM-II 1) Surveying-Ii 2) Building Construction And Drawing 3) Water Resources Engineering-I	**SEM-I** 1) Design Of Steel Structures 2) Geotechnical Engg.I 3) Building Planning & Design 4)Environmental Engg.I 5) Transportation Engg.-I **SEM-II** 1)Structural Mechanics-III 2) Geotechnical Engg.II 3)Transportation Engg.-II 4)Environmental Engg.II 5) Steel Structural Design & Drawing	**SEM-I** 1)Design Of Concrete Structures-I 2) Quantity Surveying And Valuation 3) Earthquake Engg. 4)Water Resources Engg.II **SEM II** 1) Design Of Concrete Structures-II 2)Construction Practices And Town Planning 3)R.C.C. Structural Design And Drawing
2	Self-Study	**SEM-I** 1.Environmental Science	**SEM-I** 1.Professional Ethics & Human Values **SEM-II**	---

			1.Planning For Sustainable Development	
3	Humanity	---	SEM I 1. Engineering Management- I **SEM-II** 1)Engineering Management- II	---

4	Allied	**SEM I**
		   1. Structural Mechanics-I
		   2. 2 Fluid Mechanics-I
		SEM II
		1.Structural Mechanics-II
		2.Fluid Mechanics-II
		3Computer Programming And Numerical Methods
			---	---

5	Elective	---	---	**SEM- I** 1.Air Pollution & Control **SEM- II** 1. Solid And Hazardous & Waste Management 2. Disaster Management
6	General Science	**SEM-II** 1.Engineering Mathematics-III	---	---

Table No.: 1.3 Details for Computer science and engineering

S N	Type	SE	TE	BE
1	Core	**SEM-I** 1. Discrete Mathematical Structures 2. Advanced C	**SEM-I** 1. Operating System Concepts 2. System Programming	**SEM-I** 1.Advanced Computer 2.ArchitecturE Distributed

		concepts	3. Computer Networks	Systems
		3. Digital Techniques	4. Design and Analysis of Algorithm	3.Modern Database Systems
		4. Computer Graphics	5. Computer Organization	**SEM II**
		SEM-II	**SEM-II**	1.Management Information System
		1. Theory of Computation	1. Compiler Construction	2.Information & Cyber Security
		2. Microprocessors	2. Unix Operating System	
		3. Data Communication	3. Mobile Computing	
		4. Data Structures	4. Database Engineering	
			5. Software Engineering	
2	Self-study	---	**SEM-I** 1 Economics 2. Psychology 3. Philosophy 4. Sociology 5. Humanities **SEM-II** 1 Computer Modeling and Simulation 2. Software licenses and practices 3. Network set up & management tools	**SEM-II** 1.Environmental Studies
3	Humanity	**SEM I** 1.Environmental Studies	---	---
4	Allied	**SEM I** 1. Digital Techniques 2. Lab - Visual Basic SEM II 1. Microprocessors 2. Data Communication	**SEM I** 1.Computer Networks	---

		3. Data Structures 4. Lab - Object Oriented Design &Programming through C++		
5	Elective	---	---	**SEM I** 1. Human Computer Interaction 2. Digital Signal Processing 3. Software Testing & Quality Assurance 4.Business Intelligence 5.Object Oriented Modeling & Design 6.Wireless Ad hoc Networks 7.Intelligent Systems Mobile Application Development **SEM II** 1.Data Warehousing & Mining 2.Image Processing 3.Information Retrieval 4.Cloud Computing 5.Storage Area Network 6.Web 2.0 & Rich Internet Application 7.Artificial Neural Network Big Data

				Analyti**cs**
6	General science	**SEM I** 1. Applied Mathematics-I **SEM II** 1. Applied Mathematics-II	---	---

Table No.: 1.4 Details for Electronics and Telecommunication

SN	Type	SE	TE	BE
1.	Core	**SEM I** 1. Electronics Circuit Analysis and Design-I. 2. Circuits and Network. **SEM II** 1. Electronics Circuit Analysis and Design-II 2. Analog Communication 3. Linear Integrated Circuits 4. Signals and Systems	**SEM I** 1. Electro Magnetic Engg. & Radiating System. 2. Principles of Digital Communication. 3. Digital Signal Processing **SEM II** 1. Radar & Microwave Engineering 2. Microcontrollers & Applications 3. Electronics Applications &System Design 4. Optical Communication 5. Mobile Communication	**SEM I** 1. Computer communication network 2. VLSI Design 3. Satellite communication 4. Coding theory **SEM II** 1. BBC 2. Multimedia communication techniques 3. Embedded systems
2.	Self-study	--------------	**SEM I** 1. Humanity and Social Science	---------------

				(HSS) **SEM II** 1. Computer Organization 2. Operating System 3. Robotics	
3.	Allied	**SEM I** 1. Digital Techniques. 2. Data Structures **SEM II** 1. Control Systems	**SEM II** 1. Software Engineering & Project Management System 2. Microprocessors	-----------------
4.	Elective	----------	-------------------	**SEM I** 1. Image processing **SEM II** 2. Pattern Recognition
5.	Humanity	**SEM I** 1. Environmental Science-I **SEM II** 2. Environmental Science	----------------------	------------------------
6.	General Science	**SEM-I** 1. Engineering Mathematics-III.		

b. Choice based credit system and range of subject options: No

c. Courses offered in modular form: No

d. Credit transfer and accumulation facility: No

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

f. Enrichment courses

Following add-on/value added courses offered to the students to augment their skills and enhance their employment opportunities.

Table No.: 1.5 Details for Enrichment courses

SN	Programme	Date	Subject	No of student
1	Spoken tutorial	24/07/2015	PHP My SQL	37
2	Spoken tutorial	30/03/2015	Ruby	39

3	Spoken tutorial	10/01/2015	Libre Office suit	123
4	TI university Program	04/03/2015	Texas Instrument	90
5	Spoken tutorial	10/09/2014	PHP My SQL	34
6	Spoken tutorial	11/09/2014	C and CPP	34
7	Spoken tutorial	27/09/2014	Libra Office	123
8	Spoken tutorial	15/11/2014	Liber Office suit Maths/Draw	123
9	Spoken tutorial	27/09/2014	Liber Office suit	105
10	Spoken tutorial	30/08/2014	Java	32
11	Spoken tutorial	30/01/2015	LeTex	50
12	TI university Program	04/03/2015	Texas Instrument	09
13	Workshop MHRD, Govt.of India)	16/06/2014 to 1/06/2014	Computer Programming	02
14	Workshop	06/09/2014	Self Workshop Using Tutorial	10
15	Workshop	13/09/2014	The Spoken Tutorial	10
16	PC Assembly	30/08/2011	PC Assembly	22
17	Akkewadi PCB Design services	11/08/2012 to 2/08/2012	Akkewadi PCB Design services	60
18	Helping Hand Publication, Nashik	05/03/2013	Helping Hand Publication, Nashik	40
19	Antenna Design Fabrication & Link Budget	14/09/2014	Antenna Design Fabrication & Link Budget	60
20	Texas Instrument Analog Maker	04/03/2015	Texas Instrument Analog Maker	200
21	ANSA	04/10/2012 to 8/10/2012	ANSA	22
22	Pro-E	26/02/2014	Pro-E	27

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

Yes. This is an exclusively self-financing professional institution for technical and management education. The college offers the following undergraduate courses.

Table No.: 1.6 Details of the courses for UG

S N	Programme Level	Name of the Programme/	Course Duration
01	Under-Graduate (UG)	Electronics and Telecommunication Engineering	4 years
		Computer Science and Engineering	

| | | Mechanical Engineering | |
| | | Civil Engineering | |

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

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

Table No.: 1.7 Details of the Programme

S N	Module	Training Institute	Academic Year	Class	No. of Student Present
1	Aptitude Training	Aptitech Pvt.Ltd,	24 June to 7 July 2015	BE	160
2	CRT Progarm	Talent Spirit Mumbai	25 to 28 Jan 2015	BE	152
3	Soft Skill Training	Raghvendra Training & consultancy, Dharwad	9 to 12 Jan 2015	FE	140
4	Aptitude Training	Single Point HR (Rishicool Pvt. Ltd)	25 to 30 June 2014	BE	75
5	Aptitude Training	Rishicool Pvt. Ltd	22 to 23 march 2014	TE	170
6	Soft Skill Training	Seed Infotech Pvt Ltd	19 Aug to 10 Sep 2013	TE, BE	430
7	Aptitude Training	Globrena Technology Pvt. Ltd	25 to 31 June 2013	TE	267
8	Soft Skill Training	Seed Infotech Pvt Ltd	21 Jan to 09 Feb 2013	FE,SE	340
9	Soft Skill Training	Seed Infotech Pvt Ltd	16 to 17 Oct 2012	BE	90
10	CRT Program	Talent Spirit Mumbai	30 Aug to 01 Sept 2014	BE	152
11	Aptitude Test Series	KEC Faculty	22 July to 30 Sept 2014	BE	259

1.2.6 Does the university provide for the flexibility of combining the conventional face-to face and distance mode of education for students to choose the courses/combination of their choice? If yes, how does the institution take advantage of such provision for the benefit of students?

No

1.3 Curriculum Enrichment

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

To integrate the academic programmes and institution's goals, the following initiatives are taken to supplement the University's curriculum:

- Additional curriculum is designed for each class so that topics of content beyond the syllabus are included and updated which are taught to the students in order to have additional knowledge related to the developments in respective subjects.
- To ensure the fulfillment of our institutional goals and academic and employability objectives, seminars/guest lecturers/workshops, etc are organized and eminent persons from industries and reputed Institutions are called for updating the current happening in the Industries to the students.
- Additional laboratory experiments along with demo models, wall charts, apart from curriculum requirement are provided in various laboratories.
- Advanced Language lab facilities are utilized to inculcate good communication skill among student.
- Extra curriculum activity hours within the class time table are provided for each class in addition to arranging group discussions, debate competitions, written/oral tests, quizzes, paper presentations etc.
- Periodic industrial visits and tours are arranged for the enrichment of student's practical knowledge.
- Students are encouraged to attend the in plant training programs offered by various industries during summer and winter vacations (industrial training/ internship).
- Also, the Institute arranges seminars, value addition programmes, workshops, career guidance programmes, symposium, tech-fests (Karmatech), entrepreneur development cell facility etc.
- Students are guided to take-up main/mini-projects in various industries so the employability objectives of the Institute can be achieved.
- Video lectures and presentations with NPTEL

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

- The Training & Placement Cell regularly interact with reputed companies to know about their expectations and demands. Accordingly the students' skills are enriched through add-on courses.
- To develop the required skills among students, feedback sessions are held through experts from employing industries during campus placement drives.
- Career guidance programmes for students by eminent academicians and industrialists are organized.
- Industrial training and projects of students in well established companies/industries.

- Counseling Services include psychological, mental or emotional, Education and Career counseling. Student counseling cell in the institution helps for guiding and assisting students throughout their study at the institute, providing appropriate assistance at each stage of the student's development, growth and progress.

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

Gender
- The college regularly organizes events on women empowerment.
- About 45% of the students and 15% of the faculty are women.
- There is a reservation for girl student in student Council.
- Final year project group consists of girls and boys in one group.
- There is a committee for restraint of sexual harassment in the institute.

Environmental Education
- Courses "Environmental Science" and "Environmental Engineering" are included as part of the curriculum.
- College has constructed an in-house "Biogas Plant Working on Kitchen Waste" to educate the students about environmental protection and enhance the green cover of the campus.
- The institution being a green campus, is improving energy efficiency, conserving resources and enhancing environmental quality by educating for sustainability, natural resources management, climate change and creating healthy living and learning environment.
- Tree Plantation is done by every guest whenever visit to campus.
- These burning topics are by and large covered in core/ audit subjects like professional ethics and human values, environmental science, organization behavior and principle of management and fundamentals of computer programming, industrial psychology and sociology, total quality management etc.

Human Rights
- Subjects related to human rights are a part of the curriculum.
- As a part of NSS the college conducts various programs on Human Rights to provide awareness among students.
- Anti ragging awareness program, Communication Act Awareness program, Voters day program, blood donation program, Community Service, etc. are organized by the institute.
- Woman grievance cell in the campus is active and no woman harassment case is registered till now.

ICT
- Institute has 10 Mbps internet facility in the campus.
- Institute has dedicated team for this computing, network and electronic data process department.
- Staff rooms are facilitated with computers and Internet.

- NPTEL and videos are provided online. Internet browsing session and e-library facilities.
- Entire campus has LAN and is enabled with Wi-Fi.

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

Moral and Ethical Values
- Everyday lectures/Practical is starts after national anthem.
- Some subjects related to moral and ethical values, professionalism and human values such as industrial management, organizational behavior are included in the curriculum.
- Students as well as faculty are trained in Pranayam and perform everyday to increase the concentration, peace and spiritual growth.
- Social service activities are organized in association with NSS unit by students for surrounding areas and local people in a view to give awareness on various social, moral, and ethical principles.
- Invited talks on Professional ethics and also address by the principal are organized.
- Further, discipline and punctuality etc are inculcated in to their minds.

Employable Life Skills
- As communication skill is necessary for employment, the institute has made compulsory English as a campus language.
- Development of communication skill of the students through group discussion, debate, Essay writing competition etc. ECA lectures are included in regular time table and training is imparted by external professionals also.
- Students are also allotted the different responsibilities in organizing various events and activities such as cultural programmes, competitions, seminars, workshops etc. In this way they improve their team building, leadership and organizational skills.

Better career options
- Various multidisciplinary, advanced technologies, industry relevant training programmes are conducted by various departments in collaboration with industries and by in house faculty members.

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

- **Current Students Feedback**:

Student's feedback at least two times during every semester. Based on the continuous evaluation from the results of the students in tests and their feedback, bridge courses are added to the curriculum for enhancement of the same.

- **Faculty Feedback**:

Faculties share their experience and give feedback at the faculty meetings in departmental level and also at the institute level general meeting. Such feedback is utilized greatly to enhance the curricular contents.

- **Employer feedback**:

Employers have to ensure that the graduates they hire will be well prepared for the workplace so that they may not have to provide additional training. Feedback from the employers is also taken to assess the capability of our students to carry out the works in the industry and based on the opinion of industry; new programmes are introduced in the curriculum to suit the increasing demands of the industry.

- **Alumni Feedback**:

Every year institute organizes Alumni Meet in which feedback is collected and is gone through with a view to enhance the various aspects. Alumni feedback has been used to review and revise the learning outcomes. Add-on courses are introduced to achieve the same.

- **Industry Feedback**:

Through the Training & Placement Cell feedback is sought from the industry. Such feedback is used to analyze the achievement of learning outcomes and creating add-on courses to enrich the curriculum. For Instance, T & P has resulted in entering into MoU with Mossil Lubicant Ltd. Mumbai.

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

- Tools for assessment and evaluation of quality of the programmes are designed and developed.
- The training and placement cell conducts aptitude tests, group discussions on their training programmes to assess the effectiveness of training.
- By monitoring or observing the qualitative changes in the attitude and behavior of the students by students counseling.
- The impact of quality enrichment programmes is assessed by analyzing the examination results and placement records.
- Feedback from stakeholders like parents, industries, university experts also used for evaluation.
- Employers, who are thoroughly satisfied with the performance of our alumni in their workplace, have been visiting our campus for hiring students every year recurrently. This is in a way an endorsement to our enrichment programs.

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the Curriculum prepared by the university?

The institute regularly contributes to the design and development of the university curriculum in the following ways: Senior faculties of our institute are the member of the various syllabus committees. They contribute to the design and development of the curriculum of the various courses.

Faculties deputed by the institution are attending the syllabus review workshops conducted by the university.

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

Yes, The College has obtained the feedback from students, alumni, parents, industry. Their suggestions are analyzed by the institution and put forth in front of university.

Alumni: Alumni moved to the industry or for the higher studies gives feedback. It is useful to improve learning outcomes.

Parent: Parent meet conducted by the college and suggestions given by the parent useful for curriculum enrichment.

Industry: Representatives of the various industries visiting to the college gives useful feedback regarding employability of students also expectations from students.

Current student feedback: Academic committee of the institute taking the feedback of the students. Difficulties expressed by the students noted and the same is duly communicated to the university.

Faculty:-Faculties of the department give feedback in feedback meeting. This feedback is also utilized in enhance the curriculum.

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

No.

CRITERION II: TEACHING - LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

2.1.1 How does the institute ensure publicity and transparency in the admission process?
Publicity:
- Admission notification for FE and direct SE admission process is published by Directorate of Technical Education (DTE), (Maharashtra state) in all leading national and regional daily newspapers and on their web site.
- Institute also advertise the available facilities by using
    - Local/regional news papers
    - Digital flex in and around city
    - Leaflets distributed to HSC students and their parents
    - Insertions in the news paper
    - Advertising at public places like ST stand and local TV channels.
- Schedule of CAP (central admission process) is displayed on notice board and conveyed to shake holders by messaging them on cell phones.
- Vacant seats of second year classes are displayed on notice board for those who are interested in branch change.

Transparency
- Transparency is maintained throughout the admission process. The admission process is strictly controlled by DTE, Maharashtra state.
- Students can fill the choice of stream and college on-line, through online registration.
- A state level, merit list is then prepared according to the intake capacity. The same is kept in the college office for public information. All admissions are strictly through state level merit in all criteria.
- The college strictly adheres to the rules and regulations regarding admissions prescribed by the state government and the Solapur University Solapur.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.
The eliglitity criteria and the process of admission for various programs of the Institute is strictly as per the rules and regulation prescribed by DTE, State government of Maharashatra and Solapur University, Solapur. The central admission process (CAP) is adopted by our institute.

Eligibility criteria:
1. Eligibility criteria for Maharashtra state candidate and outside Maharashtra state candidate for admission to first year of degree courses in engineering / technology:
- The candidate should be an Indian national and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and

Higher Secondary Education or its equivalent examination with subjects English, physics, mathematics and chemistry / biotechnology / biology / technical vocational subject.

- Secured minimum 50 % marks (minimum 45 % marks, in case of Backward class categories and persons with disability candidates belonging to Maharashtra state only) in the subjects physics, mathematics and chemistry / biotechnology / biology / technical vocational subject added together.
- Obtained a positive composite score i.e. marks obtained after adding 50% of JEE main 2015 (Paper 1) marks and 50% of normalized Standard XII (board or equivalent examination) marks in physics, chemistry and mathematics.

2. Eligibility criteria for all India (paper-I of JEE-2014 qualified) candidates
- Candidate should be an Indian national and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, physics, mathematics and chemistry/biotechnology/biology/ technical vocational subject.
- Secured minimum 50 % marks (minimum 45 % marks, in case of backward class categories and persons with disability candidates belonging to Maharashtra state only) in the subjects physics, mathematics and chemistry / biotechnology / biology / technical vocational subject added together.
- Obtained All India Rank in JEE (Main) 2014 (Paper 1) given by CBSE.

3. Eligibility criteria of candidates who have passed/passing diploma in engineering/ technology and seeking admission to first year of engineering/technology in unaided institutes:
- Diploma holders who have passed the diploma course in engineering / technology with minimum of 50% marks (45 % marks, in case of backward class categories and persons with disability candidates belonging to Maharashtra state only) and medium of instruction as English from the AICTE approved diploma institutes affiliated to MSBTE (Maharashtra State Board of Technical Education).

4. Eligiblity criteria against CAP
- Application of the candidates for the admission against CAP or Institute Level is called through publishing advertise in regional/local news papers.
- Applications are shortlisted on the basis merit.
- Admission management/IL are conformed by login to DTE website against vacant post and management seats.

Admission Procedure
- Admission notification for FE and direct SE admission process is published by Directorate of Technical Education (DTE), (Maharashtra state) in all

leading national and regional daily newspapers and on there web site with list of ARC (application Receipt Center) and schedule of admission process after the declaration of HSC results.

▪ Candidate should purchase the admission kit from any ARC and must fill the online form and confirmation is done in ARC only by submitting true copies of certificates.

▪ Provisional merit list will be displayed on web site and within two days candidate should correct the graveness if any.

▪ After that final merit list will be displayed and option round I starts on the same day or next day candidate should fill the options within 3 days and to submit online.

▪ Allotment of colleges will be displayed on website for round I. Within three days candidates must report to allocated college and confirm the admission if option is compulsory, otherwise eligible to apply for II round.

▪ Institute wise vacant seats are again displayed on website after admission of round I. Option round II process starts on the same day, candidate should fill the options within 3 days and to submit online

▪ Allotment of colleges will be displayed on website for round II. Within three days candidates must report to allocated college and confirm the admission if option is compulsory, otherwise eligible to apply for counseling round.

▪ For Counseling round candidate should attend physically where counseling round admissions are scheduled and according to vacancies of the institute he/ she can choose the institute and stream. And immediately with in 2days he/she have to report college and confirm the admission.

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

First Year Engineering admission process is governed by DTE, Maharashtra State. Institute follows rules, regulation and guidelines set up by the DTE and Solapur University Solapur. Following table gives the FE admission for CAP cutoff for round I of last two years.

Table No. 2.1 FE CAP round I allotment of KECSP

S N	Name of the program	Ace. Year 20 14-15		Ace. Year 20 15-16	
		Min	Max	Min	Max
1	BE in Civil Engg	91231 (21.728)	66087 (46.571)	95209 (19.978)	74912 (867495)
2	BE in Mech Engg	93251 (11.738)	77789 (38.298)	92215 (25.149)	81855 (35.453)
3	BE in CSE Engg	93588 (5.759)	76352 (39.430)	95743 (1090507)	95743 (1090507)
4	BE in E&TC Engg	90245 (24.01)	72418 (42.292)	97325 (11.937)	86858 (31.041)

Figures in the table are the state merit number and figures in the bracket are the composite score or all India rank merit number.

Comparison with neighboring colleges of affiliating university:
Department of Computer Science & Engineering

Table 2.2: FE CSE cutoff for last two years

S N	College Name	Computer 2014-15		Computer 2015-16	
		Min	Max	Min	Max
1	SKNSCOE, Korti	92455 (17.249)	63161 (48.451)	96538 (16.076)	57790 (51.36)
2	SVERI COE, Gopalpur	90975 (22.3662)	56177 (52.956)	97062 (13.668)	47509 (57.82)
3	SIT, Paniv	88713 (1076458)	88713 (1076458)	92602 (1052281)	92602 (1052281)
4	SMSMPIT, Akluj	89666 (1089428)	89666 (1089428)	96309 (1097601)	96309 (1097601)
5	FEBTECH, Sangola	89762 (1090734)	89762 (1090734)	96543 (1100575)	96543 (1100575)
6	BIT, Barsi	86808 (1050664)	86808 (1050664)	100924 (1167659)	100924 (1167659)
7	COE, Vairag	33172 (440683)	33172 (440683)	92090 (1046934)	92090 (1046934)
8	BMIT, Solapur	–	–	101614 (1182494)	101614 (1182494)
9	VVPIT, Solapur	92094 (1126529)	92094 (1126529)	98362 (1125493)	98362 (1125493)
10	BIGCE, Solapur	31354 (418540)	31354 (418540)	99351 (1140568)	99351 (1140568)
11	KECSP, Shelve	93588 (5.759)	76352 (39.430)	95743 (1090507)	95743 (1090507)
12	ORCHID, Solapur	91918 (19.505)	49720 (57.00)	97756 (6.3240)	41010 (62.262)
13	WIT, Solapur	48751 (57.660)	7790 (106935)	34478 (66.9986)	4854 (58147)
14	AGPIT, Solapur	59178 (731355)	59178 (731355)	99183 (1137718)	97409 (11.201)
15	NBNCOE, Solapur	93091 (13.205)	68584 (44.919)	93938 (22.428)	69335 (810736)

Department of Electronics & Telecommunication Engineering

Table 2.3: FE E&TC cutoff for last two years

S N	College Name	E&TC 2014 - 15		E&TC 2015-16	
		Min	Max	Min	Max
1	SKNSCOE, Korti	92408 (1131247)	92408 (1131247)	101600 (1182039)	101600 (1182039)
2	SVERI COE, Gopalpur	89580 (25.299)	59743 (737707)	97701 (7.583)	76917 (888093)
3	SIT, Paniv	88960 (1079416)	88960 (1079416)	65588 (772377)	65588 (772377)
4	SMSMPIT, Akluj	48234 (611006)	48234 (611006)	8298 (592717)	8298 (592717)
5	FEBTECH, Sangola	89366 (25.731)	84301 (32.536)	99776 (1147160)	99776 (1147160)
6	BIT, Barsi	73677 (892601)	73677 (892601)	83412 (954563)	83412 (954563)
7	COE, Vairag	96446 (1207688)	96446 (1207688)	–	–
8	BMIT, Solapur	–	–	76111 (879712)	76111 (879712)
9	VVPIT, Solapur	84335 (1020889)	84335 (1020889)	–	–
10	BIGCE, Solapur	95417 (1184819)	95417 (1184819)	–	–
11	KECSP, Shelve	90245 (24.016)	72418 (42.292)	97325 (11.937)	86858 (31.041)
12	ORCHID, Solapur	93206 (12.170)	66818 (814763)	93862 (22.590)	73853 (857560)
13	WIT, Solapur	38792 (64.440)	8275 (91.153)	44722 (59.733)	16072 (203027)
14	AGPIT, Solapur	98030 (1258565)	98030 (1258565)	87103 (993119)	87103 (993119)
15	NBNCOE, Solapur	98039 (1259232)	98039 (1259232)	98699 (1130347)	90955 (26.864)

Department of Mechanical Engineering

Table 2.4: FE Mech cutoff for last two years.

S N	College Name	Mech 2014-15		Mech 2015-16	
		Min	Max	Min	Max
1	SKNSCOE, Korti	93338 (10.630)	69200 (842000)	97060 (13.715)	54549 (53.308)
2	SVERI COE, Gopalpur	93592 (5.377)	29961 (71.0397)	97659 (8.2642)	45091 (59.443)
3	SIT, Paniv	97541 (1238408)	97541 (1238408)	–	–
4	SMSMPIT, Akluj	92140 (1127125)	92140 (1127125)	100092 (1152626)	69042 (44.347)
5	FEBTECH, Sangola	93212 (12.129)	75516 (40.051)	96193 (17.402)	87307 (995106)
6	BIT, Barsi	94250 (1163267)	94250 (1163267)	99084 (1136156)	99084 (1136156)
7	COE, Vairag	96268 (1203339)	96268 (1203339)	88512 (1007620)	88512 (1007620)
8	BMIT, Solapur	97710 (1244299)	97710 (1244299)	101570 (1181368)	75146 (40.308)
9	VVPIT, Solapur	92725 (15.833)	66955 (45.983)	97301 (1110529)	86096 (31.898)
10	BIGCE, Solapur	90315 (1098916)	90315 (1098916)	92591 (1052216)	92591 (1052216)
11	KECSP, Shelve	93251 (11.738)	77789 (38.298)	92215 (25.149)	81855 (35.453)
12	ORCHID, Solapur	90619 (23.151)	50232 (633158)	96848 (14.766)	56089 (52.364)
13	WIT, Solapur	72911 (41.970)	9603 (131678)	66200 (46.175)	10548 (130754)
14	AGPIT, Solapur	97745 (1245341)	97745 (1245341)	100242 (1155186)	100242 (1155186)
15	NBNCOE, Solapur	93472 (8.629)	63941 (783169)	97734 (6.886)	67860 (45.092)

Department of Civil Engineering

Table 2.5: FE Civil cutoff for last two years

S N	College Name	Civil 2014-15		Civil 2015-16	
		Min	Max	Min	Max
1	SKNSCOE, Korti	93126 (12.898)	48649 (57.721)	97402 (11.250825705)	55321 (666004)
2	SVERI COE, Gopalpur	93180 (12.39309286)	46961 (596967)	93772 (22.776)	42398 (61.282)
3	SIT, Paniv	97108 (1225220)	97108 (1225220)	102408 (1206704)	102408 (1206704)
4	SMSMPIT, Akluj	97655 (1242648)	97655 (1242648)	101834 (1188173)	101834 (1188173)
5	FEBTECH, Sangola	92137 (18.622)	44078 (60.821)	94259 (21.893)	64339 (758550)
6	BIT, Barsi	90584 (1103257)	90584 (1103257)	97783 (5.355)	80815 (36.176)
7	COE, Vairag	65428 (799748)	65428 (799748)	97406 (1112180)	97406 (1112180)
8	BMIT, Solapur	–	–	–	–
9	VVPIT, Solapur	–	–	–	–
10	BIGCE, Solapur	93855 (1156022)	93855 (1156022)	69476 (812224)	69476 (812224)
11	KECSP, Shelve	91231 (21.728)	66087 (46.571)	95209 (19.978)	74912 (867495)
12	ORCHID, Solapur	91687 (20.379)	58305 (721830)	97838 (1.218)	58048 (51.159)
13	WIT, Solapur	32613 (68.957)	8802 (120449)	92147 (25.266)	11866 (147777)
14	AGPIT, Solapur	93620 (4.259)	77447 (38.592)	98786 (1131761)	98786 (1131761)
15	NBNCOE, Solapur	91959 (19.308)	73006 (885378)	97258 (12.330)	48010 (57.496)

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

Admission process: Engineering admission process is governed by DTE, Maharashtra State. Institute follows rules, regulation and guidelines set up by the DTE and Solapur University Solapur. DTE also prescribes the eligibility criteria for admission to all engineering UG and PG programmes; the same is adhered by the institute. Institute follows the various stages and procedure adopted for the Central Admission Process (CAP). Candidates seeking admission to our institute courses are required to appear for JEE conducted by the DTE and MHRD, Government of India. DTE shall conduct central admission processes as given below.

Mechnism in the Instiute to review admission process:
- The institute completes 20% admission through management.
- 80% admissions are filled by DTE through CAP process.
- Management admissions/Insititute Level admissions are done on the basis of merit and confirmed using DTE login.
- The institute has strong admission cell with expert team member that works round the year to get the good and meritorious students through advertisement by arranging the campaign, advertising in print and electronic media, website, seminar in school and junior colleges.
- At Second year level vacant seats are displayed on notice board and applications are called from the insteseted students for branch change.
- These applications are scrutinized on merit basis. And selected students are admitted to their interested branch. And the list of these students is conveyed to DTE and Solapur University, Solapur for confirmation.

Student profile: Institute also takes efforts on admitted students by continuously monitoring the performance of every student. The performance always checked by counseling and mentoring the student, for that student history cards are prepared which is one form of student profile to collect information from students. We collect the feedback from them regarding the basic needs and kind of environment they prefer to maintain quality.

Outcome: As a result of this process, in the last five years, the college has observed a sharp rise in the admission and student's input quality. This process helps in reducing the gaps in teaching learning and increases the student's satisfaction.

Depending up on last year admissions we identified area wise admission and our faculty team conduct carrier guidance program and engineering awareness program for next coming 10+2 std students. The details of campaigning are as follows

Table No.2.6: Campaigning details for FE admissions

S N	Year of Admission	No. of College Visited	No. of students campaigned
1	2012-13	38	1149
2	2013-14	60	2758
3	2014-15	58	4375
4	2015-16	71	3063

Table No.2.7: Campaigning details for DSE admissions

S N	Year of Admission	No. of College Visited	No. of students campaigned
1	2012-13	8	2830
2	2013-14	Nil	Nil
3	2014-15	16	3562
4	2015-16	9	942

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the national commitment to diversity and inclusion. (SC/ST/OBC/Women/differently abled/economically weaker sections/ minority community /any other)

As institute is committed to rules and regulation of Government of India and State Government of Maharashtra, following reservation policies are adopted in tune with the national commitment to diversity and inclusiveness, to increase/improve access of different categories of students.

- State Government of Maharashtra declared the seat reservation as follows
  SC –13%, ST - 7%, VJNT –11%, OBC – 19%, OPEN-50%.
- 33% seats are reversed for women's.
- Reservation for differently abled students and Ex serviceman students as per the government norms.
- Online scholarship form filling and disbursement of scholarship within 10 days through bank account to maintain the transparency.
- 100% free ship (scholarship) in tuition fee for SC/ST/VJNT/SBC students.
- 50 % tution fee concession for OBC and EBC students.

- Additional 5% seats are filled under TFWS scheme in each branch on basis of merit list through which 100 % tution fee concession is applicable to students.
- Fee concession for minority, PTC(primary teacher concession)/ STC(secondary teacher concession) students.

Institute also offers following policies for economically weak students
- Earn and learn scheme.
- Hostel fee/tution fee/mess charges concession for economically weak students.
- For direct second year students Fee concession of Rs.15000 for Karmayogi polytechnic and Rs. 10000 for other polytechnic college students.
- Barrier free environment in college campus for differently abled students.
- Installment for filling the fee as per the request application of students and parents.

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

Admission for under graduate program in first year engineering of our college

Table No.2.8: Admission status

S N	BRA NCH	2015-16		2014-15		2013-14		2012-13	
		Sancti oned intake	Admi tted stude nts	Sancti oned intake	Admi tted stude nts	Sancti oned intake	Admi tted stude nts	Sancti oned intake	Admi tted stude nts
1	CIVI L	60	43	60	39	60	19	60	10
2	CSE	60	12	60	24	60	20	60	09
3	E&T C	60	18	60	24	120	28	120	09
4	MEC H	120	31	120	55	120	70	120	83
	Total	300	104	300	142	360	137	360	111

- In Mechanical Engineering program, numbers of admissions have fallen down drastically because some of the colleges of this university have doubled their intake in this particular program. Also campus recruitment of mechanical engineering program is to much less in previous 3 years.
- In Civil Engineering, Electronics and telecommunication Engineering and Computer Science and Engineering number of admissions, increased due to industry trends, market position and economic trends in national as well as international domain.
- The students mostly select the colleges based on the surrounding locality and placement trend.

Actions initiated for improvement:
- Strengthening the training and placement activities.
- Organizing awareness programmes.
- Counseling before and during admission.
- More advertisements are given in leading news papers.
- The College conducts campaigning in higher secondary schools in our catchment area.

2.2 Catering to Student Diversity

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

Institute adhers reservations for differently-abled students as percribed by the government Maharashatra and DTE in the admissions. Relaxation is provided in minimum criteria of eligibility as per DTE norms. Institute has created modern infrastructure which includes barrier free environment (Examples: Ramp ways in campus, wheel chairs, toilet block etc.). Institute is binded to provide reserved seats in transportation facility for these students. Ground floor classes and laboratories are made available for these students. Institute assigns indivisual faculty coordinator/counselor to rectify the needs of these students. Until now there are no such admissions in this institute.

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

The institution is well aware of the needs of the students. The college is the ladder which can help them climb up to the world of aspirations.

Before commencement of the programme,
- A team of teachers personally contacts the Principals of the junior colleges located in the district and requests them to arrange interaction session with their students. Through this our team assesses the student's needs in terms of knowledge and skill.
- The team gives the presentation related to the institute to the students.
- Also our team request to students and staff of junior college to visit our college to become familiar with technology.
- These students visit to various departments of our college and a team of faculties of respective departments gives the information about the infrastructure and quality of faculties available in the institute and to assess their needs.
- After admission, student parent teacher meeting is held in which awareness about engineering, expectations from the industries people, and institute plan will be discussed. Suggestion from parents and students are taken in to consideration through which we assess the student needs.

2.2.3. What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (bridge/remedial/ add-on/enrichment courses, etc.) to enable them to cope with the programme of their choice?

After mapping the gap of the newly enrolled students in their respective domain, we conduct the following bridge/remedial/add-on/enrichment courses:

- Before start of actual syllabus each and every subject teacher assesses the student knowledge by asking oral questions and discussing basic concept with them. According to requirement, bridge course of 2 to 3 hour is planned by teacher.
- To assess the bridging knowledge, assignment is given to students and assessed by respective teacher.
- For newly enrolled students (especially FE and Direct second year) department conducts bridge courses on basic science, mathematics to enable them cope up.
- Extra remedial classes are arranged for weaker students after college hours and practical repetition is given periodically.
- Counseling by senior faculty, principal and IQAC is frequently done about their studies and personal issues of students to encourage and to motivate them.
- A special psychologist (Doctor) is appointed in the institute and doctor visits one day in a week for 6 hours.
- As the students are poor in English communication, daily one hour is allocated in time table for English and it is compulsory to use English as a campus language.

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

- Institute offers equality in the policies. There is no gender discrimination in policies for all stake holders.
- The staff members and students are treated equally in religious aspects.
- Project groups of students in each department contents boys as well as girl's student.
- Practical batches also contents boys and girl students.
- Boys and Girls groups participate in culture, social, technical activity and sports.
- Boys and Girls share the common study room and canteen.
- Department wise welcome function and send off function is organized by the students.
- Women grievances redressal cell and women's development committee is activated and it functions separately for the benefit of the women employees and girl students.
- The institution never discriminates on gender and religious issues.
- All kinds of academic help are provided for the benefit of the economically and socially weaker students like book bank, earn and learn scheme, special fee concession in college fee, hostel fee and mess fee.

- Annual gathering contents poster presentation, fish pond, drama, singing mimicry, fun fare, rangoli, drawing, essay competition, intra level college sports, which enhances the leadership qualities of the students
- Blood donation camps, Swachata Abhiyan, women's day celebration, helping to Ashadi wari pilgrims, awareness of education and cleanness in rural area such programs are organized by the institute through NSS frequently. The students come forward and participate for the benefit of society
- Our campus is smoke-free and location is pollution free.
- Lot of trees are planted in and around the campus so our campus is a green and beautiful.
- Bio plant and rain water harvesting, countour bunding is implemented in our campus.

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

The institute identifies advanced learners by their performance in university examination and class tests results under the continuous evaluation scheme, interested students are indetified for paper presentation, poster presentation, and project exhibition through interaction of the teachers with students. The institute offers a number of opportunities for bright students to augment their talent and meet their learning needs.

- Faculty teaches content beyond the syllabus.
- Additional lab session are conducted after completion of regular lab sessions for interested students
- MPSC/UPSC cell is activated for preparation of civil services.
- ERD cell is activated for the enrichment of practical knowledge and its implementation.
- Soft skill and aptitude training is provided to the students for the improvement their skills
- The institute library provides a lot of journals, eBooks, text books, reference books through which the students can gain knowledge on the advanced topics.
- Book bank facility is provided to class toppers for their advanced study.
- Language is available to improve communication skill in English.
- Institute provides finical support to students for the presentation and publication of there ideas in national level and international events.

Institute awards following prizes to the students to encourage and to motivate:

Table No.2.9: Award list

S N	Name of the Award	Max. Prize Money
1	First Rank in University	1,00,000/-
2	Second Rank in University	75,000/-
3	Third Rank in University	50,000/-
4	Class Toppers First Rank (from each class per branch)	5,000/-

5	Class Toppers Second Rank (from each class per branch)	4,000/-
6	Class Toppers Third Rank (from each class per branch)	3,000/-
7	Best out going student(from each branch)	Certificate and memento

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

- Faculty members of various departments identify the academically weaker students through class test, mid-term test and university results analysis during the course or program.
- A special psychologist (Doctor) is appointed in the institute and doctor reports principal about demoralized students and these students are counseled by IQAC, doctor, senior faculty.
- If a student does not attend classes regularly; the institute tries to look into the reasons for it, in order to reduce the number of dropouts. This is done through phone calls, letters and parents meet in the college to discuss the problems.
- Special remedial classes are conducted for the slow learners.
- More practice is taken for the critical subjects or numerical based subjects.
- Institute provides the special concession in fee, earn and learn scheme, to economically weaker students, through there is Tuition Fee Waiver Scheme (TFWS), economically backward class (EBC) and scholarship for backward classes.
- We provide the barrier free environment for physically challenged students.
- Book bank facility for economically weaker students.
- Previous batch students also motivate to newly admitted students by counseling them in department level student association program.

2.3   Teaching- Learning Process

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

The institute has a well defined standard and scientific procedure to develop the academic teaching plans and followed through a well defined academic calendar. An Internal Quality Assurance Cell (IQAC) plans an academic calendar every semester and it is prepared. The activity calendar shows the start and end of each semester stating various activities to be conducted, the internal Unit Test schedule and the tentative schedule of external evaluation.

The IQAC monitor and maintain academic activity and correlate it with academic plan and well defined resources such as course files and class deliveries.

This cell is headed by Principal and HOD's are the members of this cell. This cell provides the guidelines for the preparation of course files, planning of internal tests and maintenance of attendance records. Teaching plans for each and every course are prepared by the faculty. The course objectives are defined for each course in line with the PO's. Whole syllabus is divided into six to eight units and 42 or 56 lectures as per the teaching scheme prescribed by the university. This information (mission, vision, academic calendar, course syllabus, individual course objectives, learning outcomes, teaching plans, etc.) is collectively circulated to students. Academic diaries are provided to all staff to maintain the attendance record for each theory/ laboratory course and the performance of students in tests.

Besides the university examinations, additional two internal tests are conducted to achieve the identified PO's. The schedule of such tests is published in the academic calendar. Test question papers are set based on the question banks available and after every assessment the assessed scripts are distributed to students and results are declared within one week. The test results are also communicated to the parents. Continuous assessment system is also implemented for assessment of laboratory work. The assessment is done on the basis of timely submission of laboratory sheets, understanding of the experiment through oral questions and participation in performing the experiment. Neatness of the laboratory sheet is also given weightage in the assessment. As a part of curriculum, final year students in a group of four carry out one full year project to provide the solution to a given engineering problem by applying the knowledge gained in three years of graduation studies. The assessment is based on the parameters as defined in the rubrics for evaluating project, communication skills, team work and team member is carried out.

Self-learning is promoted in the institute by generating self-learning facilities (web base learning, Multimedia, Symposiums) under various modes. Students are encouraged for self-learning by personal counseling and organizing various contests.

The institute has a mechanism for collection of feedback from alumni, parents and industry. Every year "Parent meet" is arranged to discuss on issues like teaching learning process, infrastructural facilities, performance of their wards and placement activity. The institute organizes the co-curricular events such as "Karmatech", "Robozest", guest lectures, and annual gathering in which students get an opportunity to exhibit their skills, general knowledge and attitude. The participation and achievement in these events is assessed for crosschecking the attainment of PO's. At the end of every semester, evaluation of student performance is assessed for internal marks, class test, practical work, and understanding of individual student is examined by continues assessment sheet and final internal marks are informed and given to the individual student .This evaluation reports are recorded in the academic dairy.

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

The primary aim of the IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution and to promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

The contribution of IQAC in improving teaching –learning process is:

- To approve the academic policies of the institute.
- To recommend the governing council for sanction of funds required for enhancing the academic level of the institute.
- To review the academic progress of the institute and suggest measures to improve.
- To promote and motivate R & D and consultancy work.
- Ensuring the adequacy, maintenance and functioning of the support structure and services in institution.
- Ensuring timely, efficient and progressive performance of academic activities according to the academic calendar.
- The periodicity of applying assessment tools in order to ensure the attainment of various course outcomes and programme outcomes.
- Research work sharing and networking with other institutions in India.
- Collecting feedback forms from the students so that the teaching style of the teacher can be judged and analyzed. Giving advice for improvement if necessary.
- Arrange visiting faculty as guest lecturers in thrust areas to conduct seminar, interact with academicians and people from industry to get first-hand information on the scientific trend and market need to boost the teaching quality.
- Conduct periodical discussion with all HODs for further improvement.
- To encourage and motivate students for academics, academic prizes are given to students those are rank in university exam and class toppers.

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

The learning is made student centric by providing following appropriate support structures and systems.

1. Assigning project work and taking follow up (collaborative learning)

As a part of curriculum, final year students in a group of four or five carry out one full year project to provide the solution to a given engineering problem by applying the knowledge gained in three years of graduation studies. A preliminary survey of literature is carried out to define the problem. The students are expected to prepare a synopsis indicating the feasibility of the project with available resources. The feasibility of the project is checked by faculty members. The

progress of the project is monitored throughout the year by faculty members. The assessment is based on the parameters as defined in the rubrics for evaluating project- communication skills, team work and team member rubrics, etc. Information is tabulated below.

Table No.2.10: Project work schedule

Phase	Duration	Sem.	Nature of Work	Assessment
Phase I	July-August	I	Literature survey, problem definition, feasibility of problem solving	Synopsis submission/ presentation
Phase II	September-October	I	Formulating steps to solve Identified problems. Example - Modeling/design of the component /assembly etc.	Presentation
Phase III	At The End of term I	I	Expected that 50% work must completed by the students and complete the report and presentation should be submitted.	Project work is evaluated by concerned faculty & Marks are assigned
Phase IV	December-February	II	Execution of various steps to reach for solution. Example - Simulation/manufacturing of the component/assembly etc. Project Analysis	Project diary and analysis of the project by a group of three Faculties
Phase V	March	II	Project completion, testing, report writing	Full project report, project demonstration
Final	April End	II	University viva-voce (external)	Project report evaluation and demonstration

2. Providing traditional and advanced teaching aids (interactive learning)

Classroom teaching is the traditional method and mode of teaching-learning process. But advances in technologies encourage the use of modern tools in class room teaching. All class rooms and seminars halls are equipped with either green or white boards, multimedia projectors, internet, and LCD projector. Department wise information is furnished below.

Table No.2.11: Department-wise teaching aids

Teaching Aids	Departments					
	Mech	Civil	E&TC	CSE	Basic Sciences	ERDD
Green board	17	10	10	2	3	1

White Board	1	1	1	6	-	1
Projector	1	2	2	2	1	-

In each departments demo models/charts are available which are used by teachers as teaching aids.

3. Providing individual faculty rooms (interactive learning)
Faculty rooms are equipped with modern furniture, computer and internet facility. Faculty rooms are utilized for counseling and discussion with individual student. Department wise information is tabulated below.

Table No.2.12: Department-wise faculty rooms

Number of faculty rooms available	Departments					
	Mech	Civil	E&Tc	CSE	Basic Sciences	ERDD
	9	8	9	7	-	-

4. Providing seminar halls and tutorial rooms (interactive learning)
Each department having a tutorial room and semiar hall in which group counseling, seminars and discussion with students are conducted.

Table No.2.13: Department-wise tutorial rooms and seminar hall

Number of tutorial rooms with seating capacity 20 and Seminar Hall	Departments					
	Mech	Civil	E&Tc	CSE	Basic Sciences	ERDD
	1	1	1	1	1	-

5. Providing computers with relative accessories and aggregates for web based learning (self-learning)
Each department is provided with computers and relative as detailed below:

Table No.2.14: Department-wise computing facility

Types of equipments	Departments					
	Mech	Civil	E&TC	CSE	Basic Sciences	ERDD
Computer	47	21	56	186	25	3
Printer	2	2	3	7	1	1
Projector	1	2	2	2	1	-
Scanner	1	1	1	1	1	1
Digital camera	1	1	1	1	1	-

6. Promoting students for self-learning
Self-learning is promoted in the institute by generating self-learning facilities under various modes. Students are encouraged for self-learning by personal counseling and organizing various contests.

Web-based learning:
       The institute has created central internet facility with 10 Mbps leased line and a centralized computing facility with 60 computers to promote and motivate students for self-learning.

Learning with multi-media
In institute following facilities are made available for learning with multimedia.
- Digital library facility.
- Language laboratory facility.
- Availability of video lectures in CD form /on server.
- LCD projectors for presentation.
- Audio/Video room facility.

Classroom presentations
- Allowing students to prepare and present topics from curriculum.
- Arranging presentation on non-technical topics.

Technical symposiums
- Organizing annual events like, KARMATECH, ROBOZEST, programming and quiz contests.
- Motivating students to participate in inter-college events for paper presentation and project exhibitions.

7. **Generation of self-learning/ individual learning facilities and availability of materials for learning beyond syllabus**

- For laboratory courses, the laboratory manuals are issued.
- Digital library facility is provided with NPTEL video lectures.
- Wi-Fi facility enables students to access the internet even beyond college hours.
- Central internet facility is kept open for 12 hrs a day.
- Students are motivated to write and present research papers.
- Students are encouraged to write assignment/tutorials.
- Laboratories are kept open to students to experiment on their ideas.
- Language laboratory facilities are provided beyond office hours which enable students to prepare for English communication etc.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?
- Students who are interested in research and development work are continuously motivated and encouraged to present their project/research work in different national/international project competition/seminar/ conference/workshop and publish their work in national/international journal and seminar/conference proceedings.
- Industrial training is imparted to students and prepared to carry out industrial

problems as a part of their final year project and rewarded for their performance in project, research and other relevant fields.

- Faculty members are engaged with their research work in association with potential students and they always try to share their innovative concepts in different areas of multidisciplinary engineering & technological fields with the students.
- The institution adopts innovative teaching learning method through the modern teaching aids.
- Books, journals, periodicals in central library and its use play an important role in teaching learning process.
- Along with the course teaching, teaching-learning includes: workshops, symposia, group discussions, skill acquisition, paper presentation etc.
- The lifelong learning and self-study attitude developed during graduation will help them to update themselves technically and adapt to the changes constantly occurring in their respective programmes.
- Even after completion of the course, students are being advised to appear for competitive exams like GATE and not to discontinue their study and research activities till the end.

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

Apart from traditional classroom teaching practices, the faculties are encouraged to use NPTEL videos. The campus has Wi-Fi facilities. The library has numerous volumes of new literature in the form of text books, reference books, reports, proceedings, abstracts **&** indices, encyclopedias, data books, standards (national & international) journals, audio visual resources, CDs, educational videos and thesis/reports which are updated regularly by way of adding it. Technologies and facilities available and used by the faculty:

- Computers with internet facility in all departments
- Library, NPTEL Videos
- Interactive boards, LCD projectors
- Research papers and Journals

Digital Library Facilities:

Table No.2.15: E-Subscriptions details

S N	Online Digital Journal	No. of Digital Journals
1	ASTM Digital Library	8-Journals, 1627 –Symposia Papers, 110- Manuals, Terminology Dictionary
2	J- Gate- Engineering & technology	4091- Full Text Journals

3	Elsevier Science Direct e-Journal	275 –Journals
4	Springer Mechanical Engineering Collection	49- Journals backup files from 1997-2014

NPTEL-National Program on Technical Enhanced Learning (E- Learning CD's, Magazine CD,s and DVDs, Book CD,s and DVDs):

Table No.2.16: Department-wise NPTEL cd's

S N	Department Name	No. of course CD
1	Electronics & Telecommunication Engineering	16
2	Mechanical Engineering	21
3	Computer Science & Engineering	16
4	Civil Engineering	17

Programme-wise availability of books in central library:

Table No.2.17: Program-wise available books

S N	Name of the Programme	Titles	Volumes
1	Mechanical Engineering	410	3955
2	Civil Engineering	416	2683
3	Electronics & Telecommunication Engineering	454	3435
4	Computer Science & Engineering	441	3137
5	Basic Science	175	1849
6	Others	509	1012
Total		2405	17606

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

Institute always helps its important stake holders i.e. faculties and students for updating their knowledge and skills. Institute arranges various events as listed below:

Expert lectures arranged for students:

Table No.2.18: Department-wise expert lectures

Department	Year	No. of Expert Lectures
Mechanical Engineering	2014-15	6
	2013-14	10
	2012-13	6
Electronics & Telecommunication Engineering	2014-15	1
	2013-14	7
	2012-13	7

	2014-15	-
Computer Science & Engineering	2013-14	4
	2012-13	4
	2014-15	2
Civil Engineering	2013-14	2
	2012-13	2
	2014-15	1
General Sciences	2013-14	1
	2012-13	1

Industrial visits:

Table No.2.19: Department-wise industrial visits

Department	Year	No. of Total Visits
Mechanical Engineering	2014-15	8
	2013-14	4
	2012-13	4
Electronics & Telecommunication Engineering	2014-15	1
	2013-14	2
	2012-13	0
Computer Science & Engineering	2014-15	2
	2013-14	0
	2012-13	3
Civil Engineering	2014-15	7
	2013-14	-
	2012-13	-
General Sciences	2014-15	1
	2013-14	1
	2012-13	-

Conferences /Workshops / STTP attended by faculty:

Table No.2.20: Department-wise faculty participation in conferences/workshop/STTP

Department	Year	No. of Faculty Attended
Mechanical Engineering	2014-15	7
	2013-14	8
	2012-13	3
Electronics & Telecommunication Engineering	2014-15	8
	2013-14	2

	2012-13	2
	2014-15	8
Computer Science & Engineering	2013-14	5
	2012-13	4
	2014-15	-
Civil Engineering	2013-14	4
	2012-13	1
	2014-15	1
Basic Sciences	2013-14	1
	2012-13	4

Paper Published by faculty:

Table No.2.21: Department-wise paper published

Department	Year	No. of Papers published
Mechanical Engineering	2014-15	4
	2013-14	1
	2012-13	1
Electronics & Telecommunication Engineering	2014-15	3
	2013-14	5
	2012-13	2
Computer Science & Engineering	2014-15	15
	2013-14	3
	2012-13	1
Civil Engineering	2014-15	1
	2013-14	-
	2012-13	1
Basic Sciences	2014-15	-
	2013-14	-
	2012-13	3

2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling / mentoring / academic advise) provided to students?
All the students get the academic and personal guidance from the concerned subject teacher /class teacher/ mentor. Slow learners are identified and are given special care, counseling/academic advice. Advanced learners are directed to special classes, advanced courses, and innovative projects. The training & placement department imparts soft skill/aptitude training. Students with poor communication skill are advised to work in the language laboratory after college hours. Needy students are given financial assistance.

For individual faculty, 20 students are generally allotted, who are responsible for all activities carried out by the students. The Class Coordinator

carefully monitors the regularity of attendance, participation in seminars and the performance of the students in internal tests/semester examinations. College timing for the staff is 8 am to 4 pm whereas, student timing is 8.00 am to 3.15 pm so that extra 45 min. will be given for these activities. Students who seek psychological boosting are given psychological counseling by the college faculty him/herself. To add, the college teachers really act as a true friend, philosopher and a guide for the students.

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

a) Faculty members of the institute are dedicated out of commitment to deliver their lectures in an effective manner to enrich the knowledge of the student's community. They continuously experiment to evolve innovative teaching methodologies. Some of the innovative teaching methodologies adopted are:

- Finding curriculum gap from university syllabus and bridge it in curriculum.
- Special attention on learning beyond syllabus through modern techniques.
- Power point presentations/animations/videos related to the complex concepts.
- Students are provided with platforms like seminars, project exhibitions etc. for their interpersonal skill development.
- NPTEL videos for courses from different programmes.

b) Institute always motivates the faculties to adopt and use new techniques and tools in teaching for betterment of students learning. Some of the facilities provided are,
- LCD projectors in classrooms.
- Interactive classroom facility.
- Sponsorship/ sabbatical leave for higher education.
- Licensed software packages.
- Awards for best teacher and 100% results every year.
- Central feedback system and guidance/appreciation for faculties.
- Training programs arranged for enhanced teaching-learning, leadership, faculty development.

c) The impact of such innovative practices
We cite two examples to illustrate. In the past, we used to arrange two mid-term tests. Addition of one more internal test has helped in increasing the performances of students in oral examinations. It has also culminated into improved university examination results.

Using modern tools like power-point presentations and interactive teaching groomed awareness about presentation skills. This has reflected into increased number of participation in competitions/presentations.

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

Faculties and students use the library for regular studies, projects and research. Library resources are augmented to enhance teaching-learning process through,

a) **Stack**
   - In addition to the Library, each department has its own departmental library to facilitate easy access to the faculty, students. Project and seminar reports submitted by the students are kept in departmental library and current students can refer the previous reports.

b) **Reference section** – supports teaching learning process as:
   - Most sources are subject specific,
   - Reference materials can be more reliable than websites

c) **Reprographic services**
   - If users wish to make photocopy of question papers, articles or any other study material, the reprographic service is provided.

d) **Newspaper section**
   - Besides syllabus, newspapers provide information about current happenings all over the world. This makes readers to think about social, economic and environmental issues.

e) **Magazine section**
   - Magazines from different areas helps to update information in different

f) **Digital library**
   - Library is enabled with LAN, and broadband internet facilities.
   - Users can access journal papers through digital library section for their research.

g) **Reading room**
   - Reading rooms are provided with proper seating arrangement, fans, tubes and ventilation, water facilities.
   - Reading rooms are open beyond college hours.
   - Every year books, magazines, journals are added as per the needs of staff & students.
   - Wi-Fi enabled campus wherein the students can access information from any place in college.

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

The stipulated time frame for completing the syllabus sometimes offer challenges because of the following two reasons:
   - Yes, we often lag behind the completion of syllabus within stipulated time frame due to unexpected holidays such as extra industrial visits, workshop for students, accidental death of any stake holder of the institute, etc.
   - The second main challenge we encounter to complete the syllabus within the planned time frame is with the numerical and design based courses. Faculties conduct extra classes to solve more numerical for better understanding of the design principles of respective courses.

How does the institute overcome?

The respective faculties who have missed the classes & labs during unexpected holidays will plan for classes & labs to complete the syllabus within scheduled time frame on Saturdays or after college hours. To overcome the challenges of lagging in curriculum of design related subjects, the respective faculties plan for the extra time table during Saturdays or after college hours. By conducting the extra classes, the syllabus will be completed within the prescribed time frame. In addition, at end of the semester, sometimes we convert the entire labs into classes who have finished their lab curriculum. Those extra classes will give to the respective faculties those who need extra classes to complete the syllabus within the planned syllabus frame. Hence we are overcoming the challenges to complete the entire syllabus within the prescribed time.

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

Numbers of measures are taken to evaluate the quality of teaching and learning in our institute which are listed as follows:

- The internal Quality Assurance Cell (IQAC) monitors quality of teaching. The committee members are frequently visiting during class and lab hours to check teaching activity.
- As institute is affiliated to Solapur University, Solapur, examinations are conducted by the affiliating university; their results are analyzed twice in year. Institute organizes remedial classes for poor result courses.
- Two class tests, preliminary examination, one assignment per week, are conducted at regular in the semester.
- Every semester the institute collects the student's feedback twice and higher authorities take corrective action for the betterment of teaching –learning process.
- Institute management takes academic progress review at the end of every semester to improve quality of learning.

2.4. Teachers Quality

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

Table No.2.22: Teaching faculty analysis

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Ph.D.	01	00	00	00	00	00	01

M.Phil.	00	00	00	00	00	00	00
PG	00	00	00	00	08	01	09
Regular teachers							
Ph.D.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
M.Phil.	00	00	00	00	02	00	02
PG	00	00	00	00	24	02	26
PG Appear	00	00	00	00	17	03	20
BE	00	00	00	00	14	03	17
Visiting teachers							
Ph.D.	04	00	02	00	00	00	06
BE	00	00	00	00	04	00	04
PG	00	00	01	00	02	00	03

Strategies adopted by the institute for recruitment of its human resource:
The institute has a definite recruitment policy for both teaching and non-teaching staff. Recruitment of competent and qualified staff is as per the norms of AICTE & affiliated to Solapur University, Solapur. Requirement of staff is calculated on the basis of workload in both semesters (in the academic year) and accordingly, roster is finalized in association with Solapur University, Solapur. In order to ensure quality in teaching, the institute is following an appropriate procedure in recruiting the staff. The selection procedure and rules are as follows:

Recruitment through university selection committee:
Recruitment of Principal, Professor, Associate professor, Assistant professor, librarian and physical director:
- Institute shall take a review of the existing workload in each of the subject and probable increase in the workload in the next academic year either due to the rise in students' strength or due to the introduction of new courses/subjects with prior permission of the Government and the University and submit the proposal to the university for getting approval for appointment of additional teachers in the subject, if any. The same procedure shall be followed in respect of the vacancy of an existing post caused by various reasons such as resignation, retirement, promotion, study/medical leaves, etc. by checking through institute's roster.
- After getting approval for the appointment and advertisement from the university, Institute shall publish the advertisement in two leading newspapers, one at the district level and other at the state level with stating that the qualifications required as per the norms prescribed by AICTE & Solapur University, Solapur & application should submit within 15 days
- After collection of form, forms are scrutinized by scrutiny committee and shortlisted candidates are called for interview.
- Interview panel is framed by university and this panel selects the candidates as per norms of AICTE and Solapur University, solapur considering the vacant posts and allotment of reservation by conducting technical interview and selected candidates list will be given to college through university.

- After getting list of selected candidates, candidates are informed to join college duties within 2 days and if any is not interested then chance is given to waiting candidate provided by selection committee

Recruitment by Local Staff Selection committee:
All temporary and adhoc appointments shall be based on the recommendations of the institute/local staff selection committee duly constituted by executive body/governing body from time to time. All recruitments are done considering qualification and experience as per AICTE norms. Temporary and Ad-hoc appointments are given in place of vacant position. Advertisement regarding vacant posts is given and applications are invited. These candidates are then called for interview by local selection committee which is formed by principal. After interview selected candidate list with proper document will be submitted to university for approval.

Recruitment of non-teaching staff:
It is normally done by inviting applications from eligible candidates either through paper advertisement or directly from identified candidates, screening applications by a committee and through interview by an expert committee for the screened candidates.

Strategies adopted by the institute for retention of its human resource:
Karmayogi College of Engineering provides an ideal working environment while working into campus for its staff.
- Teachers are encouraged to present research papers in national and international journals.
- The institute also organizes various study, site tours for teachers. This encourages the teachers to pursue an enriching career in academics.
- Teachers are constantly encouraged to attend international conferences and training programmes.
- Teachers are allotted subjects as per their area of specialization and preference.
- Sponsorship / study leave is provided for higher education.
- Providing motivational support for higher education.
- Providing accommodation for faculty.
- Finacial assistance is also provided for attending STTP/Conferences.

2.4.2. How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.
- Institute recruitment process is open throughout the year and whenever institute gets qualified senior faculty, it conducts interviews and appoints him/her.

- Institute has a policy towards inviting senior professors / industry experts as visiting faculty to teach new programmes and modern subjects whenever required.
- Institute appreciates for highly qualified/experienced faculties.
- Institute has subscribed for digital library, reference book, text book, national/international journal, NPTEL and Spoken Tutorial which augments and fills in the gap whenever there is scarcity of qualified senior faculty in handling a specific subject.
- In last three years, institute has invited senior professors / industry experts to teach new programmes
- The institute arranges training programmes for the faculty members in recent advanced topics and provides more faculty development programs to satisfy this requirement.
- The institute encourages the faculty members to attend the workshops, seminar and Conferences on latest topics and emerging areas.

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

a) Nomination to staff development programmes:

Staff is encouraged to participate in conference, seminars, STTP and present papers in national / international journal.

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning
1. **Handling new curriculum**
2. **Content/knowledge management**
3. **Selection, development and use of enrichment materials**
4. **Assessment**
5. **Audio Visual Aids/multimedia**
6. **OER's**
7. **Teaching learning material development, selection and use**

Handling new curriculum

Institute continuously arranges staff development programs also depute to attend such program in nearby colleges, university. Faculties are deputed to attend syllabus setting / paper setting / paper assessments.

Content/knowledge management

In the area of content / knowledge management system, our faculty members are deputed for national & international conferences/seminars / industrial visits and also attend the various training programmes which help largely to update their knowledge & skills.

Selection, development and use of enrichment materials
The college organizes seminars to enrich all practices and aspects of teaching and learning process. Faculty members receive invitations from various institutions as resource persons. They also present papers in leading national and international journals/conferences.

Assessment
Feedback from students, HOD and principal evaluation report are major tools to analyse the faculties. College regularly arranges review meetings and result analysis meetings to see academic progress of individual faculty for each semester.

Audio visual aids/multimedia
Faculty members are trained to use audio visual aids and multimedia in the classroom. Lectures are delivered using audio visual aids in classroom. All departments are provided with an interactive classroom.

Open educational resources
Notes/PPT/video lectures tools are utilized by students, staff and these can be circulated to required staff through hard copy.

Teaching learning material development, selection and use
Faculty members are given free access to internet which helps them to traverse through ocean of learning materials. The college has a well-stocked library containing both reference and text books of various subjects, e-subscription, NPTEL, video/audio lectures. Staff's are appreciated to attend STTP/workshops / paper published in national and international journal.

Details of staff development programmes arranged

Table No. 2.23: Details of staff development programmes arranged

Name of program	Resource person	Coordinator	Duration	Organized department
Paper presentation & research methodology	Prof. S.P. Patil	Prof. Mudegaonkar J. L.	19/02/13	Electronics and Telecommu nication Engineering
MATLAB introduction	Prof. Mudegaonkar J. L.	Prof. Joshi A. A.	29/09/14 to 01/10/14	Electronics and Telecommu nication Engineering

International yoga day	Mr. S. S. Mashal	Prof. Mudegaonkar J. L.	21/06/15	Electronics and Telecommunication Engineering
Quality assurance in higher education	Prof. S. N. Kulkani	Prof. Mudegaonkar J. L.	14/08/15	Electronics and Telecommunication Engineering
Latex	Spoken tutorial	Prof. Bhosale D. V.	12/07/14	Computer Science and Engineering

c) Percentage of faculty

1. Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies
2. Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

Table No. 2.24: Workshop/seminars/conferences attended by faculties

2014-15		
Name of the Department	**Faculty Participated in workshops/seminars/conferences**	**Presented papers of faculty in national / international journal**
MECH	01	01
ETC	02	02
CSE	08	15
CIVIL	02	01

Table No. 2.25: Workshop/seminars/conferences attended by faculties

2013-14		
Name of the Department	**Faculty Participated in workshops/seminars/conferences**	**Presented papers of faculty in national / international journal**
MECH	01	--
ETC	10	07
CSE	07	03
CIVIL	01	01

Table No. 2.26: Workshop/seminars/conferences attended by faculties

2012-13		
Name of the Department	**Faculty Participated in workshops/seminars/conferences**	**Presented papers of faculty in national / international journal**

MECH	--	--
ETC	06	01
CSE	09	01
CIVIL	Nil	Nil

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

- Application for research grants for major and minor projects are encouraged, recommended and forwarded at college level
- The staff members are motivated and encouraged to participate in STTP, workshop, national, international conferences/seminars.
- The institution also conducts seminars, Expert lectures for the benefit of faculties and students. To encouraging for higher education like M.E., M.Phil., Ph.D. by giving sponsorship and study leave.
- Provides isolated cabins and internet facility for enhancing knowledge of teachers.

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

- Best teacher award is given to staff in each department from student on 5th September each year. This year Prof. Bhosale G.H, Prof. Halcharikar R.R, Prof. Tiwari N.G, Prof. Mali M.V & Prof. Deshpande A.S are awarded as a best teacher.
- Mr. Mudegaonkar J. L. is appreciated by Texas Instruments and Edgate technologies for conducting Texas Instruments Anlog Maker Contest 2015.
- Mr. Shivpuje D. B. is awared as Best Zonal Coordinator of RoboZest 2015.
- Mr. Bhosale D. V. is appreciated and awared as best question on forum by Spoken Tutorial Latex Workshop 2015 conducted by IIT, Bombay.

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

Yes, evaluation of teachers by the students is done through Offline Students Feedback System twice in each semester. In the feedback from student evaluate the teachers by giving excellent, good and poor grades for following skills.

1. Punctuation: In this parameter student evaluate whether the faculty conducts practical's and lecture sessions as per the time also evaluate whether the full time is used for teaching learning activity.
2. Teaching quality: in this parameter it is supposed that student must evaluate teaching methodology, teaching of basic concepts with proper examples and applications of basic concepts.

3. Laboratory practical conduction: in this parameter it is expected that faculty must help to perform the practicals and to enhance the practical knowledge.
4. Communication skill: student evaluates communication skills of the teaching faculty needed for effective teaching learning activity.
5. Interaction with students: In this parameter students evaluate whether the faculty helps for any subject queries and guidelines for paper presentation, poster presentation, etc.

Suggestions are also taken from these students for the improvement of quality. Generally offline feedback is collected by senior faculty / HOD and it is analyzed and the suggestions are given to teaching faculty for the effectiveness of teaching learning activity.

2.5. Evaluation Process and Reforms

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

The stakeholders of the institution i.e. students and faculty members and even the parents of the students are informed about evaluation process during parents' meet, faculty meet, as well general instructions mentioned in the prospectus of the institution. The periodic instructions issued by the parent university are promptly communicated to the students. An institute evaluation process is published in the institute calendar and the tentative dates are given in it. The regulations, curricula and syllabi of all the programs offered by the institute are available on the affiliated university websites.

The faculty members read the instructions even in the classrooms and copy of the same is also displayed on the student's notice-board. Likewise they are informed at the start of the semester regarding the various tests. Students are clearly made aware of the eligibility conditions (like minimum attendance requirement, submission etc.) to appear in the final examination. They are informed the criterion of the internal Assessment. College has specially developed CAS for overall progress of students. CAS is used for internal term work assessment which is a very transparent system. So, the institution has developed an effective system for implementation of evaluation processes.

The University publishes the semester examination marks and internal marks on the University website. The department communicates results of all tests of students through letters and phone calls to the parents. The institute has developed a proper mechanism for this purpose. Regular staff meetings are also conducted concerning evaluation process.

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

As an affiliated College, our Principal, a BOS, members and HOD's attends/ participates in all the meetings conducted by the university as a member. The evaluation reforms are adopted and followed by the institute as per university

norms. The major evaluation reforms of the university that the institution has adopted are as given below:

University reforms:
1. Online system:
The university has introduced the online exam system for one subject (F.E. all branches for C programming), online application for convocation and online communication regarding university norms. This system is in practice since 2012-13.The university has started "Digital Exam Paper Delivery System (DEPDS)" from this academic year 2014-15 where all question papers are received online at all exam centers before one hour of the commencement of exam.

The answer books have OMR coding and the evaluation of Multiple Choice Questions (MCQs) is done by computer recognition. From the academic year 2014-15 University has developed software for filling internal marks online because of which paper work is reduced as well as accuracy is maintained in results. From the academic year 2014-15 university has started implementing CGPA system which has ISE-ESE exams (30-70 patterns).

Where, 30 marks are allotted for In Semester Examination (ISE) which is conducted at institute level; however 70 marks are allotted for End semester exam which is conducted by university. Student's marks in ESE will not be considered unless he/she passes in ISE.

2. LIC visit:
Every year university appoints Local Enquiry Committee (LIC) which visits the college and inspects infrastructure, laboratories, library, accounts, teaching learning process, admissions, faculty facilities, student facilities of the college

Institution Reforms:
Continuous assessment scheme:
Students are evaluated continuously by the institute using continuous assessment scheme, in this scheme internal 30 marks are distributed for attendance, unit test, prelim, practical performance and assignments.

Appreciation of students:
Students are appreciated for their participation in technical events, extracurricular activities and the benefit is given to students in terms of internal marks.

2.5.3. How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?
The evaluation reforms of the University are followed by the institution in an effective manner. New reforms such as the online examination conduction, credit system, etc are compiled by the Institute in a timely manner. Guidelines given by the University for In Semester Examinations (ISE) is immediately adopted by the

Institute. Also institution ensures effective implementation of the evaluation reforms through- Internal Tests, Prelim examinations, Assignments.

Project and seminars evaluations, Continuous assessment of lab work. Principal of college conduct meeting with exam coordinator before every semester examination regarding the smooth conduct/implementation of examination rules, general meeting of all faculty Members by Principal where every faculty members are encouraged to give their suggestion on various aspects of examination based upon inputs of previous examinations. Then the necessary guidelines are issued for smooth conducation of the subsequent examinations & the evaluations in conjunction with university norms.

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

To measure student achievement both the formative and summative evaluation approaches are adopted by the institution. By conducting verbal tests, group discussions, seminars, students' achievements are evaluated. This type of formative approach gives lot of information about student achievement after teaching a particular unit. The performance of the student gives opportunity to the teacher to know about his/her ability and skills in the concerned subject. So the teacher can take necessary steps to improve the performance of the particular student. The academic performance of a student is measured based on the periodical tests conducted by the department. Formative and summative assessment of the students is done by using following different methods developed in the institute.

Formative Assessment:
- Question and answer sessions
- Quiz
- Seminars/ presentations
- Reviews and observations in a classroom and lab
- Providing support for the activities like sports, cultural, competitions.
- Encouragement to participate in inter college competitions
- Encouragement by giving the prizes for the toppers.

Summative Assessment:
- Class tests
- Prelim exam
- Assignments
- Industrial visits
- Workshops/ seminars

Sample Examples:
- Students are appreciated by the institute for their academic excellence.
- Students are encouraged to attend the advanced technical courses related to the current industry demands.

- Students become more serious to attend regular classes as the evaluation system contains internal marks for good attendance.

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

There is complete transparency in the internal assessment. The criterion adopted is as directed by the university. All the students are familiar about the transparency in the internal assessment. Evaluation is carried out during the semester by conducting tests, seminars, group discussions, mini projects, projects etc. At the beginning of the semester, faculty members inform the students about the various components in the assessment process during the semester. After each process, the students are provided with outcome of the assessment and teacher interacts with the students. The internal assessment is made by the faculty members keeping in mind the following aspects of student's performance.

- Class test performance (weightage given to class test-1, Prelim, class test-2)
- Practical performance / continuous assessment (weightage given for behavior aspects and independent learning during practical hours)
- Internal Oral examination (weightage given to communication skills)

Criteria for Term-work

For the subject having Term-work & Theory paper (TW=25marks)

Table No. 2.27: Internal assessment scheme for 25 marks TW

Continuous Assessment Sheet of lab work (Knowledge, Participation and Timely Submission)	10 Marks
Theory & Practical Attendance	5 Marks
Unit I & II	5 Marks
Prelim Examination	5 Marks

For the subject having Term-work & No Theory paper (TW=25marks)

Table No. 2.28: Internal assessment scheme for 25 marks TW (Lab sessions)

Continuous Assessment Sheet of lab work	15 Marks
Practical Attendance	5 Marks
Internal Oral & Practical	5 Marks

Term-work Mark conversion

Attendance Mark:

Table No. 2.29: Conversion table for attendance

80 % and above	5 Marks
70 to 79	4 Marks
60 to 69	3 Marks
50 to 59	2 Marks
Below 50	1 Marks

Test marks (Unit I 25 marks + Unit II 25 marks) = 50 marks & prelim Examination).:

Table No. 2.30: Conversion table for test marks

30 and above	5 Marks
20 to 29	4 Marks
10 to 19	3 Marks
Below 10	2 Marks

In case having term-work of 50 marks above criteria should double.

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

As an affiliated college, institute is ensuring to follow the graduate attributes of statutory bodies such as All India Council for Technical Education (AICTE), National Board of Accreditation (NBA), American Board of Engineering and Technology (ABET), Washington Accords (WA) Solapur University Solapur (SUS), Department of Technical Education, Maharashtra State (DTE), Ministry of Human Resources and Development (MHRD), etc. Graduate attributes developed by Washington Accords are recognized worldwide since 2007. Hence this institute is following these graduate attributes for the development of students. POs are mapped with Graduate Attributes by considering guidelines of Washington Accord and also prescribed by NBA.

Graduates attributes specified by the college:

As PO's are in line with graduate attributes, attainment of PO's indirectly indicates the achievement of graduate attributes. The graduate attributes in-line with PO's are as follows,

Engineering Knowledge:

Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

Problem Analysis:

Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

Design/Development of Solutions:

Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

Conduct investigations of complex problems

Using research-based knowledge and research methods including design of experiments, analysis, and interpretation of data and synthesis of information to provide valid conclusions.

Modern Tool Usage:
 Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The Engineer and Society:
Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

Environment and Sustainability:
Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

Ethics:
 Apply ethical principles and commit to professional ethics and responsibilies.
 Norms of engineering practice.

Individual and Team Work:
Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

Communication:
Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

Life Long Learning:
Recognise the need for and have preparation and ability to engage in independent and life long learning in broadest contest of technological change.

Project Management and Finance:
Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team to manage projects and in multidisciplinary environments.

Attainment of Graduate Attributes:
Each department has well defined course objectives, course outcomes, Program education objectives, and Program outcomes and those are in accordance with graduate attributes. Innovative teaching methods and student centric teaching – learning approach is adopted to achieve course outcomes. Course objectives and course outcomes are mapped with Program outcomes and Program outcomes are mapped with graduate attributes. Institute has university defined curriculum which fulfills the graduate attributes attainment. In addition with this institute is

paying attention for meeting the graduate attributes by conducting Communication Improvement Program (CIP), news reading, presentation and group discussion.

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

The redressal of grievances regarding evaluation in both internal assessment and university examination is through the following process:

Internal assessment (At Institute Level):

The subject teacher evaluates the students for unit test, assignment, practical work. If there is any grivence the redressel of grivence is rectified by following procedure.

- After assessments of unit test, answer books are returned to students.
- If there is anything needs to be clarified, students can ask to respective teachers.
- If student is not satisfied then he has to approach IQAC/HOD.
- IQAC/HOD test remedial action for the justice of student.
- Then also if stakeholder having grivence he/she can approach to Principal/Grivence redressel committee.

External assessment (At University Level):

If the grievances are against the university results,

- Institution assists the students by helping them to apply for re-evaluation or re-checking.
- Within 15 days university sends the photocopy of assessed answer book to student.
- Student can claim for re-evaluation or re-checking by assessing the answer book by concerned faculty.
- Student can claim for the revaluation of marks and submit to university.
- University forms grievance redressal committee for each subject and these papers are again re assessed and results will be declared.

2.6   Student performance and Learning Outcomes

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

Yes, the institute has clearly stated learning outcomes. With the paradigm shift in the teaching-learning process which makes it more student centric and outcome based, emphasis lies on the learning outcomes. With the help of a committee consisting of the representatives of the stake holders' viz. students, faculty, alumni, management, industry, society, etc. the institute has defined the learning outcomes for the programmes offered at department level.

Student's awareness:

Each of the courses has well defined course objectives. Faculty explains the outcomes of each course and at the end of the course, a course end survey is taken

to evaluate if the set outcomes have been achieved. Along with these, Program Outcomes (POs) and Program Educational Objectives (PEO's) are made available in the curriculum, designed by the university. POs are also disseminated to the stakeholders through parents meet, alumni meet etc.

Staff's awareness:
Program Outcomes (POs) and Program Educational Objectives (PEO's) are made aware to the faculty and staff at the department and institute level meeting. They are also brought to the notice by the university by publishing them in the curriculum design of each department.

Programme Outcomes (POs) of Dept. of Electronics and Telecommunication Engineering
a) An ability to apply knowledge of mathematics, basic science and engineering.
b) an ability to design and conduct experiments, as well as to analyze and interpret data, in the areas of Digital Design, Microprocessor, Microcontroller, VLSI, Communication System and Digital Signal Processing an ability to design electronic circuits and VLSI components to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety.
c) An ability to function on multidisciplinary teams.
d) An ability to identify, formulates, and solves engineering problems.
e) An ability to understand the professional and ethical responsibility.
f) An ability to communicate effectively.
g) An ability to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
h) An ability to recognize the need for, and engage in life-long learning.
i) An ability to solve contemporary issues.
j) An ability to use the techniques, skills, and modern engineering tools necessary for Electronics and Telecommunication Engineering.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/program? Provide an analysis of the student results/achievements (Program/course wise for last four years) and explain the differences if any and patterns of achievement across the program/courses offered.
Monitoring the progress and performance of students:
- The progress and performance of the students during four years of program duration is done by class tests, midterm test, assignments, orals etc.
- University examination result analysis is done and for the students whose performance is poor remedial (extra) classes are conducted.
- Attendance of the students has more importance in continuous assessment system.
- Class visits by Principal, HOD's and senior faculties is done to assess the effectiveness of teaching learning process.

Communicating the progress and performance of students:

- Progress of students is communicated to parents by letter/SMS on monthly basis.
- A student whose performance is below average in the exam is counseled by the faculty and his result is communicated to the parents.
- Attendance of the students is also monitored and conveyed to the parents with proper instrucations.
- Performance of the students is conveyed to the parents in parents meeting which is held once a year.

Table No. 2.31: Final year passing percentage (%)

Courses	2012-2013	2013-2014	2014-2015
Mechanical Engineering	100	94.31	85.45
Electronics and Telecommunication Engineering	100	95.91	94.44
Computer Science & Engineering	100	93.2	91.66
Civil Engineering	100	100	88.88

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

College adopts the various strategies to facilitate the achievement of the intended learning outcomes, these strategies includes:

Teaching Strategies:
- Faculty members are requested to prepare the course file before the commencement of each semester which includes syllabus, lesson plan, assignments, previous year question papers and hand-written notes.
- HODs monitor the progress of syllabus by checking the course file.
- Books in the library are procured based on the teacher syllabus requirements from college and distributed to students.
- Class visit by HODs, and Principal to assess the teaching standard of faculties and suggestions for improvement if required.
- Workshops/ trainings and Faculty development programs are conducted by the institution from time to time.

Learning Strategies:
- College has adopted progressive and effective learning environment for each category student. Slow learners and advance learners are identified and given remedial classes and special assignment respectively.
- Library and computer lab working hours are scheduled keeping in mind and the time extended during semester exams to support students.

Assessment Strategies:
- Regular Unit tests, prelim tests, and semester exams results are used for result analysis, which helps in assessment of student performance.
- Library issues books (text books prescribed in the curriculum) to every student before the start of each semester. The Principal and HODs also interact with students to know their needs during academic session.
- Department also has their technical society which conducts technical events to enhance creative talent of students.
- Trainings, workshops, guest lectures, seminars and conferences are conducted by department for students.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?
The institute has taken up following initiatives for enhancement of the students in different fields.

Quality jobs:
- **Soft skill training:** We impart training to all students to improve their skills in presentation, communication, team work, attitude and leadership. The institution also provides training for all students to understand and enhance the corporate culture skills like corporate ambience, dress code, discipline, attitude and commitment.
- The institute has collaboration with experts in this area like Seed Info-tech Solutions.
- The institute also provides training by the experts to all students for Aptitude tests in verbal, logical, mathematical, analytical and general aptitude.
- Apart from soft skill and aptitude training, the institution also provides technical skill development programs to the students. The training of the software like AUTOCAD, CATIA, ANYSIS, and MATLAB etc by the experts is provided to the students.
- The institute also encourages and guides to the students to participate and perform in various projects, seminars, presentation and workshops etc.

Higher studies and research areas:
- The institute arranges informative lectures of experts in career guidance for higher education and contemporary issues.
- Every year, different departments of the institute encourage and guides to the students for GATE examination preparation. It helps to encourage students to participate and perform for the higher study education and in the field of research.

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

The institution collects monitors and ensures the achievement of learning system from:

- Internal examination marks (Class test, Mid-Term Test, Module Test)
- Viva voce mark.
- University examination mark.
- Student attendance system.
- Seminar/Projects presentation assessment.
- Laboratory work/Term work assessment.

The institution has clearly defined, set mechanism to monitor the learning outcomes which is based on Program Educational Objective's (PEOs) and Program Outcomes (PO). Each department has set the PEOs and PO. According to this, the performance of each student is evaluated by using above mentioned tools. Attendance is compulsorily taken for every lecture. The tutorials and assignments are corrected within a short duration and the marks are entered in academic diary, which acts as a ready reckoned for the academic progress of the students. Based on the participation in the class and the marks scored in the tutorials, assignments, class tests, mid-term test and module tests, the student level is judged by the staff member and appropriate action is taken.

After end of each class test and mid-term test, academic progress reports which consist of internal test results and attendance status are submitted to the academic vice-principal for further action. The above reports are analyzed and discussed in detail in the periodic meeting. The feedback about pace of the syllabus coverage, the teaching methodology employed by the faculty members, and the conduction of laboratory exercises is summarized from such reports. If any shortcomings reported are addressed by mentoring the staff then improvement action taken using following steps

- Planning additional tutorial hours if needed, or by providing special study material.
- Expert classes are arranged for slow learners to improve their performance.
- The slow learners are taken care of by the proctors in counseling cell.

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

To ensure the achievement of learning outcomes, institute focuses on planning and effective execution of teaching learning process. The academic calendar is designed in the beginning of the semester has a detailed schedule of internal tests and their analysis, student's feedback review, skill assessment, co- curricular activities and academic review. The institution has a well defined, set mechanism to monitor the learning outcomes.

- Feedback meetings of respective subject teacher are conducted with principal for monitoring the progress of students. If students are lagging

somewhere steps are taken to minimize that gap by conducting remedial classes.

- Through weekly departmental meeting academic performance is monitored by taking review of chapter test, unit test, and lab test.
- Academic performance is monitored through university result analysis, and practice sessions are conducted for tough subject after college hour.

2.6.7 Does the institution and individual teachers use assessment/evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples. Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

Yes, the institute and almost all individual teacher uses assessment/ evolution outcomes as an indicator for evaluating student's performance, achievement of learning objectives and planning. Evolution is the continuous process that is performed in every program. The schedule and process of evolution for various activities are well defined in the academic calendars and departmental meetings. The assessment of these evolutions is done twice in semester at institute level. The procedure is such that individual faculty member has to submit evolution sheet for his own course. Depending on the individual assessment sheet, departmental index is calculated and further institute assessment index is calculated. At institute level necessary corrective action are taken for further and continuous improvement in assessment index.

CRITERION III: RESEARCH CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center / s of the affiliating University or any other agency / organization?
The institution does not have recognized research center and is planning to apply for research center under Solapur University, Solapur. But institute has a research department at institute level to promote research and development activity.

3.1.2 Does the institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the research committee for the implementation and their impact.
a. Yes, the college has an Engineering Research & Development departmental committee to monitor, promote and address the issues of Research on the campus.
b. Engineering Research and development department is guided and controlled by committee and Dr. S. P. Patil our Principal is a member of this committee. The composition of the committee is listed below:

Table No. 3.1: ERDD Committee Members

S N	Name of Faculty	Position	Designation
1	Dr. Patil S. P.	Chairman	Principal
2	Mr. Kale S. A.	Coordinator	Assistant Professor, Mechanical Engg. Dept.
3	Mr. Yadav S. P.	Member	Assistant Professor, Civil Engg. Dept.
4	Ms. Patil M. B.	Member	Assistant Professor, Civil Engg. Dept.
5	Mr. Bhosale D. V.	Member	Assistant Professor, Computer Science &Engg. Dept.
6	Mr. Sawane M. S.	Member	Assistant Professor, Computer Science &Engg. Dept.
7	Mr. Kore L. J.	Member	Assistant Professor, Electronics & Telecommunication Engg.Dept.
8	Mr. Parkhe B. A.	Member	Assistant Professor, Electronics & Telecommunication Engg.Dept.
9	Mr. Yadav G. D.	Member	Assistant Professor, Mechanical Engg. Dept.
10	Mr. Pawar C. C.	Member	Assistant Professor, Mechanical Engg. Dept.
11	Mr. Deshmane A. A.	Member	Assistant Professor, Basic Sciences Dept.
12	Ms. Mulani T. T.	Member	Assistant Professor, Basic Sciences Dept.

Functions of Engineering research & Development Department Committee

▪ Inculcating a research culture among faculty and students.

- Encouraging faculty to undertake minor & major research projects from various funding agencies and to organize workshops/seminars/conference.
- Publishing Articles/Papers in reputed journals and books.
- Identification and assistance for finance from funding agencies and management.

Some recommendations of the ERDD committee are:

- Increase the number of research publications
- Obtain funds for research from different funding agencies
- Organize seminars/conferences/workshops
- Provide incentives to faculty members working on funded project and good research publications.
- Motivate students to participate in research activities and publish papers.
- Enhance the scope of interdisciplinary research.

Impact of recommendations is as follows:

- Because of encouragement and motivation from ERD cell and management, a good number of project proposals were prepared by all departments and are communicated to various funding agencies.
- Faculty publications in National/International journals and conferences have improved.
- Participation of students in seminars/conferences has also increased.
- Student and staff memberships in professional societies have increased.
- Improved interactions between different departments for inter disciplinary research.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?
- autonomy to the principal investigator: Yes
- timely availability or release of resources: Yes
- adequate infrastructure and human resource: Yes
- time-off, reduced teaching load, special leave et cetera to the teachers: Yes
- support in terms of technology and information needs: Yes
- facilitating timely auditing and submission of utilization of certificate to the funding authorities: Yes

The institution encourages students and faculty to involve in research activities. If any is sanctioned, full support to the PI is provided to implement the research scheme within the time frame. To create the zeal among students and teachers, college has sophisticated equipment, updated library facilities and latest valued research journals.

Facilities provided

- Flexible timings and reduced workload to concentrate more on research
- Cash incentives to the student and faculty to publish papers in reputed journals/ conferences.

- Financial support (TA/DA) for student/faculty to participate in project competition.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?
- College organizes national level technical event KARMATECH for the students to explore their curiosity.
- The students have published their papers in international and national journals. Some students have won prizes in various technical competitions at state and national level.
- Digital library has been setup with subscription to standard journals, video lessons by NPTEL etc.

Table No. 3.2: Publications by Faculty and students

Academic Year	2012-13	2013-14	2014-15
Total Number of Publications by Faculty	04	15	53
Total Number of Publications by Students	00	01	11

3.1.5 Give details of faculty involvement in active research (Guiding student research, leading research projects, engaged in individual/collaborative research activity, etc.)
Guiding Student research
Members of faculty are actively involved in guiding student projects. The papers are published jointly by the students and faculty members of various departments in national & international conferences/ seminars and journals.

Leading Research Projects
Some faculties from every department have submitted a research proposal as principal investigator and co-investigator to national funding agency for grants which are awaited.

Engaged in individual/collaborative research activity
The faculty members are actively involved in pursuing research work and publishing their findings in journals. Some faculties are engaged in active research.

Table No. 3.3: Project Applied for Funding through Micro Nano Theme Meeting

S N	Title of Project	Applied for through	Funding Agency	Cost of Project	Cluster Institutes
1	Design and development of solar powered	Micro Nano Theme Meeting,	BRNS	2409500/- In rupees	SPPP KEC, NSCEMP, SVERI COE,

	hot air blower dryer for peanuts, corn and jowar	SVERI'S COE, Pandharpur & BARC, Mumbai			SPPP KPC, SKNCOE

The list of faculty members who guide Ph.D. scholars is given below.

Table No. 3.4: Ph.D. Guide

S N	Department	Name of Faculty	No. of scholars
1	E&TC	Dr. Patil S. P.	02 completed & 02 ongoing

Faculty Registered for Ph. D. Program

Karmayogi Engineering College encourages its faculty to do research. After inception of the college in 2009, 03 members are pursuing their Doctoral research in different disciplines at reputed universities and 02 members are pursuing M. Phil. at reputed universities also 26 faculties completed ME/MTech and 20 faculty are pursuing ME/MTech. The management supports the professional development of the faculty and encourages them to undertake research work by motivating them to attend seminars, workshops, international & national conferences by giving them necessary financial support and special leave. The faculty of the college has published many research papers in reputed journals. There is one research project proposal submitted in Micro Nano theme meeting organized by BARC.

Table No. 3.5: Faculty Registered for Ph. D.

S N	Name of Faculty	Department	Registered for	University	Year of registration
1	Mr. Eklarkar S. V.	MECH	Ph.D.	SRTMU, Nanded, Maharashtra	2013
2	Mr. Babar A. T.	CIVIL	Ph.D.	VTU, Belgum, Karnataka	2013
3	Mr. Deshpande A. S.	CIVIL	Ph. D.	Solapur University, Solapur	2010

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

- Our institution conducts periodic faculty development programs and organizes technical symposium and technical projects competitions evey year with focus on capacity building and inculcating research ambience.
- The institute also organizes interdisciplinary and department wise workshops, training programmes and seminar. Following programmes are conducted / organized by institution during last 3 years.

Table No. 3.6: Department wise activities organized

Civil Engineering Department

Name of the Guest Lecture/Seminar/Workshop/Event	Associate Institute/Industry	Duration	Resource Person	Target Audience
Academic Year 2012/13				
Building Process Design	Bal Kumbhar& Associates, Pandharpur	15/07/2012 to 30/09/2012	Mr. Bal Kumbhar	TE Students
Earthquake Engineering	Barsawade& Associates	15/07/2012 to 30/09/2012	Mr. K.C. Barsawade	BE Students
Academic Year 2013/14				
Quantity Surveying and Valuation	JJ Magdum COE, Jaysingpur	5/09/2013	Prof. Desai B.D.	BE Students
Structural Mechanics-II	NBN Sinhgad COE, Kegaon, Solapur	2/2/2014	Prof. M.B. Pawar	SE Students
Paper Presentation	KEC, Shelve, Pandharpur	28/02/2014	Prof. Upase S.S.	SE,TE, BE Students
Poster Presentation	KEC, Shelve, Pandharpur	01/03/2014	Prof. Upase S.S.	SE,TE, BE Students
Academic Year 2014/15				
Earthquake Engineering	KEC, Shelve, Pandharpur	8/9/2014 to 28/9/2014	Mr. K.C. Barsawade	BE Students
STAAD PRO	RobomagicTechnoligies (Inassociation with IIT, Guwahati)	04/10/2014 to 05/10/2014	Mr. Bandena waj Sheikh,	SE,TE, BE Students
Fluid Mechanics	SKN Sinhgad	15/10/2	Mr. R.S.	SE

	COE, Korti, Pandharpur	014	Chavan	Students
Model Making	KEC, Shelve, Pandharpur	6/3/2015	Prof. Upase S.S.	SE,TE, BE Students
Quiz Competition	KEC, Shelve, Pandharpur	7/3/2015	Prof. Upase S.S.	SE,TE, BE Students

Computer Science & Engineering Department

Name of the Guest Lecture/Seminar/Workshop/Event	Associate Institute/Industry	Date/Duration	Resource Person/Coordinator	Target Audience
Academic Year 2012/13				
Training Program on Aptitude	Globarena Technologies Pvt. Ltd.,Hydrabad	24/03/2012 to 26/03/2012	Mr. P Santosh Kumar	TE Students
Compiler Construction	JJ Magdum COE, Jaysingpur	16/04/2012	Ms. Patil Amita	TE Students
Formal Systems &Automata	ADCET, Ashta, Sangali	20/04/2012	Mr. Nejkar RS	SE Students
System Programming	SVERI's COE, Pandharpur	04/07/2012	Mr. Mustary N.R.	TE Students
Hack-Tricks'2013	Techfest, IIT, Bombay	15/09/2012 to 16/09/2012	Mr. Burud R.B. Mr. Beldar B.J.	SE,TE, BE Students
Visual C++	BMIT, Solapur	26/09/2012	Prof. Jagtap R.S.	BE Students
Academic Year 2013/14				
Formal Systems & Automata	SVERI's COE, Pandharpur	20/03/2013	Prof. Nanaware S.T.	SE Students
Advanced C Concept	SVERI's COE, Pandharpur	07/08/2013	Prof. Pawar S. P.	SE Students
Operating System-I	SVERI's	13/08/201	Prof. Jadhav	TE

	COE, Pandharpur	3	V.D.	Students
CRTP and CS Session	Seed Infotech, Pune	19/08/2013 to 31/082013	Mr. BhaveshAgrawal, Mr. Vishal Badak, Mr. P Santosh Kumar	SE,TE,BE Students
Academic Year 2014/15				
Theory of Compilation	SVPM's COE, Malegaon	03/04/2014	Prof. KumbharHemant	SE Students
Compiler Construction	SVERI's COE, Pandharpur	04/04/2014	Prof. Jagtap R.S.	TE Students
The Spoken Tutorial	Spoken Tutorial, IIT, Bombay	06/09/2014	Prof. D.V. Bhosale	Faculty
The Spoken Tutorial	Spoken Tutorial, IIT, Bombay	13/09/2014	Prof. D.V. Bhosale	Faculty
LATEX	Spoken Tutorial, IIT, Bombay	30/01/2015	Prof. D.V. Bhosale	Faculty
General Awareness Training Session	Syntel Privet Ltd, Mumbai	04/04/2015	Ms. Vibha Joshi	SE,TE,BE Students
PHP and My SQL	Spoken Tutorial, IIT, Bombay	27/04/2015	Prof. D.V. Bhosale	TE Students
Computer Programming	MHRD, India & IIT, Bombay	5/02/2015 to 15/02/2015	Prof. D.B. Phatak	SE,TE Students
Ruby	Spoken Tutorial, IIT, Bombay	30/03/2015	Prof. D.V. Bhosale	BE Students
Libre office suite	Spoken Tutorial, IIT, Bombay	10/01/2015	Prof. D.V. Bhosale	FE Students
Analog Maker Contest 2015	EdGate Technologies Pvt. Ltd, Banglore	04/03/2015	Prof. J. L. Mudegaonkar	SE,TE,BE Students

Name of the Guest Lecture/Seminar/Workshop/Event	Associate Institute/Industry	Date/Duration	Resource Person	Target Audience
PHP and My SQL	Spoken Tutorial, IIT, Bombay	10/09/2014	Prof. D.V. Bhosale	BE Students
C & C++	Spoken Tutorial, IIT, Bombay	11/09/2014	Prof. D.V. Bhosale	BE Students
Libre Office	Spoken Tutorial, IIT, Bombay	27/09/2014	Prof. D.V. Bhosale	FE Students
Java	Spoken Tutorial, IIT, Bombay	30/08/2014	Prof. D.V. Bhosale	TE Students

Electronics& Tele-Communication Engineering Department

Name of the Guest Lecture/Seminar/Workshop/Event	Associate Institute/Industry	Date/Duration	Resource Person	Target Audience
Academic Year 2012/13				
EME	ADCET, Ashta, Sangali	17/02/2012	Dr. A.M. Mulla	TE Students
Microcontroller & Application	CursowWadia Institute of Thechnology, Pune	05/04/2012 to 07/04/2012	Prof. P.K. Gawade	TE Students
PCB Design	Akiwate PCB Design Services, Pune	11/08/2012 to 12/08/2012	Prof. J.L. Mudegaonkar	TE, BE Students, Faculty
VLSI Design	RIT, Sakhrale	23/08/2012 to 31/08/2012	Prof. R. D. Lad	BE Students
VLSI Design	RIT, Sakhrale	06/09/2012 to 28/09/2012	Prof. R. D. Lad	BE Students
EME	ADCET, Ashta, Sangali	20/09/2012	Dr. A.M. Mulla	TE Students
VLSI Design	BIGC, Solapur	21/09/2012	Prof. G.K. Sodal	BE Students
VLSI Design	ADCET, Ashta, Sangali	09/09/2012	Prof. S.S. Bidwai	BE Students
Television Repairing	Helping Hand Publication,	5/03/2013	Mr. G.R. Sahasrabu	TE, BE Student

	Nasik		dhe	s
ECAD-II	DYP COE, Kolhapur	23/03/2013 to 25/03/2013	Prof. A.N. Jadhav	SE Students
Academic Year 2013/14				
VLSI Design	ADCET, Ashta, Sangali	17/08/2013	Prof. S.S. Bidwai	BE Students
EME	KBP COE, Satara	15/09/2013	Dr. AldarDilip	TE Students
VLSI Design	ADCET, Ashta, Sangali	29/09/2013	Prof. S.S. Bidwai	BE Students
EME	ADCET, Ashta, Sangali	29/09/2013	Prof. SunitaShinde	TE Students
EME	ADCET, Ashta, Sangali	13/10/2013	Dr. A.M. Mulla	TE Students
EME	KBP COE, Satara	16/10/2013	Dr. AldarDilip	TE Students
Academic Year 2014/15				
MATLAB	KEC, Shelve, Pandharpur	29/09/2014 to 01/10/2014	Prof. A. A. Joshi	Faculty
Analog Maker Contest 2015	EdGate Technologies Pvt. Ltd, Banglore	04/03/2015	Prof. J. L. Mudegaonkar	SE,TE, BE Students
EME	ADCET, Ashta, Sangali	11/03/2015	Dr. A.M. Mulla	TE Students

Mechanical Engineering Department

Name of the Guest Lecture/Seminar/Workshop/Event	Associate Institute/Industry	Date/Duration	Resource Person	Target Audience
Academic Year 2012/13				
Manufacturing Processes	SVERI's COE, Pandharpur	04/08/2012	Mr. P. K. Parase	SE Students
Power Plant Engineering	SVERI's COE,	08/09/2012	Mr. R. R. Narkar	BE Studen

	Pandharpur			ts
Heat & Mass Transfer	SVERI's COE, Pandharpur	22/09/2012	Mr. A. G. Kawade	TE Students
Soft Skills Development	Seed Infotech, Pune	09/03/2013	Mr. RushikeshParandkar	FE, SE Students
Theory of Machines	SVERI's COE, Pandharpur	29/3/2013 to 6/04/2013	Prof. S.D. Katekar	SE Students
Industrial & Quality Management	SVERI's COE, Pandharpur	06/04/2013	Prof. B.D. Gaikwad	BE Students
Academic Year 2013/14				
Career Guidance	SVERI's COE, Pandharpur	13/08/2013	Prof. V.A. Bagale	SE,TE, BE Students
Project Work	SVERI's COE, Pandharpur	13/08/2013	Prof. S.J. Madaki	SE,TE, BE Students
Career Opportunities in Automotive Design	CAD/CAM Guru, Pune	07/02/2014	Mr. AmayKambate	BE Students
Aptitude Training	Globarena Technologies Pvt. Ltd.,Hydrabad	22/08/2013	Mr. P Santosh Kumar	TE Students
Experimental Stress Analysis	SVERI's COE, Pandharpur	28/08/2013	Mr. R. S. Autade	BE Students
Finite Element Methods	SVERI's COE, Pandharpur	29/08/2013	Mr. S. K. Gund	BE Students
Training on Soft Skills	SEED InfoTech Ltd., Pune	19/08/2013 to 10/09/2013	Ms. Anjali Sharma, Mr. JitendraDugal, Ms. Anu Dixit	TE,BE Students
Mechatronics	SVERI's COE, Pandharpur	15/02/2014	Mr. P. K. Parase	BE Students
Robo-War	JSPM COE, Pune	25/02/2014	Mr. Ajinkya M. Firme	SE,TE, BE Studen

				ts
Heat & Mass Transfer	NK Orchid COE&T, Solapur	03/04/2014 to 04/04/2014	Mr. S. S. Kale	TE Students
Academic Year 2014/15				
Engineering Mathematics II	SVERI's COE, Pandharpur	27/08/20	Mr. A. V. Malge	FE Students
Power Plant Engineering	SVERI's COE, Pandharpur	29/08/2014	Mr. M. G. Palkar	BE Students
Machine Design-I	SVERI's COE, Pandharpur	03/09/2014	Mr. J. P. Pawar	TE Students
Scope & Career in metallurgy	Research Scholar	22/09/2014	Mr. PushkarDeshpande	TE,BE Students
Mechatronics	SVERI's COE, Pandharpur	20/03/2015	Mr. P. K. Parase	BE Students
Integrated Course in Advanced CAD - CREO	Indo German Tool Room, Aurangabad	25/03/2015	Mr. Arnab Bhattacharjee	BE Students

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

Faculty members from different departments are engaged and involved in research at individual/collaborative level.

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

Table No. 3.7 Research area and expert faculty

Name of Department	Area of specialization	Name of the Faculty
Civil Engineering	Environmental	Mr. A. T. Babar
	Construction Management	Mr. S. S. Upase Mr. A. M. Sutar
	Geology	Mr. A. S. Deshpande
	Structural Engineering	Ms. M. B. Patil, Mr. G. Gaikwad, Mr. S. P. Yadav
Computer Science & Engineering	Networking & web Application	Mr. D. V. Bhosale, Mr. S. P. Bhosale
	Image Processing	Mr. M. S. Sawane
	Database Engg.	Mr. S. M. Kulkarni

	Software Engg.	Mr. Y. S. Lonkar
	Algorithm	Mr. M. V. Mali
	Cloud Computing	Mr. V.V. Panchal
Electronics And Telecommunication Engineering	Image Processing	Mr. A. A. Joshi, Mr. R. R. Halcherikar, Mr. S. S. Joshi
	Programming	Mr. M. B. Inamdar
	Embedded Systems	Mr. R. D. Lad, Mr. S. M. Lambe
	Basic & Analog Electronics	Mr. J. L. Mudegaonkar
	Microelectronics, VLSI Design, Digital Electronics	Dr. S. P. Patil
	Communication	Mr. L. J. Kore, Mr. Y. S. Ghodake
	Networking	Mr. B. A. Parkhe
Mechanical Engineering	Design	Mr. S.S. Jagtap, Mr. U. R. Karvekar, Mr. S.A. Kale, Mr. G.D. Yadav, Mr. S.S. Kale, Mr. S.M. Shinde,
	Heat Power	Mr. Mane, Mr. G.H. Bhosale
	Production	Mr. V.L. Jagtap
	CAD/CAM	Mr. S.V. Eklarkar
	Automobile	Ms. P. D.Phule

- Availability of e-journal like ASTM Digital Library, springer Mechanical Engineering Collection, J-Gate Engineering & Technology and Elsevier Science Direct e-journal which cater the need of the research. Good numbers of reference books are also available in the Institute library.

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?
- The institute organizes technical symposium, project competition, workshops, seminars, guest lecturers for students where experts from academic institute, industries are invited for delivering keynote addresses, special lectures with interaction with teacher and students. Various guest lectures and training programmes are organized by inviting experts from industry and eminent professors from different reputed institutions.
- Some of the eminent persons visited and interacted with faculties and students are listed below:

Eminent professors and industry experts visited:

- Dr. A. M. Mulla, Principal, ADCET, Ashta, Sangli.
- Dr. Dilip Aldar, KBP COE Satara.
- Mr. R. B. Burud, Executive Engineer, MSDCL, Pandharpur.
- Mr. B. J. Beldar, Sub Divisional Officer, MSDCL, Pandharpur.
- Mr. Vinay Patrale, ICWA.
- Mr. Sharad Thakare, MD, LHP, Solapur.
- Mr. Ajit Joshi, IAS, Panipat, Hariyana.
- Ms. Vibha Joshi, Senior Project Manager, Syntel Private Limited, Mumbai.
- Col. Rajendra Pawar, HR, KOEL, Pune.
- Mr. Sachidanand Kulkarni, Vice President, Persistant Ltd. Pune.
- Dr. Chavan, WCE, Sangli.
- Dr. Sunil Kore, WCE, Sangli.
- Prof. A. N. Jadhav, Vice Principal, DYP COE, Kolhapur.
- Mr. Gajendra Kulkarni, Sr. Officer, RHRDF, Pandharpur.
- Mr. Balaji Gaikwad, Officer, RHRDF, Pandharpur.
- Prof. Jagtap S R, HOD & AP EnTC Dept, RIT Sakharale, Islampur.
- Prof. Bharat Shete, AP EnTCDept, RIT Sakharale, Islampur.
- Mr. Prabhakar R. Paricharak, Advocate, Pandharpur.
- Prof. N. D. Misal, Principal, SVERI's Polytechnic, Pandharpur.
- Mr. PravinRevankar, YashdaAcadamy, Pune.
- Dr. Archana P. Thosar, Govt. COE, Aurangabad.
- Dr. S. V. Deshpande, Principal, VVPIT, Solapur

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

Institute grants leaves for the faculty for completion of research projects and Ph.D. work and for completion of PG dissertation work.

Program wise details of faculties who have availed the facility of completing PG/Ph.D. during service:

Table 3.8: Department wise Faculties

SN	Department	Faculty pursuing PG	Completed PG	Faculty pursuing Ph.D.
1	Civil Engineering	04	01	02
2	Computer science & Engineering	06	04	-
3	Electronics & Telecommunication Engineering	02	04	-
4	Mechanical Engineering	07	03	01
Total		**19**	**12**	**03**

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

Table No. 3.9: Number of faculty attended Workshops/Conferences

S N	Academic Year	2014-2015	2013-2014	2012-2013
1.	Civil Engineering	0	4	1
2.	Computer science & Engineering	8	7	9
3.	Electronics & Telecommunication Engineering	9	2	4
4.	Mechanical Engineering	7	8	3
5.	General Science	1	1	4
	Total	**25**	**22**	**21**

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

- Institute organizes project competition "Karmatech" a technical event every year, which helps to spread research findings to the society.
- Institute organized DIPEX 2014 project exhibition cum competition and invited various schools and colleges including eminent leaders from politics as well as experts from industry. It is state level event.
- Biogas Plant, BRNS proposal, many UG level projects to minimize efforts of farmer's viz. MOSSOM, B2PM, MORT, etc. are developed in the college
- Mobile auto 3 phase & Single phase equipment.
- Water level controller developed and implemented at various buildings.

3.2 Resource Mobilization for Research

Institute has a yearly budget plan for every department for recurring and nonrecurring expenses. A part of the budget is kept for mobilization of resources for research. And middle of the year it is reviewed.

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

As mentioned below, good percentage of total department budget is earmarked for research. The table given below furnishes the major heads of expenditure and actual utilization with specific allocation to equipment, consumable, training, travel and other Expenses.

Table No. 3.10 Research Budget

Academic Year	Budget Amount	Utilization Amount
2012-13	10,00,000/-	6,02,312/-
2013-14	30,00,000/-	29,08,375/-
2014-15	10,00,000/-	8,71,770/-

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

Yes, there is a provision to provide seed money to the faculty for research. Alternately, a part of research expenditures are reimbursed by the management.

Table No. 3.11: Detail of Seed Money

Academic Year	2012-13	2013-14	2014-15
Total Expenditure	425946/-	9,50,228/-	4,77,226/-

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

The research committee encourages students to take up research projects and for which limited policy based financial assistance is also provided by the Institute. A reward is offered to the students for their publications. Some applications oriented projects are provided with 100% financial support.

Table No. 3.12: List of high end equipment's

S N	Equipment Name	Make	Purchased Year	Amount in Rupees
Civil Engineering Department				
1	Universal Testing Machine	Aditya Instruments, Ichalkaranji		531,250/-
2	SAP	National Information Center of Earthquake Engineering	15/05/2014	10,000/-
3	Triaxale Test Apparatus	Kulkarni & Company, Kolhapur	13/08/2012	2,39,373/-
4	Standard Proctor test	Kulkarni & Company, Kolhapur		
Mechanical Engineering Department				
1	ANSYS 14	In-finite Solutions, Pune	03/07/2012	1,80,000/-
2	Computerized VCR Diesel engine Test setter	Apex Innovations, Sangli	02/09/2012	3,71,250/-
3	Engine test setter	Apex Innovations, Sangli	08/08/2012	2,41,875/-
4	Exhaust Gas Emission analyzer	Apex Innovations, Sangli	08/07/2012	6,49,125/-

5	Pyrometer	Nucleus System, Sangli	01/01/2013	59,062.5/-
6	CATIA V5R-23	CSM Software, Bangalore	29/03/2014	3,18,000/-
Electronics & Telecommunication Department				
1	Xlinix ISE System Edition 13.2	Corel Technology (I), Bangalore	30/06/2012	1,95,000/-
2	Atlys Spartan			
3	Embedded Lab Equipments	SPJ Embedded Technology, Pune	21/06/2012	1,06,307/-
4	Spectrum Analyzer	Falcon Ele. Tek, Mumbai	10/09/2010	2,94,000/-
5	ISDN Trainer	Falcon Ele. Tek, Mumbai	18/08/2011	1,51,875/-
6	PCB Lab Equipments	Falcon Ele. Tek, Mumbai		2,37,938/-
7	Spectrum Analyzer	Falcon Ele. Tek, Mumbai	19/07/2010	63,000/-

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

Table No. 3.13: Inter Disciplinary Interaction

S N	Department	Title	Venue and Date
1	CSE, E&TC	Texas Instruments Competition	KEC, Shelve Pandharpur
2	All Branch	RoboZest Competition in Association with IIT, Delhi	KEC, Shelve Pandharpur
3	Civil, Mech	Biogas Plant, BRNS Proposal	KEC, Shelve Pandharpur

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?
The research committee monitors the research activities and keeps track of the usage of various resources and facilities. Workshops are conducted by focusing the application of different types of equipment for the faculty members and students. Training and demonstration also carried out using these instruments during workshop for the participants. Optimal use of various equipment and research facilities are ensured by:
1. Maintaining Log books
2. Issue and Usage registers.
3. Maintaining equipment history cards
4. Interdisciplinary use of high end equipment

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

Yes, the institute has signed MOUs with some industries and other agencies for promoting training, research and extension activities in technical education. Texas Instruments helped us develop ECAD Lab. Bio-diesel Corp. Ltd; Baramati industry provides us bio-diesel for different project as fuel.

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

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

Support provided to the faculty by institute as follows:

- Provision of seed money for the completion of project work.
- Development of necessary lab facility as per the requirement of research area.

3.3 Research Facilities

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

Computer with internet facility is provided to the faculty who are doing research. The college subscribes to both national and international journals in various fields. All departmental Laboratories, Library, Internet and other infrastructural facilities are available for each student. On demand, each student will be given a separate computer with adequate software and hardware facilities to carry over his/her project work in the campus. Qualified faculty is available to guide the students on their project work.

Labs and Library kept open beyond the scheduled time to complete their projects when student request for the same. Internet connectivity of 10 mbps speed is available for 24*7 hours with Wi-Fi support.

Each department has project lab for the student. Institute has well enriched library and digital library. The library has more than 200 video lectures under NPTEL prepared by various professors from IITs. Institute subscribes National and International e-journals.

Facilities available at the college include the following:

Various software and equipment available to carryout research are as follows:

- Android development tool- Eclipse
- SCILAB
- Ubuntu Operating system
- CATIA V5R23
- ANSYS 14.0

- SAP 14.0
- XLINIX ISE

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

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

- Encouraging faculty and students to attend research programs, workshops, seminars and conferences conducted in the Institute and at other organizations. Institute provides registration fee, conveyance, on-duty leave for attending such programs.
- Encouraging faculty members to organize research programs, workshops, seminars and conferences with funding internally from institute.
- The Engineering Research and development (ERD) committee keeps in touch with the recent trends in the research oriented programs. Institute initiates research programs and deputes faculty for such programs. Such facilities are also made available for students at UG levels.
- The library of the institute is enriched with wide range of books and various national and international journals.
- Successful completion of research programs leads to appreciation and academic career building.
- High bandwidth internet facility along with Wi-Fi connectivity is provided in the campus to the faculty and students for carrying out research work.

The infrastructure available for the under graduate students adheres to the norms issued by the affiliating University i.e. Solapur University, Solapur and DTE. The pro-active management is willing to provide research equipment as per the requirement of the new and emerging areas of research.

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

NO.

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

As such, there are no research facilities outside the campus and other laboratories, but the institute has signed MOUs with industries and other agencies for promoting training, research and extension activities in technical education.

- Institute encourages students and research scholars to visit different lab for research purpose by providing leaves and other facilities.
- Institute deputes faculty for Ph.D. at renowned institutes.
- Institute sponsors students for participating in technical competitions, exhibitions.

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

The institute has an information resource center (Library and Internet) to cater the needs of researchers. The facilities are:

- A central library and departmental libraries with well stocked books and journals suitable for research.
- E-journals and a large collection of e-books.
- High performance personal computers with high speed internet access for library users.

The information recourses available in the library are:

Titles	:	2369
Reference Books	:	7470
Back volumes	:	6982
Volumes	:	17408
Daily Newspapers	:	15
CD Titles	:	525
Print Journals	:	25
Magazines	:	05
	:	

Online Journals:

Institute library provides free access to e-journals of following online research publications to the students.

1. Science Direct
2. ASTM Digital library
3. Springer Mechanical Engineering Collection
4. J-GATE Engineering and Technology

Digital Library

Number of Computers   : 10
Broadband internet connectivity: 10 Mbps

3.3.6 What are the collaborative researches facilities developed / created by the research institute in the college? For ex. Laboratories, Library, Instruments, Computers, new technology etc.

The college has the MOUs with the different industries and foresees to have a tie up with research institutes for collaborative research in the near future.

Institute has been recognized by IIT Bombay, Mumbai as a Resource Center for Spoken-tutorial project an initiative by NMEICT, MHRD Govt. of India.

3.4 Research Publications and Awards

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

➢ **Patents obtained and filed (process and product)- NIL**

- ➢ **Original research contributing to product improvement - NIL**
- ➢ **Research studies or surveys benefiting the community or improving the services**
- ➢ **Research inputs contributing to new initiatives and social development**

Research studies or surveys benefiting the community or improving the services.

Research studies or surveys benefiting the community or improving the services and following are the publication result

Table No. 3.14: Faculty Publication

Name of Department	No. of Publications			
	International Journal	National Journal	International Conference	National Conference
Mechanical Engineering	06	-	-	01
Electronics & Telecommunication Engineering	10	-	05	11
Computer Science & Engineering	16	01	06	04
Civil Engineering	02	-	-	-
Total	**34**	**01**	**11**	**16**

Table No. 3.15: Student Publication

Name of Department	No. of Publications			
	International Journal	National Journal	International Conference	National Conference
Mechanical Engineering	01	03	01	-
Electronics &Telecommunication Engineering	03	-	-	-
Computer Science and Engineering	-	-	04	-
General Science	-	-	01	01
Total	**04**	**03**	**06**	**01**

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?
No

3.4.3 Give details of publications by the faculty and students: Publication per faculty Number of papers published by faculty and students in peer reviewed journals (national / international) Number of publications listed in International Database (for E.g.: Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)
Monographs Chapter in Books
Books Edited
Books with ISBN/ISSN numbers with details of publishers
Details of faculty publication and related issues are given below:

Dr. S P Patil authored 5 text books and 1 monogram.

Table No. 3.16: Department of Electronics and Telecommunication Engineering

Name of Faculty	No. of Publication			
	IJ	NJ	IC	NC
Dr. S. P. Patil	-	-	01	01
Mr. Mudegaonkar J. L.	-	-	01	02
Mr. Joshi A. A.	02	-	02	04
Mr. Shivpuje D. B.	03	-	-	03
Mr. Lambe S. M.	01	-	-	-
Mr. Kore L. J.	01	-	-	-
Mr. Ghodake Y. S.	03	-	01	01

Table No. 3.17: Department of Computer Science and Engineering

Name of Faculty	No. of Publication			
	IJ	NJ	IC	NC
Mr. Y. S. Lonkar	03	-	-	01
Mr. S. M. Kulkarni	01	-	--	01
Mr. D. V. Bhosale	07	-	01	-
Mr. M. V. Mali	-	-	01	-
Mr. M. S. Sawane	-	-	01	-
Mr. S. P. Bhosale	03	-	03	-
Mr. S. S. Vora	02	01	-	02

Table No. 3.18: Department of Civil Engineering

Name of Faculty	No. of Publication			
	IJ	NJ	IC	NC
Mr. A.S. Deshpande	01	-	-	-
Mr. A. M. Sutar	01	-	-	-

Table No. 3.19: Department of Mechanical Engineering

Name of Faculty	No. of Publication			
	IJ	NJ	IC	NC
Mr. S. M. Shinde	05	-	-	-

| Mr. S. S. Jagtap | - | - | - | 01 |
| Mr. G. D. Yadav | 01 | - | - | - |

Table No. 3.20: Department of General Science

Name of Faculty	No. of Publication			
	IJ	NJ	IC	NC
Mr. A. A. Deshmane	-	-	01	-
Ms. T. T. Mulani	-	-	-	01

3.4.4 Provide details (if any) of
  ➢ **Research awards received by the faculty.**
  ➢ **recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**
  ➢ **incentives given to faculty for receiving state, national and international recognitions for research contributions**

a) Prof. D. V. Bhosale won best question award and Appreciation certificate in IIT, Bombay during workshop on Latex.
b) Prof. S. A. Kale received certificate of appreciation in the State Level event "Dipex".

3.5 Consultancy

3.5.1 Give details of the system and strategies for establishing institute – industry interface?

The training and placement cell is functioning in this area. This cell is responsible for maintaining liaison with corporate houses for arranging the following

1) Summer internships
2) Campus recruitment drive – on campus, off campus , pooled campus
3) Arranging for consultancy
4) Industry visit for student and staff
5) Number of MOU's signed by institute

The placement cell assists the student in participating in job fair in Maharashtra. Placement officer liaison with the HR departments of different companies. The institute keeps in touch with alumni for placement procedure. CV's of eligible students are mailed to different companies directly through the placement cell.

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

Consultancy work is of the top priority of the institute. The institute allows consultancy work to be carried with outside industry /agencies to provide solution to industrial problem through sharing of expertise and laboratory. Expertise are advocated and publicized in the following manner.

The concerned faculty members are provided on duty leave while the consultation work is underway.

Training and placement cell explores the possibility of collaboration during their interaction with various industries.

Major areas of expertize advertised through department homepage in the main college website and also through technical event/programs like Karmatech 2013, DIPEX 2014 and Karmatech 2015.

Civil department is enagaged in consultancy assignments like third party audit, soil and block testing, etc. The concern faculties are paid incentives for the work carried out.

E&TC department under take some atomization projects.

Table No. 3.21: Internal event Participation

S N	Event	2012-13	2013-14	2014-15
		KarmaTech'13	DIPEX'14	KarmaTech'15
1	No. of internal Event Conducted	01	01	01
2	No. of paper presented internal	55	-	87
3	No. of student participated in internal Event	540	1094	865
4	No. of projects exhibited	28	418	60
5	No. of student participated in project exhibited	98	1094	200
6	No. of publications by the students in	-	01	06

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

Faculty members are always encouraged by reducing academic and administrative work load while executing consulting work with the available equipment. The college motivates the professionally qualified faculty to utilize their expertise for consultancy services with the permission of the institute. Always the labs are made available for consulting work by extending working hours. Remuneration paid to faculty enagaged in consultancy work.

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

The consultancy is provided by the college faculty only on the gradation basis and the revenue is generated is given below

Table No. 3.22: Department of Mechanical engineering

S N	Client	Project Title	Duration	Year	Project Value	Income Generated	Faculty Involved
1	Mrs. V. M. Bansod, Chairman, Panchayat Samity, Pandharpur	Inspection of Kitchen Utensils	16-05-15 To 8-6-15	2014-15	30,01,783	NA	1.Mr. S.M. Shinde 2.Mr. P.N. Bhange 3.Mr. A.A.Mali

Table No. 3.23: Department of Civil Engineering

S N	Name of work	Organization	Year	Estimated cost of work (Rs)	Proposed work (Rs)
1	Visit report on inspection of existing settling tank at village- Kem	Grampachyat of village Kem	2012-13	7000	7000/-
2	Underground sewarase Isbavi, Pandharpur	Pandharpur Nagar parishad Pandharpur	2014-15	58 Crore	
3	Constuction @ Dr. BabasahebAmbedkar Statue	Pandharpur Nagar parishad Pandharpur	2014-15	4906820	
4	BBT Road at Isbavi	Pandharpur Nagar parishad Pandharpur	2014-15	4553741	
5	BBT Road at KumbharGalli	Pandharpur Nagar parishad Pandharpur	2014-15	6920699	
6	BBT Road at Shakuntala Nagar	Pandharpur Nagar parishad Pandharpur	2014-15	6260276	1092393/-
7	BBT Road at Umanagar	Pandharpur Nagar parishad Pandharpur	2014-15	1953546	
8	BBT Road at Bhai-BhaiChowk	Pandharpur Nagar parishad Pandharpur	2014-15	6499624	

9	BBT Road in Gurudev Nagar	Pandharpur Nagar parishad Pandharpur	2014 -15	1771055	
10	BBT Road in Sangola Road	Pandharpur Nagar parishad Pandharpur	2014 -15	2336117	
11	BBT Road in Station Road	Pandharpur Nagar parishad Pandharpur	2014 -15	5058681	
12	BBT Road at MohsinVidhalayai sbavi	Pandharpur Nagar parishad Pandharpur	2014 -15	6095342	
13	BBT Road at Malape Nala Isbavi	Pandharpur Nagar parishad Pandharpur	2014 -15	6309070	
14	Construction of shopping Center at First Floor, Pandharpur	Pandharpur Nagar parishad Pandharpur	2014 -15	7479174	42004/-

Table No. 3.24: Department of Electronics and Telecommunication Engineering

S N	Name of work	Organization	Year	Estimated cost of work
1	Technical opinion about project of LED light fitting of words Vithhal rukmini mandir on Darshan Mandap.	Shri.Vithhal Rukmini Mandir Samiti, Pandharpur	2014-15	In Progress

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

The income generated through consultancy is shared with the faculty involved in the consultancy assignment. The ratio of faculty to college share is 40:60 .The generated amount is utilized for ERD projects, student industrial visit expanses and financial aid provided to students for attend conferences / events.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

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

The institution always motivates students to participate in various social activities. The various activities and social drives help to embed ethical values among the students. Students are engaged in organizing various meetings on human right,

AIDS awareness, National integration; Cleanliness drives in nearby areas of our college. The institute has a conscious roll in community connection and has initiated number of activities as below.

1. Involving students in Blood donation camps
2. Organizing Swach Bharat Abhiyan in Pandharpur involving all the students.
3. The NSS unit with strength of 100 volunteers organizes several social service and community development program.

3.6.2 What is institutional mechanism to track student's involvement in various social movements/activities which promote citizenship role?

The institute is committed to attract students for participating in various social activities by ensuring consistent encouragement and motivation. The institute has motivated the students to maintain plastic free campus by banning the use of plastic in the campus through which students imbibe to ownership and qualities of social responsibilities towards protecting nature.

1. The institute has faculty advisor scheme and students association coordinator through which the students involvement in various social activities are observed.
2. Faculty advisor records student's achievements in such activities in the respective advisor file.

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

Institute solicits both internal (governing council members, staff members, students, etc.) and external (Parents, community partners, public or private sectors) stakeholders perception on the overall performance and quality of the institute.

For internal stakeholder the goals & objectives of the institute are prominently displayed in brochure given to the students at the time of admission. The college web site provides adequate space to these goals. The external stakeholder are invited to visit the campus and visually inspects its infra-structural facilities, interact with the members of faculty to obtain necessary information on the overall performance and quality of the institute.

Parent-teacher meeting are conducted to know about academic performance and quality of their wards and to provide constructive suggestions to improve the overall performance and quality of their wards and quality of institution

Periodically performance reports are being sent to the stakeholders through e-mails, web publication and letters.

Students

1. We value the opinion and needs of our students.
2. One student of each class is nominated as representative. He/She communicates students' requirements and problems to teacher, Head of Dept/Pricipal.

3. Suggestion /Complaint Box is placed at various places on the campus which are accessible to the students.

Parents

1. Faculty/HOD/Principal interacts with guardians regularly.
2. Direct interaction of the guardians with HOD is also encouraged
3. Opinion of parents is considered with respect to various aspects such as planning of industrial visits, cultural programs etc. are valued.

Staff

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

Alumni

1. We have an established alumni Association with a professor In charge.
2. The association organizes meeting and has regular formal and informal interaction wherein any alumnus is free to give their suggestions.

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

The institute is organizing a number of outreach activities which relate to academics, social, cultural, community service, adventure etc., and all culminating in building a healthy society contributing to nation building. The institute with the help of many voluntary organizes the outreach programs. The institute has conducted several blood donation camps and tree plantations.

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

The college performs various activities through students associations and other forms of community development services. During induction, the coordinators of these sections narrate to the students on the benefits and scope of the extension activities. The information about proposed activities is disseminated on the notice board, circulars and also through oral interaction / briefing by the concerned section in charge.

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

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

1. AIDS awareness lectures.

2. Participation in AIDS day. Poster presentation, interaction with children of AIDS affected parents and conduct of competitions on topics of HIV/AIDS.
3. Annual rural camps enable the volunteers to get a feel of life in the rural areas through interaction with the local people, understanding their problems. Encouraging their children to enroll in schools.
4. Tree plantation program, clean and green programmes, creating protection of environment is taken up by the volunteers.
5. Participations of volunteers in blood donation camps.
6. Students of our institution participate actively in environment related activities of the city like creating awareness about the use of plastics.
7. Students from various departments are deputed to various industries for practical training on environmental aspects in industries.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement student's academics learning experience and specify the values and skills inculcated.
Objective:

Keeping in line with the mission of the institution to impart wholesome holistic learning to the students thereby making them responsible citizen, the extension activities conducted by institute always imbibe academic learning experience, value and skills not only in students but faculty too. These activities refresh the environment of the institute as well. The institute is an equal opportunity institution established to provide knowledge and quality education to all sections of society.

It aims to maintain modern outlook with contemporary development without compromising moral values. To provide knowledge and quality based education to the students by inculcating moral values, scientific temper and employing state of the art technologies.
It aims to pursue excellence towards creating manpower with high degree of intellectual, professional and cultural development to meet the national and global challenges.

Outcome:

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

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

1. The institution is roping in communities to actively participate in all the extension activities. This has contributes to both community- institution networking and development of institutions.
2. Extension local participations are witnessed during tree plantation, blood donation etc. the alumni association is also involved in all extension activities.
3. The institution has taken the initiative to make aware the society about social and health problems like female foeticide, dowry system, environment protection, HIV awareness, anti- tobacco and cleanliness awareness etc.
4. Time to time survey is conducted to check the feedback and improvement in society.
5. Seminars, individual discussion and group discussion are made to solve these problems.

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

The institution has constructive relationship with other organizations and institution of the locality. The blood donation camps are organized with the help of reputed hospitals.

The NSS unit co-ordinates all its activities under the norms of the university. For cluster institutes are working on one projects proposal submitted BRNS, Mumbai.

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

No.

3.7 Collaboration

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

The institution has collaborated with many industries, R&D organizations and other institutions for mutually beneficial relationships that include faculty development programmes, extra-curricular& co-curricular programmes for students; sharing of physical resources etc. The research and development cell, department associations, career guidance cell, in collaboration with professional society bodies such as ISTE, etc., organizes seminars, workshops, symposiums, and project Expo to create research interest. The following table shows the details of some of our partnerships.

Table No. 3.25: Area of collaboration and benefits

S N	Organization	Area of collaboration & benefits
1	Flash Electronics Pvt. Ltd. Pune	Placement and Vocational Industrial Training
2	KTECHBEANS SOFTWARE Pvt. Ltd.	Placement
3	Laxmi Hydraulics Pvt. Ltd. Solapur	Placement & Vocational Industrial Training
4	Nainko Exim Pvt. Ltd. Pune	Placement & Vocational Industrial Training
5	Mosil Lubricants Pvt. Ltd.	Placement

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

The institute has signed MOUs with various organizations for academic development and to enhance industry institute interaction. The list is provided below.

Table No. 3.26: MoU details

S N	Industry	Date of MOU	Address
1	Flash Electronics Pvt. Ltd. Pune	10/9/2011	Flash electronic, Chakan Pune
2	KTECHBEANS SOFTWARE Pvt. Ltd.	12/9/2014	KTECHBEANS Software, Pune
3	Laxmi Hydraulics Pvt. Ltd. Solapur	10/3/2015	LHP Pvt. Ltd. Solapur
4	Nainko Exim Pvt. Ltd. Pune	18/03/2015	Nainko Exim Pvt. Ltd. Pune
5	Mosil Lubricants Pvt. Ltd.	13/06/2015	Mosil Lubricants Pvt. Ltd. Mumbai

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

Each department has signed MOUs with industries related to their area of interest which covers in plant training to the students, faculties, sponsored projects, organizations of training program and workshop. Texas Instruments in its university program developed Analog Electronics laboratory in our institute.

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

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

Table No. 3.27: Industry Expert visit

Name of the person	Designation	Place of work	Date of visits	Purpose of visit
Mr. Sachidanand Kulkarni	VP HR	Webonise Lab Pvt. Ltd. Pune	22 Aug 2014	Inauguration of Robozest 2015.
Mr. Anirudha Kulkarni	Expert	Individual	14 Sept 2014	Conduct the workshop on Antenna Design fabrication & Link Budget.
Prof. Rawandale Shitalkumar	Dean T&P	PCCOE Pune	8 Feb 2013	Carrier Guidance Program.

A national level conference has been proposed to be held in Jan 2016.

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

a) Curriculum development/enrichment

The institute is an affiliated institution and the curriculum to be followed is prescribed by affiliating university. However the institute is actively participates in syllabus setting activity initiated by the university. The institute invites industry personals to participate and invoke industry need for curriculum setting.

b) Internship/ On-the-job training

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

c) Summer placement

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

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

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

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

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

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

h) Publication
The institute encourages publication for students and faculty members.

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

i) Student Placement
Esteemed organizations regularly visit our campus for providing students placements regularly.

j) Twinning programmes: NIL
k) Introduction of new courses: NIL
l) Student exchange: NIL

m) Any other: NIL

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

The institute has signed MOUs with different industries as listed in 3.7.2. The industry institute collaboration goes hand in hand for organizing technical workshops on advanced topics, sponsored projects, in plant training etc. Following are best practices of the institute in research, consultancy and extension to achieve best results:

1. Industrial visits have been organized with the help of various collaborating agencies.
2. The college practices the concept of teacher-led students' projects.
3. Deputation of faculty to take up advanced training in related institutions/industries.
4. The institute provides all required facilities to carryout research on a topic of his/ her choice and to have collaborations with any institutes.
5. R & D cell monitors the research activities, identifies and executes the innovative projects by UG & PG students.
6. Inviting expertise from various divisions from other industries for delivering Guest Lectures, key note address, invited speaker in workshops and symposiums.
7. The institute gives financial assistance to staff and students for publishing paper in reputed journals, participating in conferences etc. The institute gives special consideration to the staff members who publish papers in journals with high impact factors during appraisal.
8. Conducting joint technical programs and events with other organizations.
9. Planned and established linkages/collaborations related to academic and research activities for students and faculty members in various specializations.
10. Incentive to faculty at the rate of 60% of the consultancy amount.
11. Centre of research in Electrical Engineering, Mechanical Engineering and Computer Science and Engineering.
12. Library facilities are available from 8.00 am to 4.00 pm and 24 hours internet facility to carryout research work.

CRITERION IV: INFRASTUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

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

For better teaching learning process we provide good and modern infrastructure. The institute focuses on developing good infrastructure like modern classrooms, well equipped laboratories, Canteen, Transport facility, Wi-Fi campus, Library with reading rooms, Playgrounds, Power Backup, Boys & Girls hostels in campus etc.

As per AICTE, DTE & University norms the college has the required infrastructure that ensures optimal teaching & learning. If there is need for creation or enhancement of the existing infrastructure due to introduction of some new courses, guideline by LIC committee, due to changes in the curriculum or if the university demands, the college effectively fulfills these requirements.

Our Institute maintains a policy of catering to the ever changing needs of the learners and the teachers.

The Institute Policy is to provide three major types of space
1. Space for Teaching-Learning (classrooms)
2. Laboratory space
3. Administrative and office space, related amenities and circulation space.

Annual maintenance is carried out as per policy. Unrepaired equipments will be replaced by new or modern equipments as per policy.

4.1.2 Detail the facilities available for

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

The College is endowed with excellent physical infrastructural facilities, along with additional equipment to support the teaching/learning process. The College has large class rooms, laboratories with equipment in working condition. The details are given in the following table:

Table No: 4.1 Details of Curricular and Co-curricular activity

S N	Description	No's	Area in Sq. Meter	Total area in Sq. Meter
1	Classrooms	17 2 1	80 66 100	1592
2	Technology Enabled Learning Space	Every department has two LCD projectors along with moveable trolley & we provide		

			common Wi-Fi facility.	
3	Seminar halls	4	140	560
4	Tutorial spaces	4	45	220
		1	40	
5	Laboratories	1	148	3794
		9	70	
		14	80	
		15	100	
		6	66	
6	Conference Hall	1	145	145
7	Drawing Hall	1	140	140
8	Telecom facility	The college has provided facility for fast communication among the staff by using intercom.		
9	Electricity and Power Backup	The college has provided constant electricity supply by using MSEB, 100KVA generator & 60KVA UPS backup.		
10	Central Library (Book storage)	1	90	90
11	Reading Hall	1	220	
		1	285	
		1	160	
12	Departmental Libraries	In institute every department has its own library, which maintains selected copies of books (reference & text), project report & seminar report.		
13	Drinking water	The college has water purify unit with reverse osmosis		
14	Girls' Common Room	1	135	135
15	Boys' Common Room	1	106	106
16	Canteen	We have total 6 canteens from that 4 are canteens provide mess facility with delicious & healthy food.		
17	Transportation Facility	College has 12 buses &15private vehicles for transportation of student & staff. This facility is available in region with at most 40 km radius from the college.		
19	Xerox Machine	Xerox facility is available for students and staff in the College campus.		
20	Counseling Services	College has hired Dr. Sagita Patil as counselor to render services in the campus for students as well as staff.		

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

Table No: 4.2 Details of Extra Curricular activity

S N	Facility Available	Details of the facility available
1.	Sports	Institute playground sports area is 21000 sq.m. with following facilities along with flood light for night matches : ▪ Cricket ground ▪ Running track ▪ Long jump facility ▪ Football ground ▪ Basketball court ▪ Kho-kho facility ▪ Kabaddi ▪ Baseball
2.	Gymnasium	The institute has a well-equipped gym facility. The various equipments available are listed below: ▪ Twelve Station Multi-gym ▪ Seven Station Multi-gym ▪ T –Bar ▪ Calf Machine ▪ Abdominal Machine ▪ Incline Bench ▪ Incline Decline Bench ▪ Treadmill Machine ▪ Cycling Machine ▪ Dumb bells ▪ Weight Lifting & Curling Bars ▪ Weight Plates
3.	Outdoor Games	Cricket, Khokho, Basketball, Football
4.	Indoor Games	Table Tennis, Chess, Carom
5.	Auditorium	Open Air Theater with capacity of 3000 Students.
6.	NSS	National Service Scheme (NSS) is a strong unit through which Social welfare activities like blood donation. NSS Special Camps are organized throughout the year.
7.	Cultural Activities	Every year, a cultural programme named "Ruturang"is held to encourage students to participate inperforming arts. This program is very useful to bringout hidden talent of students.
8.	Public Speaking	Central Public Addressing system is available in the campus.
9.	Communication Skills Development	To make students competent in English grammar.
10.	Yoga	Pranayama session is a part of time table where Students perform pranayama for 30min/day.

11.	Health and hygiene	Two full time physicians with emergency vehicle. In every department first-aid box is available. Sufficient numbers of dustbins at proper locations are made available in department to maintain cleanliness and hygiene. Institute hired contract labors for housekeeping.
12.	Fire Extinguishers	For safety against fire, accidents adequate number of water points, sand buckets and fire extinguisher are available in the campus.

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

Since its inception in 2009, the institute has been keeping pace with the changing needs and requirements to meet its academic growth. To keep the pace with the needs and requirements, additional infrastructure is being added from time to time. In the last four years, many buildings have been constructed / renovated. The details of the facilities which have been added are as under:

Table No: 4.3 Details of Expenditure on different facilities

SN	Infrastructure	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
1	Building	42751256	69084976	8455060	6847698	9721661	-
2	Furniture & Fixture	4497520	8358826	9757623	13770828	12737537	11269633
3	Civil Lab Equipment	194630	2310008	3136362	3270246	2947906	2590349
4	Computer Lab Equipment	3332473	10792906	3626	38956	4150	21053
5	E & TC Lab Equipment	364314	2115013	5193092	5523750	-	4377408
6	Mechanical Lab Equipment	89696	333973	4715682	6771489	-	6297966
7	Canteen	121934	133954	709555	-	-	-
8	Workshop	8865221	9219270	-	-	-	-

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

- Seats are reserved in the college buses for students with physical disabilities.
- Facilities for ease of mobility such as ramps, hand railings, etc. are provided.
- The amenities such as toilets are constructed for ease of access to those students.
- Workshop & lab are provided on ground floor.

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

Hostel Facility:

The institution provides residence for outstation students. It has separate boys and girls hostel. The capacity of hostel for boys' hostel is 700 and for girls hostel is 300.Arrangement for provision of water purifiers with cooler is made in hostel building.

Table No: 4.4 Details of Hostel Facilities

Hostel	No. of Computers Available
Boys'	40
Girls'	10

Recreation facilities:

Open space in the form of ground for out-door games such as football, cricket, basketball and volleyball game are made available. For in-door recreation games carom board, chess etc. are provided by the Institute.

A prayer session is also conducted in girls' hostel daily.

A well developed gymnasium is also there in boys' hostel. Also a trainer is available over there.

Computer facility including Internet access in hostel:

The college hostels are having separate computer room. They are provided with Internet access.

Medical Facility:

The College has arrangement for students in need of medical assistance. There is a provision of first aid/medical room with all the facilities required for medical assistance.

The Institute has arranged for a daily visit of a doctor.

Table No: 4.5 Details of Visiting Doctors

Docter's name	Visiting Time	Registration No.
Dr. Salunkhe D V	7 pm -9 pm	I53060

Also, in emergency a vehicle is available and an arrangement for ambulance is made available if required.

Library:
Daily newspapers are available at hostel for students. (Sakal, Lokmat, Pudhari, Times of India, The Indian Express)

Internet:
For internet at hostel 10 Mbps lease line from BSLN is available.

Recreation facilities:
For girls, a TV is available for entertainment purpose in the hostel and also in mess. At boys hostel a provision of LCD projector is made to enjoy cricket matches or movies as per the students demand.

Residence Facility for Staff:
For bachelor faculty only, residence facility is provided in hostels on request.

Water Supply:
Water cooler with RO water purifiers ensuring constant supply of safe drinking water is available in both the boys' and girls' hostel.

Security:
Separate rectors are appointed for both the boys' and girls' hostel. Separate security is deployed at the entrance of the hostels and strict timing is adhered to by the inmates for security.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?
Regarding the provisions of health care, first-aid facility is available at boys' and girls' hostel. Also a vehicle is kept ready always at hostel for emergency. A doctor is available in campus daily. Institute has made the MoU with a hospital in Pandharpur in case of emergency. They provide ambulance whenever needed for students and staff.

4.1.7 Give details of the common facilities available on the campus
Following are the common facilities available on the campus.
1) Sick Room
2) Girls' Common Room
3) Boys' Common Room
4) Gymnasium
5) Canteen
6) Xerox Centre.
7) Safe Drinking Water Facility
8) Auditorium
9) Gents Toilet
10) Ladies Toilet
11) Vehicle Parking
12) Corridor

13) Play Ground

Different Committees:
1) IQAC (Internal Quality Assurance Cell)
2) Grievance Redressal Committee
3) Local Management Committee
4) Governing Council Committee
5) Anti-Ragging Committee
6) Sexual Harassment Prohibition Committee
7) Placement Cell
8) Counseling& Career Guidance Cell
9) Entrepreneurship Development Cell

Table No: 4.6 Location Tables of Different Cells

S N	Cell	Location (Room No.)
1	Placement Cell	B-101 Ground Floor
2	Entrepreneurship Development Cell	C-130 Ground Floor
3	Sick Room	B-103 Ground Floor
4	Girls' Common Room	A-202 First Floor
5	Boys' Common Room	A-237 First Floor
6	IQAC(Internal Quality Assurance Cell)	C-130 Ground Floor
7	Gents Toilet	C-113 And E-120 Ground Floor, First Floor
8	Ladies Toilet	B-110 And F-123 Ground Floor, First Floor
9	Library& Reading Hall	A Wing First Floor
10	Xerox Centre.	A Wing First Floor

ATM machine facility is provided by The Pandharpur Urban Co-operative Bank Limited, Pandharpur on college campus.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?
Yes, our library has an Advisory Committee. The composition of Advisory committee is as follows:

Table No: 4.7 Details of Advisory Committee of Library

S N	Name of Member	Designation
1	Dr. S P Patil	Chairman
2	Mrs. A P Palekar	Secretary Member
3	Prof. A T Babar	Member from Civil Engg Dept
4	Prof. J L	Member from Electronics and

	Mudegaonkar	Communication Engg. Dept
5	Prof. Y S Lonkar	Member from Computer Science and Engg Dept
6	Prof. R J Panchal	Member from Mechanical Engg Dept
7	Prof. N G Tiwari	Member from General Science Dept

- Significant initiatives that are implemented by the Advisory committee to render the library are as follows:
  - o Committee innovates the Vision and Mission of the library.
  - o Requirement of text books, reference books, etc. is taken from faculty members of their respective subject for every academic year and carry forwarded to advisory committee for final approval.
  - o Preparing schedule for working hours, vacation period and during examination.
  - o Endorsement for update of available and required books.
  - o Ensuring the up gradation of the library with technical development.
  - o Preparing Library rules such as:
    - Maintain Silence
    - Take care of books and Journals.
    - Underline, marking and tearing of books is strictly prohibited.
    - Mobile phones are strictly prohibited in library.
    - Switch off computer, fan and light after use.
    - Without Library borrower card books will not be issued and Library borrower card is not transferable.
    - If books has been torn or lost the borrower shall either replace the book of same edition or shall pay the cost of the book to the librarian.
    - Any student found misbehaving in the Library premises shall be liable for strict action.
  - o Endorsement of infrastructure of library for meeting the students and faculties requirements.
  - o Creating awareness about up gradations in Library to faculties and students through circulars.
  - o The committee initiates the planning, co-ordination and execution of plans for active functioning of the Library.

4.2.2 Provide details of the following:
- Total area of the Library (in Sq. Mts.) =875 sq.mtr
- Total Seating Capacity =150 students
- Working hours (on working days, on holidays, before examination days, during examination days, during vacation)
  - o Library hours on:

- Working days = From 08:00 am to 04:00 pm
- Before Examination days = From 08:00 am to 06:00 pm
- During Examination days = From 08:00 am to 05:00 pm
  - During Vacation:
    - From 08:45am to 04:00pm
  - On Holiday library remains closed
- Layout of the library (individual reading carrels, lounge area for browsing And relaxed reading, IT zone for accessing e-resources)

Figure No. 4.1 Library and Reading Hall Layout
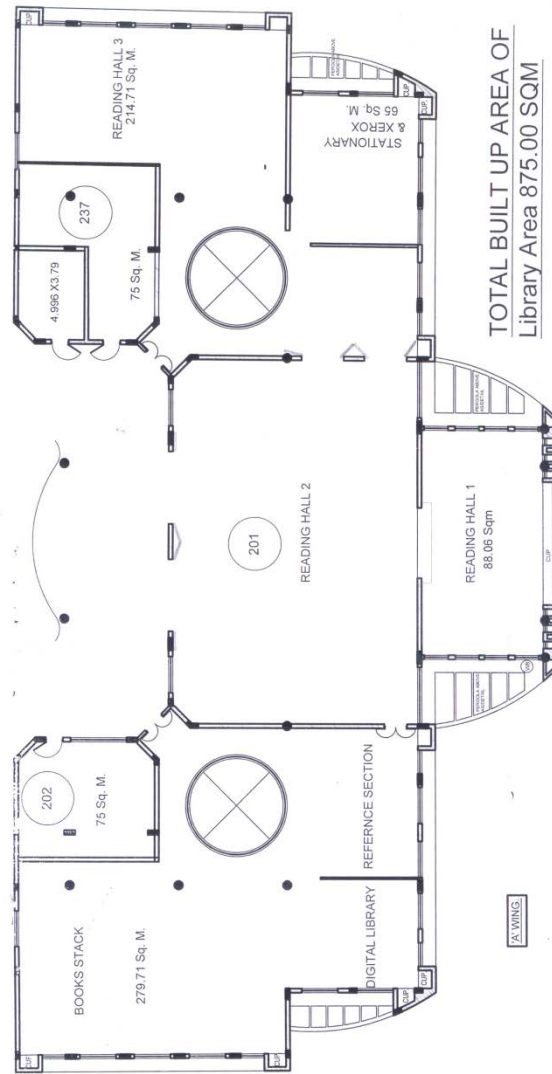
4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Over and above the requirements of AICTE, departments raise the indent of books and journals as per the requirements of the respective programs and courses. These are placed for discussion in the library Advisory committee who review the requirement and recommend the same to the Principal for adoption. The Principal, Chairman of committee take the necessary action for procurement, taking into account the budgetary and other provisions.

Reference books are also available in the library along with newspapers.

The amount spent on procuring new books, journals and e-resources during the last four years is as given below:

Table No: 4.8 Details of residential facilities and various provisions Amount in Lacs

Library Holding	Year 2011-12		Year 2012-13		Year 2013-14		Year 2014-15	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total cost
Text books	1970	5.99	1882	6.61	539	2.22	709	2.56
Reference books	897	2.86	369	1.51	130	0.51	142	0.49
Journals/Periodicals	68	2.29	60	1.68	28	0.70	26	0.68
E-resources	-	-	-	-	-	-	-	-
Any other (Specify) 1.Competitive Exam	127	0.53	165	0.58	127	0.43	255	0.52
2.Marathi Novels	89	0.11	129	0.14	5	0.01	111	0.16
3. Recreational Magazine	195	0.30	233	0.04	138	0.02	-	-
4.Book Bank a.Textbook b. Reference book	645 11	1.68 0.05	- -	- -	- -	- -	- -	- -

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

- OPAC **No**
- Electronic Resource Management package for e-journals **No**
- Federated searching tools to search articles in multiple databases **No**
- Library Website **Work In progress**
- In-house/remote access to e-publications **Yes**
- Library automation **No**
- Total number of computers for public access **10**

- Total numbers of printers for public access **01**
- Internet band width/ speed **10 Mbps**
- Institutional Repository **No**
- Content management system for e-learning **No**
- Participation in Resource sharing Networks/consortia **No**
  (like Inflibnet)

4.2.5 Provide details on the following items:

- Average number of walk-ins **20**
- Average number of books issued/returned **32**
- Ratio of library books to students enrolled **23:1**
- Average number of books added during last three years **2100**
- Average number of login to opac (OPAC) **No**
- Average number of login to e-resources **No**
- Average number of e-resources downloaded/printed **No**
- Number of information literacy trainings organized **02**
- Details of "weeding out" of books and other materials **No**

4.2.6 Give details of the specialized services provided by the library

- Manuscripts **No**
- Reference **Yes**
- Reprography **Yes**
- ILL (Inter Library Loan Service) **Yes**
- Information deployment and notification **Yes**
  (Information Deployment and Notification)
- Download **Yes**
- Printing **Yes**
- Reading list/ Bibliography compilation **No**
- In-house/remote access to e-resources **Yes (In house access)**
- User Orientation and awareness **Yes**
- Assistance in searching Databases **Yes**
- INFLIBNET/IUC facilities **No**

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

Library staff provides support to the students and teachers of the college in various ways:
- Books and Journals searching
- Self-learning material such as NPTEL videos, IISc, IITs, NITs.
- Research material downloads.
- Any other requests coming from student or staff in written are considered and fulfilled.

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

Though currently our institute does not have Visually/Physically challenged candidate so far, however the system is in-place to meet with arrangement available.

For Visually challenged candidate, the basic software like Adobe Acrobat Reader is installed, which has the option to read the content; so that any person can listen to the content clearly of the PDF document (Library staff would help aid the visually impaired to listen the document through available head phones at their own pace).

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

Strategies in-place:

A suggestion box is kept in the library. For every semester the suggestions are collected and analyzed by the library committee. During committee meetings, every year students and faculty feedbacks are analyzed and considered for improving the library services.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (Hardware and software) at the institution.
1. No. of computers with configuration (Provide actual no. with exact configuration of each available system)
Computer Science and Engineering Department:

Table No: 4.9 Details of computing facilities of Computer Department

Configuration	Make	Quantity	Year of purchase
Model : DELL Vostro 220 CPU : Processor: Pentium (R) Dual-Core RAM: 1.00 GB HDD: 160 GB Monitor (Dell) Keyboard (Dell) Mouse (Dell)	DELL VOSTRO 220	44	29/05/2009 _____ GPR-108
Dell Vostro 230 Processor: Intel(R) Core(TM) DUO CPU	DELL VOSTRO 230	87	11/08/2011 --------------- GPR-375

RAM: 2.00 GB Hard disk: 320 GB Monitor(Dell) KEYBORD(Dell) MOUSE(Dell)			
Dell Optiplex 390 Processor :Core i3 RAM: 2GB HDD: 500 GB Monitor(Dell) KEYBORD(Dell) MOUSE(Dell	DELL OPTIPLEX 390	25	2012- ——— 52
Thin Client (K/B + Mouse Microsoft 600 USB N-Computing Kit L-230 18.5 DELL LED E 1912 LT) Monitor (Dell) Keyboard (Microsoft) Mouse (Microsoft)	DELL (N-Computing)	90	2/4/2011 6/7/2012 ——— 50
Server	Dell Power Edge T110	01	2011 ——— 388

Mechanical Department:

Table No: 4.10 Details of computing facilities of Mechanical Department

Configuration	Make	Quantity	Year of purchase
Model : DELL Vostro 220 CPU : Processor: Pentium (R) Dual-Core RAM: 1.00 GB HDD: 160 GB Monitor (Dell) Keyboard (Dell) Mouse (Dell)	DELL VOSTRO 220	07	29/05/2009 —————— GPR-108
Dell Vostro 230 Processor: Intel(R) Core(TM) DUO CPU RAM: 2.00 GB Hard disk: 320 GB Monitor(Dell) KEYBORD(Dell)	DELL VOSTRO 230	10	11/08/2011 --------------- GPR-375

Configuration	Make	Quantity	Year of purchase
MOUSE(Dell)			
Dell OptiPlex 380 Processor :Core i3 RAM: 2GB HDD: 500 GB Monitor(Dell) KEYBORD(Dell) MOUSE(Dell	DELL OPTIPLEX 380	30	11//08/2011 _____ GPR-111

Electronics and Telecommunication Department:

Table No: 4.11 Details of computing facilities of Electronics and Telecommunication Department

Configuration	Make	Quantity	Year of purchase
Model : DELL Vostro 220 CPU : Processor: Pentium (R) Dual-Core RAM: 1.00 GB HDD: 160 GB Monitor (Dell) Keyboard (Dell) Mouse (Dell)	DELL VOSTRO 220	15	29/05/2009 _____ GPR-108
Dell Vostro 230 Processor: Intel(R) Core(TM) DUO CPU RAM: 2.00 GB Hard disk: 320 GB Monitor(Dell) KEYBORD(Dell) MOUSE(Dell)	DELL VOSTRO 230	03	11/08/2011 --------------- GPR-375
Dell Optiplex 380 Processor :Core i3 RAM: 2GB HDD: 500 GB Monitor(Dell) KEYBORD(Dell) MOUSE(Dell	DELL OPTIPLEX 380	29	11//08/2011 _____ GPR-111
Thin Client (K/B + Mouse Microsoft 600 USB N-Computing Kit L-230 18.5 DELL LED E 1912 LT) Monitor (Dell)	DELL (N-Computing)	09	2/4/2011 6/7/2012 _____ 50

Keyboard (Microsoft) Mouse (Microsoft)			

Civil Department:

Table No: 4.12 Details of computing facilities of Civil Department

Configuration	Make	Quantity	Year of purchase
Model : DELL Vostro 220 CPU : Processor: Pentium (R) Dual-Core RAM: 1.00 GB HDD: 160 GB Monitor (Dell) Keyboard (Dell) Mouse (Dell)	DELL VOSTRO 220	01	29/05/2009 _____ GPR-108
Dell Optiplex 380 Processor :Core i3 RAM: 2GB HDD: 500 GB Monitor(Dell) KEYBORD(Dell) MOUSE(Dell	DELL OPTIPLEX 380	20	11//08/2011 _____ GPR-111

First Year Engineering Department:

Table No: 4.13 Details of computing facilities of First Year Engineering

Configuration	Make	Quantity	Year of purchase
Model : DELL Vostro 220 CPU : Processor: Pentium (R) Dual-Core RAM: 1.00 GB HDD: 160 GB Monitor (Dell) Keyboard (Dell) Mouse (Dell)	DELL VOSTRO 220	05	29/05/2009 _____ GPR-108

Library:

Table No: 4.14 Details of computing facilities of Library

Configuration	Make	Quantity	Year of purchase
Model : DELL Vostro 220 CPU : Processor: Pentium (R) Dual-Core RAM: 1.00 GB HDD: 160 GB Monitor (Dell) Keyboard (Dell) Mouse (Dell)	DELL VOSTRO 220	10	29/05/2009 _____ GPR-108
Dell Optiplex 390 Processor :Core i3 RAM: 2GB HDD: 500 GB Monitor(Dell) KEYBORD(Dell) MOUSE(Dell	DELL OPTIPLEX 390	01	2012- _____ 52

4. LAN Facility:
      1. All the computers in campus are connected through structured cabling
      2. Star Topology is used for connecting all computers in all labs
      3. In each lab all computers are connected to 24 port switch.
      4. And all switches are connected centrally to server.
      5. Cat 6 cables are used in college campus.

Table No: 4.15 Details of LAN facilities

Configuration	Make	Quantity	Year of purchase
SERVER IBM X3200	IBM	01	2011
Patch panel DLink-48	DLink	02	11/03/2015
Switch DLink-48 port DGS-1210-52	DLink	02	11/03/2015
RACK 22U Val	-	01	11/03/2015

5. Wi-Fi Facility:

Table No: 4.16 Details of Wi-Fi facilities

S N	Make	Speed	Range
1	DIGISOL DGHR 3400 Wireless Broadband Home Router	300mbps	50M
2	Ubiquity Nano Section M2	150 mbps	500M

6. Licensed Softwares:

System Softwares:

Table No: 4.17 Details of Licensed System Softwares

S N	Software	Licensed / Freeware
1	Ubuntu	Freeware
2	Microsoft Windows Server 2003	Licensed
3	VMware vCenter Server	Licensed

Application Softwares:

Table No: 4.18 Application Softwares Available

S N	Software	Licensed / Freeware	Department
1	Turbo C++	Freeware	CSE
2	Java 1.6	Freeware	CSE
3	Net beans 7.3	Freeware	CSE
4	XAMPP 1.8.3	Freeware	CSE
5	Eclipse	Freeware	CSE
6	Python 3.2	Freeware	CSE
7	ETNL Language Lab	Licensed	CSE
8	Adobe Reader	Freeware	CSE
9	Notepad++ 6.5.4	Freeware	CSE
10	Postgre	Freeware	CSE
11	Scilab	Freeware	E&TC
12	XILINX 13.2	Licensed	E&TC
13	TINA v5	Licensed	E&TC
14	MultiSim (Student Version)	Freeware	E&TC
15	SAP	Licensed	Civil
16	AutoCAD 2009	Freeware	Civil, Mechanical
17	CATIA 5-R23	Licensed	Mechanical
18	Ansys 14	Licensed	Mechanical
19	Net Protector Antivirus 2014	Licensed	Office, Exam Cell
20	Symantec Campus Antivirus	Licensed	All Branch

7. No. of nodes/computers with internet facility: 383 (404-21[Lang. Lab])

8. Any other
1.   Total No. of Printers

Table No: 4.19 Details of printers available in College

S N	Type of printer	Quantity
1	Dot Matrix	06
2	Laser	15
3	Ink Jet	01
4	All In One	01

2. **Total No. of Scanners**   : 07 No
3. **Total No. of LCD projectors**   : 08 No
4. **Total No. of Xerox Machines** : 02 No
5. **Total No. of digital Cameras** : 06 No
6. **Total No. of laptops**   : 01 No
7. **Multimedia PCs (Language Lab)** :21 No
8. **Computer-student ratio**   : 1:2
      No of comp   : 404
      No of students   : 741
9. **Stand alone facility**   : No

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

Table No: 4.20 Details of computer and internet facility made available to faculty and students:

Facility provided to	No. of comp. with internet connection		No. of Computer without Internet connection	Time allocated	Location
1. Faculty	63		Nill	8 AM TO 6 PM.	Staff Cabin
2. Students	1	321	21	8AM TO 8 PM.	In Lab(321)
					Language Lab (21)
	2				Boys' Hostel (40)
	3				Girls' Hostel(15)

1. We are having dedicated leased line of 10mbps from BSNL.
2. We have also installed two Wi-Fi routers in college campus.

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

1. We are planning to provide Wi-Fi facility to Boys' hostel and Girls' hostel.
2. Replacing old computers with new ones phase wise.

3. All classrooms will be equipped with projectors and internet connection.
4. Development of LAN based software for internal campus communication.
5. To develop online feedback system.
6. TO increase bandwidth for internet up to 100 mbps.

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

Table No: 4.21 Details of annual budget

Year	Budget for procurement in (Rs)	Utilization (Rs)	Budget for Deployment/Maintenance(Rs)	Utilization (Rs)
2009 -10	35,00,000/-	33,32,473/-	2,000/-	150
2010 -11	1,10,00,000/-	1,07,92,906/-	1,000/-	655
2011 -12	10,000/-	3,626/-	5,000/-	4,176
2012 -13	40,000/-	38,956/-	45,000/-	39,756
2013 -14	10,000/-	4,150/-	10,000/-	4,150
2014 -15	25,000/-	21,053/-	25,000/-	21,053

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

1. Spoken Tutorial
For Students

Table No: 4.22 Details of ICT resources for student

S N	Date	Name of program	No. of students benefited
ACADEMIC YEAR 2014-15			
1	27/04/2015	PHP & MySQL	37
2	30/03/2015	Ruby	39
3	10/01/2015	Libre Office Suite Writer/Maths/Impress/Draw/Calc/Base	123
ACADEMIC YEAR 2013-14			
4	10/09/2014	PHP & MySQL	34
5	11/09/2014	C & CPP	34
6	27/09/2014	Libre Office	123
7	15/11/2014	Libre Office Suite	123

| 8 | 27/09/2014 | Libre Office Suite | 105 |
| 9 | 30/08/2014 | JAVA | 32 |

For Staff

Table No: 4.23 Details of ICT resources for staff

S N	Date	Name of program	No. of students benefited
ACADEMIC YEAR 2014-15			
1	30/01/2015	Latex	50

Use of PPT
Department: Mechanical   **Semester: I**

Table No: 4.24 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Jagtap S.S.	BE Mech	Auto. Engg.	Clutches
2	Mr. Kale S.S.	SE Mech	M/C Drawing	Assembly Details
3	Mr. Bhosale G.H.	FE A & B	Basic Mech. Engg.	Pump, Turbine
4	Mr. Panchal R.J.	BE Mech	RAC	Basic Ref. Cycle
5	Mr. Yadav G.D.	TE Mech	TOM-II	Differential Gera Box
6	Mr. Shinde S.M.	BE Mech	Auto. Engg.	Transmission

Use of technical videos
Department: Mechanical   **Semester: II**

Table No: 4.25 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Jagtap S.S.	BE Mech	Auto. Engg.	Introduction
2	Mr. Panchal R.J.	BE Mech	RAC	Basic Ref. Cycle
3	Mr. Shinde S.M.	BE Mech	Auto. Engg.	Clutch, gear box

Animated Videos
Department: Mechanical   **Semester: I**

Table No: 4.26 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Jagtap S. S.	BE Mech	Auto. Engg.	Introduction
2	Mr. Panchal R. J.	BE Mech	RAC	Basic Ref. Cycle

Use of PPT

Department: Mechanical   Semester: II

Table No: 4.27 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Bhosale G. H.	TE Mech	ICE	Engine & Carburetor System
2	Mr. Kale S. A.	TE Mech	CAD/CAM	Comp. Graphics
3	Mr. Pawar C. C.	SE Mech	MP	Casting
4	Mr. Jagtap S. S.	BE Mech	Auto. Engg.	Clutches, Gear box, Breaks, Suspension system

Use of tech. videos
Department: Mechanical   Semester: II

Table No: 4.28 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Bhosale G.H.	TE Mech	ICE	Fuel injection system, cooling system
2	Mr. Kale S.A.	TE Mech	CAD/CAM	Prog. Importance of CAD/CAM,CNC machining NPTEL
3	Mr. Jagtap V.L.	TE Mech	MMM	Metrology, Measurement
4	Mr. Jagtap S.S.	BE Mech	Auto. Engg.	Clutches, Gear Box, Breaks, suspension System

Animated Videos
Department: Mechanical   Semester: II

Table No: 4.29 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Bhosale G. H.	TE Mech	ICE	IC engine working, starting system
2	Mr. Kale S. A.	TE Mech	CAD/CAM	CNC machining, part. Prog.
3	Mrs. Phule P. D.	SE Mech	TOM-I	Simple Mechanism Camps, Breaks, Gearbox, friction

USE of PPT
Department: Civil   Semester: I

Table No: 4.30 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Upase S. S.	BE CIVIL	QSV	Tendering
2	Mr. Upase S. S.	TE CIVIL	Engg. Mgmt.	ALL

Use of Charts
Department: Civil   Semester: I

Table No: 4.31 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Yadav S.P.	TE CIVIL	Design of Steel Structure	All
2	Mr. Deshpande A.A.	SE CIVIL	Geology	Tunnel
3	Mr. Deshpande A.A.	SE CIVIL	Design of concrete structure	All

Animated Videos
Department: Civil   Semester: II

Table No: 4.32 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Upase S.S.	BE CIVIL	CPTP	All

Use of PPT
Department: Computer Science and Engg.   Semester: I

Table No: 4.33 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Mali M. V.	SE CSE	Comp. Graphics	Introduction
2	Mr. Kulkarni S.M.	SE CSE	Adv. C Concepts	Hashing,Recursion
3	Mr. Lonkar Y.S.	TE CSE	OSC	Virtual Mem.
4	Mr.Bhosale S.P	SE CSE	VB	ActiveX control, Introduction, Database Connection
5	Mr. Bhosale D.V.	TE CSE	Comp. Networks	All
6	Mr. Bhosale D.V.	BE CSE	Network	Introduction

			Security	
7	Mr. Sawane M.S.	BE CSE	STQA	All
8	Mr. Sawane M.S.	TE CSE	MCOM	All

Animated Videos
Department: Computer Science and Engg.   **Semester: I**

Table No: 4.34 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Bhosale D.V.	TE CSE	Comp. Networks	Networking

Use of PPT
Department: Computer Science and Engg.   **Semester: II**

Table No: 4.35 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Mali M.V.	TE CSE	UOS	All
2	Mr. Kulakrni S.M.	TE CSE	DBS	Introduction
3	Mr. Lonkar Y.S.	BECSE	PMEE	Section-II
4	Mr. Bhosale S.P.	SE CSE	FSA	Turing m/c,FSN

Use of tech. Video
Department: Computer Science and Engg.   **Semester: II**

Table No: 4.36 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Kulkarni S.M.	SECSE	DCOM	Networking

BEMEAR Presentation
Department: Computer Science and Engg.   **Semester: II**

Table No: 4.37 Details of Computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Savekar S.G.	SE CSE	M-III	Vedic Maths

Use of PPT
  Department: Electronics and Tele Communication   **Semester: I**

Table No: 4.38 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Halcherikar R.R.	BE E&TC	Image Processing	All
2	Mr. Parkhe B.A.	BE E&TC	CCN	All

Use of tech. Video
Department: Electronics and Tele Communication   Semester: II

Table No: 4.39 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Joshi A.A.	BE E&TC	Pattern Recognition	All
2	Mr. Parkhe B.A.	BE E&TC	Broadband	All

Use of PPT
Department: General Science   Semester: II

Table No: 4.40 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mrs. Mulani T.T.	FE A & B	Engg. Physics	Crystallography
2	Mr. Bhosale D.V.	FE A	Comp. Prog.	Introduction
3	Mr.Panchal R.J.	FE	EG	Curv, Line

Use of Animated Videos
Department: General Science   Semester: II

Table No: 4.41 Details of computer aided teaching/learning materials

S N	Faculty Name	Class	Subject	Topic
1	Mr. Panchal R.J.	FE	EG	Ortho, ISO

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled class rooms/learning space etc.)By the institution place the student at the center of teaching-learning process and render the role of facilitator for the teacher.
Independent learning:

Table No: 4.42 Details of online learning resources

S N	Date	Topic Name	No. of students benefited	Faculty	Mode of conduct
1	17 April 2015	Signals & Systems	23	Dr. V. M. Gadre IIT Bombay	Video Conferencing
2	5 Feb-15 April 2015	Comp. Prog WCS 101.1x	51	Dr. Deepak Phatak IIT Bombay	Video Conferencing

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

No

4.4 Maintenance of Campus Facilities

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

Adequate physical facilities are provided on the college campus for facilitating teaching learning process. There is optimum use of the facilities available to maintain the quality of academic and other programs on the campus. The management provides budget as per requirement. Miscellaneous maintenance is done by college. During the last 4 years the institution has undertaken following expenses.

Table No: 4.43 Total Expenses in the Last Four Years for Maintenance of College Campus Facilities (Amount in Lacs)

S N	Particulars	2011-2012		2012-2013		2013-2014		2014-2015	
		Budget	Expenses	Budget	Expenses	Budget	Expenses	Budget	Expenses
1	Building		-		-	20.00	17.43	5.00	3.22
2	Furniture		-		-		-		-
3	Equipment		-		-		-		-
4	Computers		-		-	1.00	0.46	1.00	0.55
5	Vehicles		*		*		*		*
6	Any Other	20.00	16.72	5.00	4.68	5.00	4.48	0.50	0.25

* Vehicle service is provided by Karmayogi Pratishthan.

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

Table No: 4.44 Maintenance and upkeep of Infrastructure and facility

Infrastructure and facility	Maintenance Description
Land Build up area Exclusive for the institution Land: 10 acres Build-up floor space:14815.55 sq.m	Cleanliness is maintained by the outsourced people organized by the institute level in charge.
Class Rooms	Well furnished class rooms are cleaned by out sourced sweepers every day. Cleaning in charge Mr. Lokhande and his team take care of it.
Conference Hall	Well furnished conference hall is cleaned by out sourced sweepers every day.
Reading Hall	Reading hall of the college is maintained

	by Lib. Incharge at regular intervals and cleaned every day.
Seminar Halls	Seminar hall of the department is maintained by technician at regular intervals.
Drawing Hall	Drawing hall of the each department is maintained by department itself.
Tutorial Rooms	Tutorial rooms are cleaned every day and maintained by faculty in charge.
Laboratories	A faculty in charge and a laboratory technician looks after the maintenance of each laboratory.
Equipment	Technician maintains the log book for equipment of the laboratory. They prepare the preventive maintenance schedules under the guidance of faculty in charge and carry out regular maintenance as per the schedules.
Computers	A team of Technician from EDP and a faculty in-charge of each computer laboratory are responsible for maintenance of systems and software. Faculty in charge carryout maintenance of each computer at regular intervals and record in the complaint book.
Main Library	All the books are accessioned accordingly by the serial number of accession number and classified subject wise and shelved in the rack according to call numbers regularly.
Dept. Library	Faculty members of departments can borrow books from Dept. library and students in their free time can make use of the books available in the department library. One faculty member is made in charge of the dept. library.
Internet/Intranet and Wi-fi	Internet & wi-fi related matters are maintained by a team of faculty in computer science department and EDP.
Electricity	Technicians and Attender look after the maintenance of electricity.
Water	Sufficient water available to meet the requirements of garden and toilets. It caters the need of staff & students, Building etc.
Civil Maintenance	College has Separate estate office and

	college appointed campus in charge Mr. Kadam for overseeing the maintenance of building, class room, laboratories, road etc.
Security	The college hired the services of a reputable security agency and the in charge is Mr. Lokhande.
Parking	College has adequate parking facility available in college campus.
Gardening	The gardening and its beautification maintenance is done through Mr. Sawant and his team. Also hired outside person to take care of plants and their upkeep.
Telecom	The college has provided facility for fast communication among the staff by using intercom. Maintenance is done through Mr. Shinde
Girls'/Boys' common room	Separate girl's and boy's common room available in college.
Canteen	Canteen is located at the far end of the college ground.
Washrooms	Separate washrooms are available and cleaned every day.

4.4.3 How and with what frequency does the institute take the up calibration and other precision measures for the equipment/instruments?
Calibration of UTM is done on regular basis.

4.4.4. What are the major steps taken for location, upkeep and maintenance of sensitive equipment? (Voltage Fluctuations, Constant supply of water etc.)
The college has wide spread arrangements for power connections with a central substation, control panel and power room. Panels and distributions boxes are available at individual department.

Battery Backup:

All departments have a battery backup facility. Maintenance of UPS & battery is done by external agencies.

Table No: 4.45 Details of battery backup facility

S N	Description	Quantity
1	AGASTI 200 N: 20 KVA UPS	3
2	TABULAR BATTERY 20 KVA UPS 4 hrs.b/up:180h	120

Photo: Battery Backup

Generator Specification:

The college has 2 generator sets for the uninterrupted power supply of 70 KVA and 15KVA. Also we provide UPS and power stabilizers.

Table No: 4.46 Details of Generator Specification

Name of Manufacturer	Kirloskar Oil Engines Limited
Model No.	HA694TC
Year of Manufacturing	11th September 2004
Rated BHP	83
Rated KVA	70
Full load current AMP	97.4
Rated Voltage	415V
Frequency	50 HZ
Rated RMP	1500
Battery Voltage Dc	20V
Approx. weight kg	1920

Photo: Generator

Photo: Generator

Drinking Water:

The institute provides water purifying units at hostel and college.

Table No: 4.47 Details of Capacity of RO

S N	Each unit processes ltr/hour	Quantity
1	1,000	3

- The college has an organizational supply mechanism to different departments.
- The college has water cooler facility at each department. Water coolers are cleaned on weekly basis. Apart from the same the central system for water supply is checked on monthly basis and the necessary precautions viz. cleaning of tanks by Mr. Devadikar and his team.
- The waste of water part is again reused for planting the trees in and around the campus.

Photo: One Ro Unit at Karmayogi Engineering College

Photo: Two RO Unit at Boys' Hostel

Water level control system:
Water level control system is available in college.

Fire extinguisher:
Fire extinguishers are kept at major places. Available in **5kg** and **2 kg**

Photo: Fire extinguisher

Table No: 4.48 Details of fire extinguisher

S N	Manufacturer	Year of Mfg	Capacity	Type	Expire date		Refill & Serviced By
					From	To	
1	FIRE SAFETY SYSTEM	2009	5 Kg	ABC	28-11-2014	27-11-2015	Navbharat Enterprises Pandharpur

Locations: - Electrical lab, computer lab, Library, workshop

Any other relevant information

a. **Following facilities are provided in the building to make barrier free environment on the campus.**
   1. Provision of ramps in the entrance of the building.
   2. Class rooms & few laboratories are available on ground floor.
   3. Railings are provided for the passage.
   4. Special toilets for wheelchair users.
   5. Tactile flooring provided for ramps.
b. **Has all weather approach road.**
c. **Library provides FTP server for all the usersand they can use e-material for e.g. e-books-journals, e-notes NPTEL videos.**

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student mentoring and support

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

Yes

Prospectus:
- Updated prospectus provided to the admitted students.
- It provides information like admission rules, eligibility, CAP process, antirangging act, various committees, program wise intake, department wise facilities, laboratories, staff, hostel facilities and other facilities.
- It also gives fee structure approved by Govt.

Student Handbook:
- Student handbook is made available to the students.
- It includes
  - Course wise syallabus
  - PEO's, PO's, CEO's, CO's
  - Teaching plans
  - Academic Calender
  - Question bank, etc.

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

Table 5.1 Scholarships / free ships given to the students as per year

Year: 2012-13			
Category	Type of scholarship (state/central Govt/NGO or other	No of Beneficiaries	Total Amount
SC	State	6	346,647.00/-
SBC	State	4	216,839.00/-
VJNT	State	11	577,769.00/-

Table 5.2 Scholarships / free ships given to the students as per year

Year: 2013-14			
Category	Type of scholarship (state/central Govt/NGO or other	No of Beneficiaries	Total Amount
SBC Scholarship	State	4	275,997.00/-
SBC Free ship	State	4	239,572.00/-
SC	State		
VJNT	State	83	5,342,071.00/-
OBC	State	3	98,781.00/-

Table 5.3 Scholarships / free ships given to the students as per year

Year: 2014-15			
Category	Type of scholarship (state/central Govt/NGO or other	No of Beneficiaries	Total Amount
SBC Scholarship	State	9	737,999.00/-
SC Scholarship	State	53	4,495,671.00/-
SC Free ship	State	6	449,100.00/-
VJNT Scholarship	State	109	7,945,744.00/-
VJNT Free ship	State	7	486,321.00/-
OBC Scholarship	State	75	2879823/-
OBC Free ship	State	15	515,689.00/-

Scholarships:

Table 5.4 Karmyogi scholarship for year 2012-13

Class	Type of scholarship	Amount
FE	KEC Scholarship	5000/-
Direct SE	KPC Student Scholarship	15000/-
Direct SE	Other Scholarship	10,000/-

Table 5.5 Karmyogi scholarship for year 2013-14

Class	Type of scholarship	Amount	Number of student	Total Amount
FE	KEC Scholarship	5000/-	29	13,98,331/-
Direct SE	KPC Student Scholarship	15000/-	52	7,80,000/-
Direct SE	Other Scholarship	10,000/-	29	2,90,000/-
Direct SE	Extra Concession in fees	-	8	50,000/-

Table 5.6 Karmyogi scholarship for year 2014-15

Class	Type of scholarship	Amount	Number of student	Total Amount
FE	KEC Scholarship	5000/-	78	3,90,000/-
		-	142	2309137/-
		Total	220	26,99,137/-
Direct SE	KPC student Scholarship	15000/-	76	11,40,000/-
Direct SE	Other Scholarship	10,000/-	34	3,40,000/-
Direct SE	Extra Concession in fees	5000/-	133	3,14,830/-

Scholarship is disbursed within 15 working days after approval from central/ state government agencies.

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

Table 5.7 Percentage financial assistance for year 2012-13

Year – 2012-13				
Type of scholarship	Provided by (state/central Govt/NGO or other)	Total strength	Beneficiaries	Percentage
Scholarship	State		21	3.17%
Free ship	State	662	-	-
EBC concession	State		257	38.82%

Table 5.8 Percentage financial assistance for year 2013-14

Year – 2013-14				
Type of scholarship	**Provided by (state/central Govt/NGO or other)**	**Total strength**	**Beneficiaries**	**Percentage**
Scholarship	State		90	11.98%
Free ship	State	751	4	0.533%
EBC concession	State		278	37.01%

Table 5.9 Percentage financial assistance for year 2014-15

Year – 2014-15				
Type of scholarship	**Provided by (state/central Govt/NGO or other)**	**Total strength**	**Beneficiaries**	**Percentage**
Scholarship	State		246	33.20%
Free ship	State	741	28	3.8%
EBC concession (EBC+ESBC)	State		259+26=285	38.46%

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

A)

Table 5.10 Facilities given to students

S N	Category	Supported by (state/central Govt/NGO or other)	Facilities available
1	SC/ST/VJNT/ SBC	State	• 100% tuition fee reimbursement • Book bank facility available

2	OBC	State	• 100% tuition fee reimbursement • Book bank facility available
3	EBC	State	• 50% tuition fee reimbursement • Book bank facility available
4	Econimical Week Students	Institute	• Special Concession in fees • Earn and Learn scheme • Installment for payment of fess

B) Physical Disabilities

- Railing to corridors provided.
- Ramp provided to main building and workshop.
- Necessary classroom, laboratory, workshop is available at ground floor only.

C) Students Participation in Competitions:
- College provides 50% reimbursement of expenses made for attending technical events/workshops.
- Weightage in TW works (5%) to students participation in competitions.

D) Insurance
Insurance facility is made available by the University for students and their parents on nominal charges.

Table 5.11 Insurance given to students

Year	No. of Student	Amount Paid (Rs.)
2011-12	548	8220
2013-14	751	11265
2014-15	743	11145

E) Medical facilities

Table 5.12 Medical facilities given to students

Name of doctor	Qualification	Timing
Dr. Salunkhe. D.A.	BAMS	7:45PM-8:45PM

- Availability of doctor in the college dispensary.
- First Aid box at every department.
- Ambulance agreement.
- Agreement with Hospital(MOU) for critical cases

- Emergency 24 hrs vehicle available at hostel.

F) Organisation of Coaching

- Special coaching classes organized for preparation of UPSC/MPSC exams.
- Library facility developed for UPSC/MPSC study material.

G) Skill Development

- Regular skill developemt programs are arranged for spoken English, soft skills and aptitude.
- Computer literacy programs are conducted through spoken tutorials developed and supported by IIT.
- Training on latest software also organised by external agencies.
- Language lab developed for improving spoken English.

H) Support for Slow learners

- Slow learners are identified through test performance and person counseling.
- Remedial teaching and special guidance provided to such students after college time.

I) Exposure to higher learning

- Students are encouraged to apper for GATE.
- Guidance for GATE preparation provided.
- Study material/NPTEL videos are made available.

J) Publication of student magazine

- College magazine "Karmayogi" published every year.
- Students are provided to publish their articles.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.
The institute has taken due steps to promote and inculcate entrepreneurial skills among the students by organizing guest lecture by the person from industry and soft skill trainers. Students are exposed to the industry through the visits. Awareness among the students is created regarding industrial opportunities and availability of financial assistance through government scheme. Soon we are starting entrepreneurial skill development cell in college.

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

- **Additional academic support, flexibility in examinations**
  5% Extra mark weigtage given in term work mark for students' participation in sports, technical and cultural activities.
- **Special facilties for sports uniform and materials**
  1) College provide all support to the student – track suit are provided to students also all the sport material/ equipment are available. The physical director is appointed to guide student. Annual social gathering is organized every year to enhance cultural activity of student.
  2) Facility available- All sports material available, Ground track available
- **Any other**
  1) Intra college sport tournaments organized every year.
  2) NSS unit is run by college.
  3) Gymkhana provides all indoor/outdoor games facililies.
  4) Gym equipments available.

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

Institute provides support like books in library along with the NPTEL video lectures. The aspirants use these resources and try to prepare for various competitive exams. The following table shows the qualified GATE student for stated year.

Mechanical Department –

Table 5.13 List of GATE qualified students

S N	Year	Student Name	Gate Score
1	2013-14	1. Ashish Utpat	30.67
2	2014-15	2. Desai Styajeet Jayvant	41.90

UPSC/MPSC coaching facility started recently.

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

Psycho-Social Counseling-
Counselor – Dr. Sangita Shital Patil
Qualification- M.S. (Counseling & Psychotherapy)
Details

Table 5.14 Counseling services provided

S N	Year	Counseling count
1	2012-13	30
2	2013-14	35
3	2014-15	150

Academic Personal & Career counseling –

1. Every faculty work as a guardian for 15 students and acts as their friend philosopher & guide.
2. Necessary guidance in academics and career related issues are extended by the guardian.
3. Every student can share his/her personal problem; discuss failure and simultaneously plans a road map for success.

5.1.9 Does the institute have a structured mechanism for career guidance and placement of its student? If yes detail on the service provided to help student identify job opportunity and prepared themselves for interview and percentage of student selected during campus interview by employers?
Training and placement cell invites various companies in the campus for placement. Training and placement cell is run by T & P head and assist by T&P coordinator faculty from different department. T&P cell conducts program for aptitude preparation, CRT program, Soft Skill.

Table 5.15 Percentage of students selected

Academic Year	Percentage of student selected
2012-13	32
2013-14	35
2014-15	31

5.1.10   Does the institution have a student grievance redressal cell? If yes, list the grievances reported and redressed last four year?
Yes the college has a student redressal cell headed by Dr. S.P Patil as chairman and other are the members as it's listed below.

Table 5.16 student grievance redressal cell

S N	Year of Establishment	Name of the chairman and members	Member from student	Grievances reported during last four year
1)	04/02/2013	1) Mr. Deshpande N.D - Lokpal 2) Dr. Patil S.P – Chairman Member- 3) Mrs. Mulani T.T 4) Mr. Nagne B.K 5) Mr. Mudhegaonkar J.L	1) Miss. Yadav H.S 2) Miss Dhere M.M	1) Grievance regarding to seating arrangement in bus 2) Grievance regarding bad odor to drinking water in college 3) Grievance regarding to cooler and hot water provision in Hostel 4) Grievance regarding to

				washing of cooler in college

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

A Sexual Harassment Prohibitory Committee is established in the institute and Mrs. Mangalatai Arun Shah is the chairman of committee. This Committee handles the cases related to sexual harassment of woman both student and staff. The institute has not received any such complaint.

Table 5.17 Sexual Harassment Prohibitory Committee

S N	Year of Establishment	Name of the chairman and members	Member form from student	Cases reported after establishment of cell
1)	20/01/2012	Chairman- 1) Mrs. Mangalatai Arun Shah Members- 1) Mrs. JubaidaShaik 2) Mr. Deshmane A.A 3) Dr. Patil S.P 4) Mrs. Mulani T.T	1) Miss. More D. A 2) Mr. Gaudraj S. A	No such cases have reported as of now.

Policy of Sexual Harassment Prohibitory Committee

1) Maintaining Complaint register.
2) If any complaint is registered then call for special meeting of committee with the permission of chairperson.
3) Call the concerned student in meeting and get all the information about sexual harassment.

4) If complaint is found genuine then decide the action to be taken against person doing harassment.
5) Take the action after informing to the principal of institute.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes, we have the anti-raging Committee in our institute to make sure the campus is ragging free. The relation between the students is healthy as it is supposed to be. The institute has the committee to prevent ragging cases. Yearly 2 meetings are held.

Committee:

Table 5.18 Anti-ragging committee

S N	Name	Designation	Contact
1	Dr. S.P.Patil	Chairperson	9503763370
2	Mr. J.L. Mudegaonkar	Member Secretary	9421090805
3	Mr. S.J. Savekar	Member	9860035138
4	Mr. A.T. Babar	Member	9423526755
5	Mrs. T.T. Mulani	Member	9921731781
6	Mrs. A.P. Palekar	Member	9850308105
7	Mr. S.P. Maske	Member	9822526869

There is no such case reported so far in the campus.

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

Welfare Schemes made available to the students by the institute are as follows.

1) Insurance for students.
2) Scholarship from government & Institute.
3) Placement & Counseling cell.
4) Gymnastics for students.
5) Canteen at reasonable rate.
6) NSS.
7) Competitive Exam cell.
8) Earn & Learn scheme for economically backward students.
9) Transportation Facilities.

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

▪ Alumni Association is in place, but it is not registered.
▪ Alumni meetings are arranged to sugeestions for institute development.

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment highlight the trends observed.

Table 5.19 Percentage of students progressing to higher education CSE Department

S N	Year	No. of Pass out students	UG to PG	Employed		
				Campus selection	Other than campus	Self employ
1	2012-2013	17	2	12	0	0
2	2013-2014	59	5	26	0	0
3	2014-2015	38	6	6	0	0

Table 5.20 Percentage of students progressing to higher education CIVIL Department

S N	Year	No. of Pass out students	UG to PG	Employed		
				Campus selection	Other than campus	Self employ
1	2012-2013	16	6	3	4	3
2	2013-2014	30	3	4	18	5
3	2014-2015	27	1	0	15	11

Table 5.21 Percentage of students progressing to higher education Mechanical Department

S N	Year	No. of Pass out students	UG to PG	Employed		
				Campus selection	Other than campus	Self employ
1	2012-2013	49	16	3	20	0

| 2 | 2013-2014 | 110 | 7 | 28 | 24 | 0 |
| 3 | 2014-2015 | 87 | 2 | 17 | 19 | 0 |

**Table 5.22 Percentage of students progressing to higher education
E&TC Department**

S N	Year	No. of Pass out students	UG to PG	Employed		
				Campus selection	Other than campus	Self employ
1	2012-2013	13	01	13	07	00
2	2013-2014	45	04	22	16	01
3	2014-2015	34	02	31	13	00

5.2.2 Provide details of the programme wise pass percentage and completion rate for last four years? Furnish programme-wise details in comparison with that of the previous performance of the same institution of the affiliating university within the city/district.

CIVIL DEARTMENT

Table 5.23 Programme wise pass percentage

Year	Entry	
	FE	DSE
2009-10	54	-
2010-11	31	11
2011-12	17	07
2012-13	10	06
2013-14	19	14
2014-15	39	28

MECHANICAL DEARTMENT

Table 5.24 Programme wise pass percentage

Year	Entry	
	FE	DSE
2009-10	60	-
2010-11	103	46

2011-12	67	78
2012-13	83	14
2013-14	71	37
2014-15	55	77

ELETRONIC & TELECOMMUNICATION DEARTMENT

Table 5.25 Programme wise pass percentage

Year	Entry	
	FE	**DSE**
2009-10	60	-
2010-11	59	06
2011-12	23	21
2012-13	09	07
2013-14	28	12
2014-15	24	07

COMPUTER SCIENCE DEARTMENT

Table 5.26 Programme wise pass percentage

Year	Entry	
	FE	**DSE**
2009-10	51	-
2010-11	31	08
2011-12	12	44
2012-13	09	19
2013-14	20	17
2014-15	24	20

Our establishment year is 2009. So we have a record of last three batches which is given below

Table 5.27 Percentage passing as per department

S N	Year	Course	No of students admitted	No of student passed	Passed percentage
1	2012-2013	Computer Science and Engineering	17	17	100
2	2013-2014		59	55	93.22
3	2014-2015		38	36	94.73

Table 5.28 Percentage passing as per department

S N	Year	Course	No of students admitted	No of student passed	Passed percentage
1	2012-2013	Civil Engineering	16	15	93.75
2	2013-2014		30	27	90.00
3	2014-2015		27	25	92.59

Table 5.29 Percentage passing as per department

S N	Year	Course	No of students admitted	No of student passed	Passed percentage
1	2012-2013	Electronics & telecommunication Engineering	13	13	100
2	2013-2014		47	45	95.47
3	2014-2015		36	34	94.44

Table 5.30 Percentage passing as per department

S N	Year	Course	No of students admitted	No of student passed	Passed percentage
1	2012-2013	Mechanical Engineering	49	49	100
2	2013-2014		110	108	98.18
3	2014-2015		87	87	100

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

The institute has a Training and Placement cell, which has organized campus interviews for the students. Aptitude, soft skill, and technical skill classes are arranged by the institution for the student to groom them in industry standard. The institute also assists student for their placement. Books are available in library; NPTEL videos are available in library.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The Institution has adopted certain practice over the years to minimize the student dropout rate. These include individual attention, printed subject notes, and extra classes. Special supports are given on behalf of each and every department of this institute for those who are academically weaker. Special remedial classes are arranged for them. The candidates who have got ATKT in examination may attend the classes for the particular subjects in the next year. Continuous counseling, promptly attending to the students emotional and health needs, attendance shortage monitoring and communication of the same to parents/guardian to ensure that the students enrolled complete the course successfully.

The remedial classes arranged for various subjects in the departments are given below:

1. General Science Department:

Table No. 5.31 Year 2014-15:

S N	Name of the subject	Year	Name of the faculty	Date
1	BEE	FE-I	Prof. J.L.Mudegaonkar	2/3/15 to 13/4/15
2	APM	FE-I	Prof. A.T. Babar	2/3/15 to 13/4/15
3	EM-I	FE-I	Prof. N.G.Tiwari& Prof. S.J.Savekar	2/3/15 to 13/4/15

Table 5.32 Year 2013-14:

S N	Name of the subject	Year	Name of the faculty	Date
1	BEE	FE-I	Prof. J.L.Mudegaonkar	17/02/14 to 05/04/14
2	APM	FE-I	Prof. A.T. Babar	17/02/14 to 05/04/14
3	EM-I	FE-I	Prof. N.G.Tiwari and Prof. S.J.Savekar	17/02/14 to 05/04/14
4	EG	FE-II	Prof. R.J.Panchal	17/02/14 to 05/04/14

Table 5.33 Year 2012-13:

S N	Name of the subject	Year	Name of the faculty	Date
1	BEE	FE-I	Prof. J.L.Mudegaonkar	01/03/13 to 17/04/13
2	APM	FE-I	Prof. A.T. Babar	01/03/13 to 17/04/13

3	EM-I	FE-I	Prof. N.G.Tiwari and Prof. S.J.Savekar	01/03/13 to 17/04/13
4	EG	FE-I	Prof. R.J.Panchal	01/03/13 to 17/04/13

2. Computer Science and Engineering:

Table 5.34 Year 2014-15

S N	Name of the subject	Year	Name of the faculty	Date
1	E.M.-III	SE	Prof. N.G.Tiwari & Prof. S.J.Savekar	9/3/15 to 21/4/15
2	Theory Of Computation	TE	Mr. Kumbhar Hemant	03-04-2014
3	Compiler Construction	TE	Mr. Jagtap R. S.	04-04-2014

Table 5.35 Year 2013-14

S N	Name of the subject	Year	Name of the faculty	Date
1	E.M.-III	SE	Prof. N.G.Tiwari and Prof. S.J.Savekar	24/02/14 to 11/04/14
2	Formal System & Automata	SE	Mr. Nanware S. T.	20-03-2013
3	Advanced C Concept	SE	Mr. Pawar S. P.	07-08-2013
4	Operating System-|	TE	Mrs. Jadhav V.D.	13-08-2013

Table 5.36 Year 2012-13

S N	Name of the subject	Year	Name of the faculty/Guest lecturer	Date
1	E.M.-III	SE	Prof. N.G.Tiwari and Prof. S.J.Savekar	13/03/13 to 26/04/13
2	Compiler Construction	TE	Miss. Satarkar P. A.	18-01-2012
3	Operating System-||	TE	Miss. Deshmane K. A.	25-01-2012
4	Computer Network-|	TE	Mr. Korake A. G.	18-02-2012
5	Compiler Construction	TE	Miss. PatilAmita	16-04-2012
6	Formal System & Automata	SE	Mr. Nejkar R. S.	20-04-2012
7	System Programming	TE	Mr. Mustary N. R.	04-07-2012
8	VC++	BE	Mr. Jagtap R. S.	26-09-2012

3. Electronics and Telecommunication Engineering:

Table 5.37 Year 2014-15

S N	Name of the subject	Year	Name of the faculty	Date
1	E.M.-III	SE	Prof. N.G.Tiwari& Prof. S.J.Savekar	9/3/15 to 21/4/15
2	EME	TE-I	Dr. A.M Mulla (ADCET Ashta)	11/03/15

Table 5.38 Year 2013-14

S N	Name of the subject	Year	Name of the faculty	Date
1	E.M.-III	SE	Prof. N.G.Tiwari and Prof. S.J.Savekar	24/02/14 to 11/04/14
2	EME	TE-I	DilipAldar (KBPCOE)	16/10/13
3	VLSI DESIGN	BE-I	Bidwai S.S (ADCET Ashta)	17/08/13
4	EME	TE-I	SmithaShinde (ADCET)	29/09/13
5	VLSI DESIGN	BE-I	Bidwai S.S (ADCET Ashta)	29/09/13
6	EME	TE-I	Dr. A.M Mulla (ADCET Ashta)	13/10/13
7	EME	TE-I	DilipAldar (KBPCOE)	15/09/13
8	ECAD –II	SE-II	A.N Jadhav (D.Y.PATIL COE KOLHAPUR)	23/03/13-25/03/13

Table 5.39 Year 2012-13

S N	Name of the subject	Year	Name of the faculty	Date
1	E.M.-III	SE	Prof. N.G.Tiwari and Prof. S.J.Savekar	13/03/13 to 26/04/13
2	VLSI DESIGN	*BE-I*	BidwaiS.S (ADCET Ashta)	9/9/12
3	VLSI DESIGN	BE-I	Sodal G.K (BIGCE)	21/9/12
4	EME	TE-I	Dr. A.M Mulla (ADCET Ashta)	20/9/12
5	VLSI DESIGN	BE-I	R.D Lad (Islampur)	23/8/12 – 31/8/12
6	VLSI DESIGN	BE-I	R.D Lad (Islampur)	06/9/12 – 28/9/12
7	EME	TE-I	Dr. A.M Mulla (ADCET Ashta)	17/02/12
8	VLSI DESIGN	BE-I	Bidwai S.S (ADCET Ashta)	9/9/12

4. Civil Engineering:

Table 5.40 Year 2014-15

S N	Name of the subject	Year	Name of the faculty	Date
1	E.M.-III	SE	Prof. N.G.Tiwari & Prof. S.J.Savekar	9/3/15 to 21/4/15
2	Earthquake Engineering	BE-I	K.C. Barsawade	08/09/2014 To 28/09/2014
3	Fluid Mechanics	SE-I	Prof. R. S. Chavan	15/10/2014

Table 5.41 Year 2013-14

S N	Name of the subject	Year	Name of the faculty	Date
1	E.M.-III	SE	Prof. N.G.Tiwari and Prof. S.J.Savekar	24/02/14 to 11/04/14
2	Structural Mechanics-II	SE-II	Prof. M.B. Pawar	02/02/2014
3	Quantity Survey and analysis	BE-I	Prof. Desai B.D.	05/09/2013
4	Earthquake Engineering	BE-I	Prof. S.S. Mohite	15/10/2013

Table 5.42 Year 2012-13

S N	Name of the subject	Year	Name of the faculty	Date
1	E.M.-III	SE	Prof. N.G.Tiwari and Prof. S.J.Savekar	13/03/13 to 26/04/13
2	Building Planning & Design	TE-I	Bal Kumbhar	15/07/2012 To 30/09/2012
3	Earthquake Engineering	BE-I	K.C. Barsawade	15/07/2012 To 30/09/2012

5. Mechanical Engineering:

Table 5.43 Year 2014-15

S N	Name of the subject	Year	Name of the faculty/Guest lecturer	Date
1	E.M.-III	SE	Prof. N.G.Tiwari& Prof. S.J.Savekar	9/3/15 to 21/4/15

2.	Power Plant Engineering	BE	Mr. M. G. Palkar	29/08/2014
3.	Machine Design-I	TE	Mr. J. P. Pawar	03/09/2014
4.	Scope & Career in metallurgy	TE,BE	Mr. Pushkar Deshpande	22/09/2014
5.	Mechatronics	BE	Mr. P. K. Parase	20/03/2015

Table 5.44 Year 2013-14

S N	Name of the subject	Year	Name of the faculty/Guest lecturer	Date
1	E.M.-III	SE	Prof. N.G.Tiwari and Prof. S.J.Savekar	24/02/14 to 11/04/14
2.	Mechatronics	BE	Mr. P. K. Parase	15/02/2014
3.	Heat & Mass Transfer	TE	Mr. S. S. Kale	03/04/2014 to 04/04/2014

Table 5.45 Year 2012-13

S N	Name of the subject	Year	Name of the faculty/Guest lecturer	Date
1	E.M.-III	SE	Prof. N.G.Tiwari and Prof. S.J.Savekar	13/03/13 to 26/04/13
2	Manufacturing Processes	TE	Mr. P. K. Parase	04/08/2012
3	Power Plant Engineering	BE	Mr. R. R. Narkar	08/09/2012
4	Heat & Mass Transfer	TE	Mr. A. G. Kawade	22/09/2012
5	Theory of Machines	SE	Prof. S.D. Katekar	29/3/2013 to 6/04/2013

5.3   Student Participation and Activities

5.3.1   List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.
The active participation by a large number of students (Boys & Girls) in both sports and cultural activities has always resulted in generating a vibrant atmosphere in the campus.

Sports:
The list given below informs regarding range of sports/games (Outdoor/Indoor) facilities available within campus.

1. Playground of around 10 acres.
2. Running Track- 400 meters.
3. Kabbadi.
4. Kho-Kho.
5. Volleyball.
6. Football.
7. Cricket.
8. Badminton
9. Chess
10. Gymnasium.
11. Wrestling.
12. Athletics field events- Short put, Discus-throw, Javelin, Long jump, etc.
13. Basket-ball
14. Yoga.
15. Karate.
16. Table Tennis.

Various Activities for Students:
Sports:

The Institute level sports arranged each year by Institute.
The sport events arranged are Race-2011, Race 2012, Runn-2013, Runn-2014 in January month of every year.
Some events conducted by Institute are:

Table 5.46 Sports Activities

S N	Type of activity	No. of Participants	Duration	Details
1	**Sport**			**Games Are**
	1) Race-2011	413	23rd Jan 2011 to 26th Jan 2011	1. Kabbadi. 2. Kho-Kho. 3. Volleyball. 4. Football. 5. Cricket. 6. Badminton 7. Chess 8. Wrestling. 9. Athletics field events-Short sput, Discus-throw, Javelin, Long jump, etc. 10. Basket-ball 11. Karate. 12. Table Tennis.
	2) Race-2012	433	23rd Jan 2012 to 26th Jan 2012	
	3) Runn-2013	451	7th Jan 2013 to 9th Jan 2013	
	4) Runn-2014	513	21st Dec to 23rd 2013	
2	**Technical Events**			

				Event Names:
A) Karmatech 2013	540	30th March 2013		**Event Names:** 1. Project Exhibition 2. Treasure Hunt 3. Optical Archery 4. Truss Model making 5. Paper presentation 6. CAD WAR 7. Latholic 8. Roborace 9. Poster Presentation 10. Blind C
B) Karmatech 2015	865	14th March 2013		**Event Names:** 1. Project Exhibition 2. Search mania 3. Contraption 4. Bridge Model making 5. Paper presentation 6. Mind Spark 7. Box Cricket 8. Roborace 9. Poster Presentation
C) Dipex-2014	300 groups-(Each group 4 Members)Total 1200 members	4th March to 7th March 2014		1. Project Exhibition 2. Seminars
D) Robozest-2014	341	22nd Aug and 23rd Aug 2014		Fabrication & Programing of sine follower Robot

Cultural:

Table 5.47 Cultural Activities

S N	Name of Event	Organized by	Period activity	Year	Number of Participant
1	Engineering youth festival	Technocrat cell	6/3/15-8/3/15	2014-2015	24
2	Youth festival	Shivaji college, Barshi.	21/09/14-24/09/2014	2013-2014	42

3	Youth festival	Lokmangal Biotechnology, Wadala	21/09/2013-24/09/2013	2012-2013		13
4	Youth festival	Bhagwant college of Engineering, Barshi	4/10/2012-7/10/212	2012-13		9

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: university / State / Zonal / National / International, etc. for the previous four years.

Following table shows achievements of students in sport events at different levels in last four years:

Table 5.48 Year 2014-15

S N	Name of Student	Sports Event	University level	State level	National level	Year
1	Thite Sonali	Kabaddi	Selection	---	Participate	2015
2	Thite Sonali	100M-Run	Winner	--	--	2015
		Kabaddi	Runner-up			
		Tug of War	Runner-up			
3	Thite Monali	Kabaddi	Runner-up	-	--	2015
		Tug of War	Runner-up			
4	Zunjar Sujata	Kabaddi	Runner-up	--	--	2015
		Tug & War	Runner-up			
5	Yelgund Tejashree	Kabaddi	Runner-up	--	--	2015
		Tug & War	Runner-up			
6	Yadav Anita	Kabaddi	Runner-up	--	--	2015
		Tug & War	Runner-up			
7	Kulkarni Chitra	Kabaddi	Runner-up	--	--	2015
		Tug & War	Runner-up			
8	Yadav Shubhangi	Kabaddi	Runner-up	--	---	2015
		Tug & War	Runner-up			
9.	Sawant Ashwini	Kabaddi	Runner-up	--	--	2015
		Tug & War	Runner-up			
10	Salunkhe Sagar	4*100M,100M	Winner-up	---	---	2015
11	Gundap Anil	4*100M	Winner-up	--	---	2015
		Kabaddi	Winner-up			
12	Fugare Dattatray	4*100M	Winner-up	---	--	2015
13	Shelake Laxman	4*100M	Winner-up			2015
		Kabaddi	Winner-up	--	---	
14	Pawar	Kabaddi	Winner-up	--	--	2015

	Vaijanath					
15	Nandwadkar Dipak	Kabaddi	Winner-up	--	--	2015
16	Sule Vitthal	Kabaddi	Winner-up	--	--	2015
17	Pawar Mahesh	Kabaddi	Winner-up	---	--	2015
18	Thorat Vaibhav	Kabaddi	Winner-up			2015
19	Saste Suraj	Kabaddi	Winner-up	--	---	2015
20	Shinde Ganesh	Kabaddi	Winner-up	--	--	2015
21	Kole Kiran	Kabaddi	Winner-up	--	--	2015
22	Tule Sandip	Kabaddi	Winner-up	--	--	2015
23	Pati lNitin	Kabaddi	Winner-up	--	--	2015

Table 5.49 Year 2013-14

S N	Name of Student	Sports Event	University level	State level	National level	Year
1	Thite Sonali	Kho-kho	Selection	Winner	Participate	2014
2	Badane Geeta	Kabaddi	Participate	Winner	----	2014
3	Raut Reshma	Kabaddi	Participate	Winner	---	2014
4	Patil Rohinia	Kabbadi	Selection	Winner	-	2014
5	Yadav Sandhyrani	Kabaddi	Selection	Winner	-	2014
6	Godase Priyanka	Kabaddi	Participate	Winner	---	2014
7	Thite Sonali	400M-Run	Runner	Winner	Participate	2014
8	Gajare Sonali	4*100M	Participate	Runner	---	2014
9	Thite Monali	Kabaddi	Participate	Winner	--	2014
10	Salunkhe Sagar	4*100M,100M	Participate	Winner	---	2014
11	Misal Shahaji	Shot-put	Participate	Winner	--	2014

Table 5.49 Year 2012-13

S N	Name of Student	Sports Event	University level	State level	National level	Year
1	Yadav	Kabaddi	Selection	--	Participate	2013

	Sandhyrani					
2	Thite Sonali	Kabaddi	Selection	--	Participate	2013

Table 5.51 Year 2011-12

S N	Name of Student	Sports Event	University level	State level	National level	Year
1	Shinde Priti	Softball	Selection	--	Participate	2012
2	Talekar Vinayak	Javelin Throw	3rd	--	---	2012
3	Thakar Aniket	Base Ball	Selection	Selection	Participate	2012

Following table shows achievements of students in events at different levels in last four years:

Table 5.52 Year 2014-15

S N	Name of Student	Branch	Event Name	Participated in	Organized by	Winner or Runner
1	Miss. Pawar P. S.	CSE	Analog maker Contest 2014	Analog maker Contest 2014	KEC, Texas Instrument University, Edgate	Winner
2	Miss. Thite S. S.	CSE	Analog maker Contest 2014	Analog maker Contest 2014	KEC, Texas Instrument University, Edgate	Winner
3	Miss. Pawar P. M.	CSE	INTERACT 2k15	Paper Presentation	NIIT, Pandharpur	Winner
4	Miss. Salunkhe V. H.	CSE	INTERACT 2k15	Paper Presentation	NIIT, Pandharpur	Winner

Table 5.53 Year 2013-14

S N	Name of Student	Branch	Event Name	Participated in	Organized by	Winner or Runner
1	Ananth krishnan H.	Mech	TECHNITUDE	Project Exhibition	NBN SinhgadSolapur	Runner
2	Raut Chetan	Mech	DISCOVERY 2k13	Paper presentation	AnnashebDange COE,	Runner

					Ashta.	
3	Raut Chetan	Mech	OLYMPUS 2k13-14	Paper presentation	SKN, Korti.	Runner
4	Raut Chetan	Mech	OLYMPUS 2k13-14	Paper presentation	SVERI, Pandharpur	Runner
5	Ms. Kashid M. M.	E & TC	National Integrated Camp	Volunteer	VTU Belgaum	Volunte er
6	Ms. Kashid M. M.	E & TC	WEENGS 2k14	Project Exhibition	SKN, Korti	Runner
7	Ms. Palave S. R.	E & TC	WEENGS 2k14	Project Exhibition	SKN, Korti	Runner
8	Dhanaw ade A. H.	E & TC	WEENGS 2k14	Project Exhibition	SKN, Korti	Runner

Table 5.54 Year 2012-13

S N	Name of Student	Branch	Event Name	Participate d in	Organized by	Winne r or Runne r
1		Mech	VIBRANT N 2012	Paper presentation	SGI, Kolhapur	Runner
2	Raut Chetan	Mech	SPECTRU M 2012	Paper presentation	SKN, Korti.	Runner
3		Mech	OLYMPUS 2k12-13	Paper presentation	SVERI, Pandharpur	Runner
4	Patil M. B.	Civil	Witchar 2013	Project Exhibition	WIT, Solapur	Winner
5	Jitu Batra, Chaugul e S.	Civil	Orchid 2013	Project Exhibition	Orchid, Solapur	Winner

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

The institute has a clearly set and defined mechanism of obtaining the feedback from the students to improve the performance and quality of the institutional provisions. T&P collects feedback from the students who are employed in various organizations. The feedbacks from students are also taken regularly for each semester. Based on these data the institute takes necessary steps for improvement.

5.3.4 How does the college involve and encourage student to publish materials like catalogues, wall magazines, college magazine, and other materials? List the publications/ materials brought out by the student during the previous four academic sessions.

The college encourages its students to publish materials like college magazines, wall magazines, the student are motivated to express their talent through articles and paintings. Their creativity is given a free flight. The college magazine provides them. The institution also encourages the student Achievement in State Level and national Levels Events & Paper Presentation/Seminars/Projects etc.

Department of Electronics and Tele-Communication Engineering:-

Table 5.55

S N	Event Name	Event	Number of student Participated
1	WEENGS 2015	Paper Presentation	15 Students
2	KARMATECH 2015	Poster Presentation	1 Students
3	WEENGS 2k14	Project Exhibitions	17 Students

Department of Mechanical Engineering-

Table 5.56

S N	Event Name	Event	Number of student Participated
1	WAVES 2k15	Paper Presentation	37 Students
2	KARMATECH 2k15	Paper Presentation	6 Students
3	WEENGS 2k14	Paper Presentation	7 Students
4	OLYMPUS 2k14-15	Paper Presentation	5 Students
5	DISTA 2k15	Paper Presentation	10 Students
6	DISTA 2k15	Project Exhibition	4 Students
7	WEENGS 2015	Project Exhibition	8 Students
8	AGRO CHALLENGES 2014	Project Exhibition	9 Students

Department of Computer Science Engineering:

Table 5.57

S N	Organized by	Event	Number of student Participated
1	Feel soft	Certificate of conference Participation	8 Students
2	KEC Shelve	Project Exhibition	1 Students
3	KEC Shelve	Poster presentation	1Students
4	ABVP, Srujan	Project Exhibition (Dipex 2014)	8 Students

Department of Civil Engineering:

Table 5.58

S N	Organized by	Event	Number of student Participated
1	KEC Shelve	Paper Presentation	3Students
2	SVERI CEO P'Pur	Paper Presentation	3 Students
3	Govt. College of Engg Karad	Paper Presentation	1Students
4	SVERI CEO P'Pur	Model Making	8 Students
5	WIT Solapur	Project Exhibition	5 Students
6	SKN Korti Pandharpur	Treasure Hunt	1student
7	KEC Shelve	Poster presentation	2student

Annual Magzine Record 2013-14:

English Section:

Table 5.59

S N	Articles/ Poems	Name of student	Class Branch
1	Life is Beautiful	Snehajit A. Yalmar	B.E.(Mech)
2	Don't Worry About Tomorrow Face Today With Courage	Balaji S. Gaikwad	S.E.(Mech)
3	An Intellectual of India	Vasudevanand V. Nanche	B.E.(Mech)
4	Course of Action	Nagesh S. More	B.E.(Mech)
5	Marathi Language It's Plight in Maharashtra	Sunil S. Barge	B.E.(Mech)
6	Ultimate Explaination	ShivanandNehatrao	B.E.(CSE)
7	Full Form of Mathematics	Aparna D. Kakade	F.E. (E&TC)
8	If You Want….	Supriya Diwan	B.E.(E&TC)
9	'Formula For Obtaining Mark in Exam'	Sunil S. Barge	B.E.(Mech)
10	"Inspiring Thought's"	Sunil S. Barge	B.E.(Mech)
11	"Boys Vs Girls"	Suraj S. Koli	B.E.(Mech)
12	"Relation"	Anil A. Sarvade	B.E.(Mech)
13	Friendship	Amarja A. Pujari	S.E. (CSE)
14	"Life is Nothing But A Burning Candle"	Ravindra D. Bagul	B.E.(Mech)
15	Subjects Teach Us…..	Supriya Diwan	B.E.(E&TC)
16	Mathematics	Ashish Ohal	F.E.(Mech)
17	Be a Programmer	Sonali Pawar	B.E.(CSE)
18	"Exam and Cricket"	Shubham R. Ghandage	S.E.(CSE)

19	Don't Quit…!!!	Snehajit A. Yalmar	B.E.(Mech)
20	Zindagi….	Chaitanya Koli	B.E.(CSE)
21	Mistakes	Sonali Thite	T.E.(CSE)
22	Why Take Tension	Anil A. Sarvade	B.E.(Mech)

Technical Section:

Table 5.60

S N	Articles	Name of student	Class Branch
1	Brain –Computer Interface	Miss. Sonali Thite	T.E.(CSE)
2	Researchers Model Macroscale Plasmonic Convection to Control Fluid And Particle Motion	Mr. Snehaji A. Yalmar	B.E.(Mech)
3	Mars Mission of ISRO	Mr. Mahesh B. Mundfane	B.E.(Mech)
4	Tracheotomies Faster and Safer With New Device?	Mr. Ganesh B. More	B.E.(Mech)
5	Micro Electro-Mechanical System (MEMS)	Mr. Nitin A. Kurane	B.E.(Mech)
6	Automotive Technology : Greener Vehicles , Changing Skills	Mr. Snehajit A. Yalmar	B.E.(Mech)
7	Maintenance Science	Mr. OnkarNichal	T.E.(Mech)
8	Solar Roadways	Mr. Chetan K. Raut	S.E.(Mech)
9	Microturbine	Mr. SurajGhodake	B.E.(Mech)
10	Modern Manufacturing	Mr. RavindraD. Bagul	B.E.(Mech)
11	World Wild Web	Mr. Vishal V. patil	T.E.(CSE)
12	Automation	Mr. Dharma Dhumal	T.E.(Mech)

Annual Magzine Record 2014-15:

English Section:

Table 5.61

S N	Articles/Poems	Name of student	Class Branch
1	My Ideal Person Swami Vivekananda	Babar Sunil Sukhadeo	S.E.(Civil)
2	7 Engineers & 7 Doctors	Kalebag S.G.	F.E.(Mech)
3	Way of Engineering	PatilShivtej B.	T.E.(Mech)
4	Bharatratna Sir MokshagundamVisvesvarya	Hadmode Suryakant	S.E.(Civil)
5	What You See Is Reflection in Consciousness	Priyanka Walake	T.E.(CSE)

6	"Motivation Given By the Supreme Power"	Ashwini Chavan	B.E.(CSE)
7	From Relative to Absolute Consciousness	Rohini Chavan	S.E.(CSE)
8	A Look to the Future	Chavan Vikram	F.E.(Civil)
9	The Healing Power Of Heartfelt Prayer	Satyajeet Desai	B.E.(Mech)
10	Discover Your Special Source of Power	Pravin Deshpande	T.E.(Mech)
11	Spiritual Workplace	Jagtap Ramdas	B.E.(Mech)
12	Meaning of our National Anthem	Agalave Satish	B.E.(Civil)

Technical Section:

Table 5.62

S N	Articles	Name of student	Class Branch
1	Tarapur Atomatic Powar Station (TAPS)	Jaywant Dawane	B.E.(Mech)
2	Crazy About Screen Touch!!!	Biskite Rohini	F.E.(CSE)
3	Entanglement on Chip	Dhanaji Shindhe	B.E.(E&TC)
4	Five Future Cars Technologies that Truly Have a Chance	Nagesh Khandekar	T.E.(Mech)
5	Mechanical Slogans, Quotes or Punch Lines	Pravin Deshpande	T.E.(Mech)
6	Robotics	Dandage Atul	T.E.(Mech)
7	Anti-Lock Braking System	Ravikant Hadmode	T.E.(Mech)
8	Google Glass	Prashant Shahapure	B.E.(Mech)
9	Six Sigma	Sunil Jadhav	B.E.(Mech)
10	A Lambda Diode	Uparkar Pratik	B.E.(E&TC)
11	Engine Control Unit (ECU)	Aviraj Masal	B.E.(Mech)
12	Micro Electro-Mechanical System (MEMS)	Kiran Kole	T.E.(Mech)
13	Very Interesting and Meaningful Mathematics	Jaywant Dawane	B.E.(Mech)

5.3.5 Does the college have a student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes, College has student council. It is formed every year as per the norms of Solpaur University.

Constitution of Council:

- Constitution of students' council is defined by Solapur University.
- Principal is the Chairman of the council.
- Physical Director, NSS co-ordinator and one faculty nominated by principal are faculty members of council.
- Toppers from each class of every department are nominated members of the council.
- Besides class toppers six students members can be nominated by principal from following categories
  - One student from sports
  - One student from NSS
  - One student from cultural
  - One student from NCC
  - Two girls students
- One of these six members two must be from reserved category and two must be girl students.
- Council Secretory is elected from amongst the nominated members of council.

Activities of Council:

- Monthly meetings of council members are held.
- Academic problems are discussed in the meetings.
- Suggestions of the members are considered for development of of institute.
- Council co-ordinates events like Swachhata Abhiyan, Blood donation camp, Parents meets, Teachers day, Engineers day celebration

Student Council Record 2012-13

Table 5.63 Student Council Committee

S N	Name	Designation	Position
1	Dr. S. P. Patil	Chairman	Principal
2	Mr. S. P. Maske	Faculty Co	Physical Dorechr
3	Miss S. S. Yadav	Secretary	Student T.E.(E&TC)

Table 5.64 Student Members

S N	Name	Designation
1	Mr. P. P. Deshpande	F.E. (Mech)
2	Miss R. D. Chavan	F.E. (Comp)
3	Mr. K. M. Pasale	F.E. (Civil)
4	Miss S. G. Deshpande	F.E. (E&TC)
5	Mr. U. D. Chougule	S.E. (Mech)
6	Miss P. S. Pawar	S.E. (Comp)
7	Mr. G. M. Awatade	S.E. (Civil)

8	Miss A. D. Dune	S.E. (E&TC)
9	Mr. K. M. Jadhav	T.E. (Mech)
10	Miss M. R. Kolekar	T.E. (Comp)
11	Mr. G. G. Gaikwad	T.E. (Civil)
12	Mr. S. P. Kumbhar	B.E. (Mech)
13	Miss D. A. More	B.E. (Comp)
14	Mr. S. N. Narke	B.E. (Civil)
15	Mr. B. J. Lamkane	B.E. (E&TC)

Student Council Record 2013-14

Table 5.65 Student Council Committee

S N	Name	Designation	Position
1	Dr. S. P. Patil	Chairman	Principal
2	Mr. S. P. Maske	Faculty Co	Physical Dorechr
3	Mr. G. G. Gaikwad	Secretary	Student B.E.(Civil)

Table 5.66 Student Members

S N	Name	Designation
1	Mr. P. P. Shrikhande	F.E. (Mech)
2	Miss S.H. Jadhav	F.E. (CSE)
3	Mr. G.N. Maske	F.E. (Civil)
4	Mr. P.T. Gutukade	F.E. (E&TC)
5	Mr. P.P. Deshpande	S.E. (Mech)
6	Miss P.B. Walke	S.E. (CSE)
7	Mr. A.N. Lavate	S.E. (Civil)
8	Miss S.G. Deshpande	S.E. (E&TC)
9	Mr. U.D. Chougule	T.E. (Mech)
10	Miss P.S. Pawar	T.E. (CSE)
11	Mr. G.M. Awatade	T.E. (Civil)
12	Mr. P.V. Gaikwad	T.E.(E&TC)
13	Mr. N.A. Kurne	B.E. (Mech)
14	Miss P.G. Jagtap	B.E. (CSE)
15	Miss S.S. Yadav	B.E. (E&TC)

Student Council Record 2014-15:

Table 5.67 Student Council Committee

S N	Name	Designation	Position
1	Dr. S. P. Patil	Chairman	Principal
2	Mr. S. P. Maske	Faculty Co	Physical Dorechr
3	Mr. K. S.Salunkhe	Secretary	Student B.E.(Mech)

Table 5.68 Student Members

S N	Name	Designation
1	Mr. R.R.Patange	F.E. (Mech)
2	Miss P.A.Navale	F.E. (E&TC)
3	Mr. V.V.Khendad	F.E. (Civil)
4	Miss M.B.Nangare	F.E (CSE)
5	Mr. D.S.Jadgav	S.E. (Mech)
6	Miss C.S.Kulkarni	S.E. (CSE)
7	Mr. A.J.Lonkar	S.E. (Civil)
8	Miss G.R.Shirse	S.E. (E&TC)
9	Mr. P.P.Deshpande	T.E. (Mech)
10	Miss M.H Hasure	T.E. (CSE)
11	Mr. G.M. Awatade	T.E. (Civil)
12	Miss S.G.Deshpande	T.E.(E&TC)
13	Mr. U.D.Chougule	B.E. (Mech)
14	Miss P.S.Pawar	B.E. (CSE)
15	Miss H.P.Kathamwar	B.E. (E&TC)
16	Mr.A.G.More	B.E(Civil)

5.3.6-Give details of various academic and administrative bodies that have student representatives on them.

1) Academic Bodies:

Department of Mechanical Engineering

➢ **MESA (Mechanical Engineering Students Association):**

To enhance the technical skill as well as for the overall development of the students, department as well our student's association MESA (Mechanical Engineering Students Association) continuously conducts the programs. In this academic year MESA organized technical programs such as State Level Technical Event Karmatech 2K15, Work shop on "Robozest" in association with IIT Delhi Paper Forums as well as Celebrating Teacher Day.

Department of Computer Science and Engineering

➢ **PARAM ACSES (PARAM Association of Computer Science And Engineering Students):**

To enhance the technical skills as well as for the overall development of the students, our students' association **PARAM ACSES** continuously conducts the programs. In this academic year we organized technical as well as aptitude skill development programs in which students they delivered the lectures on aptitude and conducted the tests which are useful for campus placements.

Also for academic development students make the collection of notes into the departmental library. These notes are very useful for the juniors.

Department of Electronics and Tele-Communication Engineering

➢ **ETSA (Electronics & Telecommunication Students Association):**

To enhance the technical skill as well as for the overall development of the students, department as well our student's association **ETSA** (Electronics & Telecommunication Students Association) continuously conducts the programs. In this academic year ETSA organized technical as well as social programs such as Blood donation camp, PCB design workshop; Resume writing, seminar on recent trends in Electronics engineering, etc

Department of Civil Engineering

➢ **FORCE (Federation of Regal Civil Engineers):**

Federation of Regal Civil Engineers performed the following activities during 15th Sept 2013 on Engineer's day occasion.

1) Poster Presentation
2) Quiz Competition/ Debate

Federation of civil engineers organized two days Workshop in association Robo Magic during Sept 214.

Table 5.69

S N	Academic	Name Of Student representatives		
		Year (2012-13)	Year (2013-14)	Year (2014-15)
1	FORCE	Mr. Batra Jitu	Mr. Gaurav Gaikwad	Mr. More Abhiman
2	MESA (Mechanical Engineering Student Association)	Mr. Kushal khedekar	Mr. Niteen Kurne	Mr .Udhaysinh Chaughule
3	PARAM ACSES (PARAM Association of Computer Science &Engineering Student)	Mr. Shrikant Rakshe	Mr. Mahesh Vyavhare	Mr. Mahesh Dhumal
4	ETSA (Electronics & Telecommunication Student Association)	Mr. Lamkane Babarao Jagnath	Miss.Yadhav Sandhyarani s.	Mr. Jadhav Vinoba Ganpat

Administrative Bodies:

<p style="text-align:center">Table 5.70</p>

S N	Administrative Bodies	Student representatives
1	Anti- ragging Committee	1) Dhere Manjusha M.
2	Anti-Sexual Harassment Prohibitory Committee	1) Kodak Sima 2) More Dipali 3) Koadra Sunil
3	Women's Development Committee	1) YadavShandhyarani
4	Student Council Committee	1) S.S. Yadav 2) G.G. Gaikwad 3) K. S. Shalunkhe

5.3.7 How does the institute network and collaborate with the Alumni and former faculty of the institution?

- The institute has an online group on social networking sites like whatsApp and face book where former faculty of the institute stay connected with the institute.
- Former faculty is invited as guest faculty.
- Alumni Association has contacts with alumni members.
- Alumni meet is arranged regulary where experiences are shared with junior students.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional vision and leadership

6.1.1 State the vision and mission of the institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Vision:

To make outstanding academic complex in order to achieve excellence in the field of Engineering and Technology.

Mission:
- To empower the faculty and aspiring engineering students to explore the world of technology.
- To mould the engineering graduate who will nourish the ever-changing needs of society and industry
- To promote the collaborative research and consultancy assignments.

Quality Policy:

We are committed to-
- Impart latest knowledge in engineering field to the students.
- Appoint qualified staff and improve their knowledge and skills.
- Provide competent engineers to the industry and society.
- Make responsible, peace loving and knowledgeable citizens of India by inculcating professional and ethical values.

The distinctive characteristics of the Institute are defined in the mission are as follows-

Our trust 'Shri Pandurang Pratishtshan' is led by Hon. Shri Prashantrao Paricharak, under the most able guidance of Hon. Shri Sudhakarpant Paricharak, with only motto "Education to all". The chairman and trustees of trust are very ambitious as they wish to bring a new era of technical and professional education in & around Pandharpur. With this objective and broad mission trust has established the institute in 2009.

Actually, our trust have distinctive characteristics in the terms of addressing the needs of society and students; that's why our institute is committed to provide quality technical education with a goal to produce highly skilled, trained competent & confident technocrats and professionals, who can keep pace with global competition.

As well as especially, to promote technical education at rural area so that students in rural area can take benefit of technical education and to provide excellent engineers to industries and generate employments.

As per the aspect of institution's traditions and value orientations college has kept a keen interest and interactions with stakeholders ie. Students, parents,

alumni and industria lists etc. Receive their well support and developed a strong relationship with them for the great future.

6.1.2 What is the role of top Management, Principal, HODS, Faculty, for design and implementation of its quality policy and plans?)

The top management, Principal, HODs and other faculty members of the college works in a coordinated manner towards the successful achievement of the long term and short term goals of the college. Indeed, adhere to vision, mission of institute and implementing the Quality policy, an action plans our resources are well committed.

1) Role of Top Management:

Our management is highly committed and dedicated to maintain the contemporary requirements to higher education**.** The top management plays the vital role in implementing the Quality policy and action plan.

- To improve education quality, an essential factors by developing various policies which are important and concerned to Quality in administration, academics and activities.
- To maintain the conducive environment for enhancing the educational content and setting up the internal procedure to achieve quality performance of the college in accordance with the top management perspective.
- Initiating agreement on goals and measures. Monitor the improvements through objective measurements that comes throughout the organization.
- By taking care of suggestions/interactions with various governing bodies like Board of governing bodies e.g. Local management committee, by interacting with faculty and parents.
- The Management ensures a healthy encouraging, participative, transparent environment for quality education.
- The Management always encourages Principal and the faculties to visit various institutes, industries for their enhancement in practical knowledge.
- The management provides required infrastructure for proper functioning of the institute.

   In nut shell, for fulfilling the vision and mission of the college and enhancing better education quality policy our college management is well committed to the required institute policies.

2) Role of Principal:

   The management gives sufficient freedom to Principal in order to fulfill the vision and mission of the college. Hence; after Management Principal plays a vital role in Quality policy system.

- Principal holds the ultimate responsibility of coordinating the academic and administrative functions of the college.
- Principal is empowered to take all necessary steps and guidelines to maintain the atmosphere conductive for enhancing the educational content and setting

up to internal procedure to achieve quality performance of the college in accordance with the top management.

- The Principal wields the power with regards to all academic and administrative matters.
- The Principal is active in deciding the quality policy and making the action plans.
- The Principal intends to develop and ensure effective conduction of educational programs and promotes the improvements of teaching learning in the college.
- The Principal's mission is to enhance the standards of education by providing an outstanding, Creative, participative, learning environment that is consistent with the core values of organization.
- The Principal supervises the system and processes through student's feedback mechanism, interactions with HODs, and faulties through meetings, interactions with parents through parants meet, etc.
- The Principal plays very important role in formulation of various committees like Faulty development, student's counecil, cultural committee, industry institute interactions, earn and learn schemes etc.
- The Principal always encourages staff and students for various workshops, technical programs, throughout the year for their quality enhancement.

3) Role of HODs:

The role of HOD in each department is very remarkable. The responsibilities including the areas of Student's Performance and other activities are as follows -

- To plan organize, and monitor execution of the academic activities according to the academic calendar.
- To motivate faculties and students for research work. As well as to prepare research policies and budget required for these policies of the Institute.
- Encourage and facilitate students as well as younger faculties in extracurricular activities.
- To organize National seminar/conference/workshop in the department.
- To conduct the Departmental meetings regularly for smooth running of work implementation.
- Ensure departmental laboratories and library is used optimally and keeps clean properly.
- Observe and analyze faculty's teaching and provide them necessary feedback for improving their effectiveness. Check out the academic diary, course work regularly.
- Encourage and facilitate staff and students for necessary industrial visits, attend seminar, Workshop and do projects time to time.
- Occasionally HOD plays the important role of 'Intermediator' between faculty and Principal, as well as principal and students.

4) Role of Faculty:

The faculty plays a major role in the implementation of the quality policy. All faculties share their experience and expertise while implementing the quality policy. Their role is as follows.

- To plan and deliver academics as per the quality policy.
- To fulfill responsibilities in three areas namely teaching, research and administrative activities like examinations related and course/program related work.
- Faculties have to contribute in various committees formed by the Principal. Faculties have to cooperate with each other so that the outcome is effective implementation of the quality policy.
- To develop quality measures for the evaluation of various processes.
- To counsel the students about quality in various activities.
- To take initiative to associate themselves with eminent research organizations, academicians, professional bodies and industries.
- To develop themselves as role model in teaching. Senior faculty should be role model for Jr. faculty so upgradation with all sense is very important.

6.1.3 What is the involvement of the leadership in ensuring?

- The policy statement and action plans for fulfillment of the stated mission.
- Formulation of action plans for all operations and in operations of the scheme into the institutional strategic plan.
- Interactions with stakeholders
- Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders.
- Reinforcing the culture.
- Champion the organizational change**.**

Following is the list of activities of the leadership showing its concern and involvement in-

Ensuring the policy statement and action plans for fulfillment of the stated mission:

The leadership of the college strives for achieving the quality policy of the college by maintaining clarity in authority and delegation. Our college has a well framework in perspective of leadership and quality policy system.

The management has framed the plans for the fulfillment of the mission statement by providing and facilitating the required infrastructure and well qualified human resources in technical field to India and world. In spite of all, the leadership strives for making responsible, peace loving and knowledgeable citizens of India.

Formulation of action plans for all operations and in operations of the scheme into the institutional strategic plan

The management through the governing body and principal frames the broad action plans for the fulfillment of vision and mission the institute. In view of ever increasing new age programs and changing skills in the global context, our

college has made various strategic plans. While formulating the action plans, attention is given on following aspects-

- The academic plan, phases of teaching, examination programs etc are prepared and executed time by time.
- The principal conducts the meeting with HODs Class coordinators regularly for the review of action plan and major policy decisions.
- The management maintains the quality assessment and reviews the strategic plans through the various committees for accomplishment of institutional strategic plans

Interactions with stakeholders-

Leadership is actively ensured in the 'interaction with stakeholders'. All over the year the leadership processes feedback, guidance, opinions, suggestions from experts, and stakeholders through parant's meet, industrialists, trusty, alumni etc.In this respect the principal plays vital role in maintaining harmonious relations and resolving the conflicts at all level through the stakeholder's involvement.

Industry Institute interaction- is being considered as important tool in the teaching learning process.MOU have been signed with different industries for giving training as per the requirements.

Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders.

In this respect the principal plays vital role maintaining harmonious relations and resolving the conflicts at all level through the stakeholder's involvement.

Industry Institute interaction- is being considered as important tool in the teaching learning process.MOU have been signed with different industries for giving training as per requirements.

College maintains a continuous communication with the stakeholders. The management fully supports any new plans for the benefits of its staff for the culture of excellence. The management, principal, the various Heads of Departments, Sr. faculties review the progress of continuous improvement. In order to improve performance of students, internal assessment methodology is reviewed and modifications are implemented. As well as they interact on regular basis with stakeholders during the staff meetings, student representative ie. student council, parent teacher meetings etc. For support in terms of policy and planning through need analysis, search inputs and consultations, with the stake holders.

Reinforcing the culture-striving for excellence is an important part of professionalism. It involves quality consciousness in each and every sphere. Students are motivated and encouraged to be self driven towards achieving organizational excellence. Principal encourages students by giving academic awards to meritorious students and university rankers.

Principal takes reviews of the result analysis in every semester and suggests corrective actions based on it like practice sessions, Backlog sessions, and night studies.

In the concern of financial and non financial support, encouragement and motivation for participating in R&D activities, projects and proposal our management and principal support well.

Champion the organization change-

Involvement of the leadership in ensuring Champion organization change is a core part of our college .With the changing times and environment our college is making required changes in its structure and policies.

Following is the list of activities of leadership showing its involvement in organizational change-

- Providing training to faculties through faculty development program.
- Our college is always open for change in policy It looks toward students focus on extracurricular activities and emphasis on sharing of knowledge and learning
- The Principal encourages staff members and students to attend seminars, conferences, and workshops for their better enhancement.
    1) By sending faculties for industrial training to get versed with current technology and practical applications.
    2) By introducing new technology, LCD/OHP Projectors, digital board in the classrooms, also placed as main change in the college.
- MOU with industry and various pioneer companies.
- The leadership organizes occasional meeting of the staff members having collaboration with management. While as leadership takes the staff into confidence before initiating the organizational change.

6.1.4 What are the procedures adopted by institution to monitor and evaluate polices and plans of the institutions for effective implementation and improvement from time to time?

There are many procedures adopted by the management for evaluating the policies plans of the institution and taken for implementation for time to time.

The meeting of governing council is conducted regularly therein development and budgets are reviewed. As well as in the meeting of principal with HODs and all staff members the academic plan, other policies and plans is decided and reviewed. Prior to the start of the academic year, Design and implementation of academic calendar is done properly, so that institute level and department level activities can be streamlined.

Faculty meetings also conducted in every department frequently to convey plans and instructions for implementation of necessary work. Evaluation of the progress of various activities through internal/external auditing, receiving feedback from the concerned staff and coordinators, frequent feedback from students.

College has made a well provision regarding the student's feedback. Through suggestion box, principal reviews the cases, and implements well on the solutions

level provisional and permanently. With the help of students council and other representatives various plan, policies and are reviewed. And other provisions are decided upon the base of their views, opinions, and expectations.

Regarding the student's improvement in the view of quality policy 'Result analysis plays important role in a document of result in terms of: Percentage passed, ATKT, Distinction, first class or second class with toppers all result's data is reviewed. Again subject wise result with the name of subject Incharge, percentage of the concern subject with all view is also analyzed on regular basis.

The principal meeting with HODS and class coordinators are conducted periodically to monitor all academic and student related activities.

6.1.5 Give details of the academic leadership provided by the faculty the top management?

The top management is always supportive to academic and academic works in the college. In this respect strong leadership is required for the institute progress towards achieving the quality policy and for it from time to time, the top management, principal, HODS and all faculties' collective role is proved as a very effective at their levels.

Trust- The trust is led by Sri Prashantrao Paricharak, under the most guidance of Hon.shri Sudhakarpant Paricharak, with only motto ''Education for all''. The chairman and trustees of Shri Pandurang Pratishtshan are very ambitious and wish to bring a new era of technical and professional education in and around Pandharpur. With this objective and strategic planning trust has established polytechnic college and Karmayogi Engineering College in 2008 and 2009 respectively.

As per the aspect of institutes strategic planning, college has kept sustenance by keeping a keen interest and interactions with shareholders ie. Student's, parents, alumni's expertise, industrialists etc. The institute has held well support and developed the strong relationship with them.

Principal- The principal plays a vital role in performing the academic and administrative role in the college management. He is empowered for executing policies maintaining the academic atmosphere in the college. Under the leadership of principal, coordinators of various committees, the work has been streamlined; as they are engaged in assigning, delegating, coordinating, communicating responsibilities to the concern faculties as per the established system.

HODS & Faculties -HODs of all departments have given specific responsibilities and power regarding the executing polices in their each department. HODs ensure the specific role and responsibilities of their staff of department, for smooth running of strategic policy. Some staff members also assigned with various kind of particular task and responsibilities that are allotted to them with taking meetings, reviews, sometime through official letters. In this way at various levels academic leadership is provided to the faculty by the top management.

6.1.6 How does the college groom leadership at various levels?
Our college is grooming leadership at various levels, with academic and administrative responsibilities. In order to inculcate the culture of leadership at

various levels in the college, several committees have been developed who takes decision at operational level. At management level-The management has adopted a broad view for coordinating the academic administrative of the college. Hence some committees are firmed providing different levels of leadership tasks and responsibilities to the faculties.

S N	Committees/Activities	Coordinator	Dept.	Report to
1	Internal Quality Assurance Cell(IQSC)	Dr. Patil S.P.	E&TC	Principal
2	Accreditation (NBA/NAAC)	Joshi A.A.	E&TC	Principal
3	Library advisory committee	Mrs.Palekar A.P.	Lib.	Principal
4	Grievance Redressal Committee	Dr. Deshpande H. D.	-	Principal
5	Women's Grievance committee	Ms. Mulani T.T.	F.E.	Principal
6	Anti ragging Committee	Dr.Patil S.P.	E&TC	Principal
7	Anti Sexual Harassment committee	Ms. Palekar A.P.	Lib.	Principal
8	Backward class student council	Dr. Patil S.P.	E&TC	Principal
9	Student council	Babar A.T.	Civil	Principal
10	Alumni Association	Shivpuje D.B.	E&TC	Principal
11	ISTE student Chapter	Shivpuje D.B.	E&TC	Principal
12	National Service Scheme (NSS)	Savekar S.J.	F.E	Principal
13	Annual Magazine Committee	Jagtap S.S.	Mech	Principal
14	Co-curricular /Extracurricular /cultural activities	Pampatwar G.S.	F.E.	Principal
15	Student counseling/Mentoring	Dr. Patil S. S.	-	Principal
16	SUS Exam cell (University)	Jagtap V.L.	Mech	Principal
17	Engineering Research and development	Kale S.A.	Mech	Principal
18	**Departmental Student's association** Mech-'MESA' E&TC-'ETSA' CSE-'PARAM ACCES' Civil-'FORCE**'**	**Staff/ coordinators** Bhosale G.H Parkhe B.A. Bhosale D.V. Upase S.S.	Mech E&TC CSE CIVIL	

As per the part of grooming leadership, our college is very supportive with the coordinative manner. At principal level -Principal   motivates the faculties to conduct co curricular activities like seminars, workshop, field tours, industrial visits, various projects, updating laboratories.

The principal encourages transparency in decision making and implementation. Principal review and relegates class coordinators, students representatives, and different committee's representatives with their certain roles and responsibilities.

HOD - there is one HOD for each department Civil, Mech, Electronics and telecommunication engineering, Computer science and first year engineering respectively. Their roles and responsibilities and authority delegated grooming the leadership, properly.

Faculties /students representatives-

We believe in 'Teaching is a noble job'. The teacher is supposed to possess all noble qualities /value system. So on this basis, role model is distinguished therefore. Indeed, a role model serves the purpose of leader that he/she inspires a person to follow the virtues /work. So for regarding and in calculating social and ethical values in own self, the teacher can be a role model to the students. So, here also leadership grooms well.

HODs and Faculties inspire student for doing technical and non technical various activities. Therefore each department students firms their club/associations ie. Civil engineering– FORCE, Mechanical engineering– MESA, E&TC- ETSA, Computer science- CESA, etc

Some Students are representatives and members of student council committee, cultural committees, spirit- a wall magazine committee, sport committee etc. They also help to groom leadership among themselves various activities.

Training and placement officer:

Training and placement officer plays a vital role in the sense of leadership .He upholds the high responsibility for scouting for perceptive employees, inviting and persuading them for campus visit and recruitment .The TPO looks after the whole thing of marketability of the college campus; thus by giving training, making them selected for various jobs in the vast industries. In this concern, our college has called over various many expertise, Guest faculties, and company leaders etc for the fulfillment of grooming leadership of forthcoming engineers . Making students capable and worthy of employment.

In nut shell the institute or a management provides a good leadership to faculties through various levels properly.

6.1.7 How does the college delegates authority and provides operational autonomy to the departments/units of the institution and work towards decentralized governance system?

The management, Principal, HODS, Body of governance (BOG) etc plays the vital role of the good mechanism at the decentralized levels. Before the beginning or end of academic year HOD S meeting for annual operation plan (AOP) is conveyed by the management and principal.

All the systems are effectively decentralized foe better governance and performance. The major decisions which have a bearing on the function and the goal of college are thoroughly in the governing council. The decision are taken, passed on the executive committee comprising secretary, treasurer and director of the institution. Afterwards BOG authorizes suitable guidelines for planning and monitoring board of the college to find the ways and means for implementing the decision taken. Hence further system runs smoothly under the authority of Principal, HOD, along with staff members actively for govern and administration.

HOD System at the departmental level- In the functioning of the college, HOD of various departments also placed in the system. Their roles and responsibilities and authority delegated regarding sanction of the leaves to students and staff, as well to amount the expenditure, advance and purchases permissions, to move fixed program or any activity's circular. HOD conducts departmental meetings in which important aspects of requirements such as equipment, laboratory material books, journals, and others are discussed.

Class coordinator- In our college each class is appointed a faculty as a class coordinator (C.C.)He /she has been delegated a role and authority to maintain the particular task of the class. Indeed he takes care of streamlines of lectures.
- He/she maintains the all record of students of that class by sending letters to parents of students with details of absentee, test marks.
- He /she does the work of daily phone calling to parents of absent students.
- He/she sanctions the one day leave, stationary distribution to the class etc.

Proctor teacher- Actually**,** for the sake of students welfare in an academics, each teacher is allotted a batch of 15 students. Procter teacher looks after the batch by conducting activities like group discussions, presentations, English vocabulary practices etc. Proctor teacher strives for interaction with the students in problem solution manner, in a proctor session.

Various committees- Various committees are firmed for academic and co curricular activities to be conducted in the course of academic year: as described in above college committee's chart. Academic responsibilities are fairly divided among all the staff members. This ensures transparency in polices.

In short with a broad view for coordinating the academic administrative of the college, all systems from the management to faculty work with their roles and responsibilities towards the well governance.

6.1.8 Does your college promote a culture of participative management? If 'yes', indicate the levels of participative management.
Yes, the college promotes the culture of participative management. The management is always open to discuss with the teaching and non teaching staff which, in turn, encourages the involvement of the staff for the improvement of effectiveness and efficiency and efficiency of the institutional process. The policies are well defined by the college authorities and well to all concerned, to maintain the participative involvement. As well as a decentralized functioning mechanism, empower the departments (HODs) and staff members with great and crucial level of flexibility in academic administration, and helps the faculties in decision making, maintaining the work policy.

Participative management is promoted by constituting different committees with representations from staff and students, making the committees to function, with sure that it is not left out of the decision making process. In this way, we are well promoted with a culture of participative management.

Addition to this, top management and principal review the suggestions on the basis of feedback, which comes through various meetings ie. Parent's meet, alumni meet, industrialist & expertise meet, etc. Feedback is analyzed in the term of improvement policy and communicated to concerned. Thus, the college promotes a well culture of participative management, indeed.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes, our institute has formally stated quality policy. It is developed by taking feedback from institute student, faculties, parents, alumni and prospect industry. Quality policy is driven and deployed by IQAC cell. These policy are reviewed periodically based on feedback received from stakeholders.

Quality Policy:

We are committed to-

- Impart latest knowledge in engineering field to the students.
- Appoint qualified staff and improve their knowledge and skills.
- Provide competent engineers to the industry and society.
- Make responsible, peace loving and knowledgeable citizens of India by inculcating professional and ethical values.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

The institute has formulated perspective plans for development in following areas.

- New infrastructure
- Academic achievements/ new programs
- New initiatives
- R and D

The perspective plans are formulated by the top management, Principal, HODs and IQAC with an objective of progressing towards realization of the vision. Also, the inputs from stakeholders and vision of the ever changing global scenario are considered for the inclusion. The plans are reviewed periodically throughout the year.

Perspective plan about new infrastructures:

2012-13

- Expansion of the main building-construction on the third floor.

2014-15

- Staff cabins.
- Central computing Facility.

2015-16

- Mess building Renovation.
- Bank extension counter with ATM.
- Fencing wall for girl's hostel.
- Entry road to college with pavement.

2016-17

- Girls hostel Construction.
- Campus road.
- Replacing streetlight with solar.
- Furniture for central computing lab.
- Interior for department seminar hall.

Perspective plan for Academic new programs:

2016-17
- To start PG program E&TC and Mechanical.

Perspective plan for new initiatives:

2013-14
- IQAC establishment.

2014-15
- To apply for NAAC accreditation.
- Wi-fi set up.
- Subscription to e- journals
  - ASTM Digital Library.
  - J-Gate-Engineering & Technology.
  - Elsevier Science Direct e-journal.
  - Springer Mechanical Engineering Collection.
- CCTV system.
- Up gradation of UPS system old capacity with new.

2016-17
- Enterprise Resource Planning (ERP) software installation.

Perspective plan R&D:
2012-13

- Motivate student to participate in research activities.
- Karamtech expo project cum paper presentation.
- Financially support for presenting national and international research paper for student.
- Allied project.

2013-14

- Dipex 2014 project cum exhibition computation.
- To increase industry collaboration.
- To undertake minor and major research projects from various funding agencies.

2014-15

- Student and staff membership in professional societies.
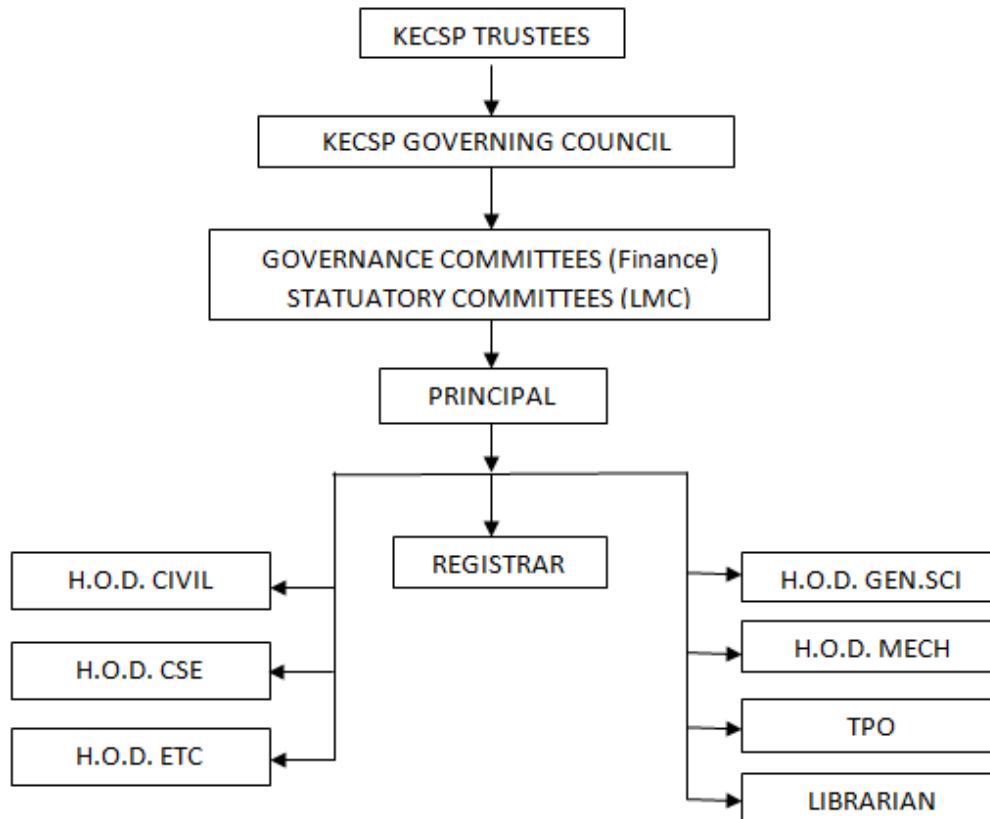- Inter disciplinarily research.

2016-17

- To setup research center.

6.2.3 Describe the internal organizational structure and decision making processes.

Internal organization structure is as follows:

ORGANIZATION STRUCTURE FOR KARMAYOGI ENGINEERING COLLEGE SHELVE, PANDHARPUR.

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                        ┌──────────────────┐
                        │  KECSP TRUSTEES  │
                        └──────────────────┘
                                 │
                                 ▼
                    ┌──────────────────────────┐
                    │ KECSP GOVERNING COUNCIL  │
                    └──────────────────────────┘
                                 │
                                 ▼
              ┌────────────────────────────────────┐
              │ GOVERNANCE COMMITTEES (Finance)    │
              │ STATUATORY COMMITTEES (LMC)        │
              └────────────────────────────────────┘
                                 │
                                 ▼
                        ┌──────────────┐
                        │  PRINCIPAL   │
                        └──────────────┘
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H.O.D. CIVIL		REGISTRAR		H.O.D. GEN.SCI
H.O.D. CSE				H.O.D. MECH
H.O.D. ETC				TPO
				LIBRARIAN

The 'Karmayogi Engineering College, Shelve Pandharpur' is established in 2009 by the Top Management body. KECSP Governing Council consists of 13 members as per the AICTE guidelines and it guides the trust in planning institute policies.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following
- **Teaching and Learning**
- **Research and Development**
- **Community engagement**
- **Human resource management**
- **Industry interaction**

For Quality improvement in Teaching and Learning:

- As per the quality improvement strategy, the Institute plans the academic activities before the commencement of the term/ semester. Academic calendar ensures perfect planning of institutional /departmental activities.
- The institute uses learner-centric education approach through the use of appropriate methodologies like group discussions, projects, presentations, field work, surveys, seminars, experiments and practical sessions, guest lecturers etc.
- The institute encourages modification of the labs according to the revised syllabus of university. Faculties of our college prepare teaching plan, laboratory plan, and lab manual and conduct unit tests regularly for quality improvement.
- The method of Continuous Assessment Sheet (CAS) is used for regular internal evaluation of students. CAS contains all necessary details of the students' academic performance.
- As per Students' feedback analysis, individual faculty incorporates proper changes in the teaching process.
- Central library has on line classroom videos - e-journals which are used by students and staff of the Institute.

For Quality improvement in Research and Development:
- For effective contribution of the faculty in the R and D, enhancement of faculty profile in academic area is essential. In this view, the faculty is encouraged to
    - Register for their PG and PhDs as a part of qualification improvement program (QIP).
    - Engaging Faculty Development Programs (FDP)
    - Attend various conferences at national and international level
- Actively participate in different professional bodies such as Indian Society for Technical Education (ISTE), MIE etc.
- For direct contribution of faculty members to research, institute provides facilities like- digital library facility, modern equipment and labs.
- Seminars are organized by the Departments to attract researchers of eminence to visit the campus and interact with teachers and students. While organizing workshops, the focus is on imparting advanced technology, tools and techniques and research areas in the subject domain of the progamme. Such programs are funded by the Institute.
- Publications by faculty in different International and National refereed journals, books, articles in edited volumes, seminar proceedings etc. is encouraged.
- Internet, LAN and journal and e-journal subscription is made available to the Principal investigator by the institution to facilitate smooth progress and implementation of research schemes/projects.

For Quality improvement in Community Engagement:
- Institute conducts the community programs through NSS.

- On the occasion of national Independence Day we arrange Blood donation Camp.
- The college promotes mass tree plantations in and around the college.
- For primary teachers awareness about computer literacy drive.
- Social charity towards "Prabha Hira pratishthan, Palwai", foundation for orphanages children's.
- Pandharpur Swachata Abhiyan.

For Quality improvement in Human Resource Management:

- The institute uses evaluation methods for teaching / learning of the faculty.
- The institute has definite strategies and implements them while recruiting and retaining faculty and other staff (As per the AICTE norms).
- Employing visiting faculty as per the necessity.
- The institute supports and ensures the professional development of the faculty through budget allocation for staff development. It sponsors the faculty for paper presentation in conference, participation in seminars, conferences, workshops etc. The institute encourages research, membership of local, state, national and international professional associations.
- The institute organizes staff development programs for skill up gradation and training of the staff.

For Quality improvement in Industry Interaction:

- Adopting exchange of knowledge between industries and institute by inviting resource person for workshop.
- It conducts regular meets with industries to get suggestions for curriculum and to offer the additional programs for students at the Institute level.
- It encourages faculty for industrial training.
- It organizes student's visits to industry.
- Institute encourages the students to take industry sponsored projects.
- Signing MOUs with industry.
- Involves industry experts in curriculum design additional course designed by institute.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the Top Management and the stakeholders, to review the activities of the institution?
The Principal collects the feedback from all HODs at the time of HOD Meeting. HOD meetings are held every week. Also, Principal receives the feedback in terms of suggestions, which generally suggested by students in suggestion box regularly. Principal forwards this feedback to the management. Upon receipt of feedback, management asks the principal to take an appropriate action according to the status of feedback. And there by principal informs concerned HOD about it.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The staff is involved in planning and implementation of all Institutional processes. Some elements of the processes need to be worked upon time to time, to ensure continuous improvement in the effectiveness and efficiency of the processes. To encourage the staff for this,

- Management sponsors staff for STTPs, conferences, workshop and orientation programs.
- Providing special leaves for higher studies and attending courses.
- Management involves the staff members in various activities and decision making process related to the extra-curricular and administrative development of the college.
- The staff members are involved as representatives/ members in various committees such as Anti Raging, Sexual Harassment and Grievance redressal Committee etc.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The following resolution has been made by the Management council in the last year and the same have been implemented:-

- Facilities and maintenance in hostel.
- To sanction advertisement for vacant post.
- Purchasing of book in library due to syllabus change and new subject self learning for TE all branches.
- To arrange Karmatech as a national level event.
- Decided English as communication medium in college campus.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the Institution in obtaining autonomy?

Yes, Solpaur University, Soalpur provides a provision to grant autonomy to an affiliated institute. Our institute is not seeking for autonomy.

6.2.9 How does the Institution ensure that grievances/complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

- For promoting better stakeholder relationship the institution has set up a grievance redressal cell to attend each and every complaint. The institution immediately addresses the problem and solves effectively.
- The suggestions are collected from suggestion box and compiled by the grievance redressal cell. Accordingly, inputs are given to related section of the institution to take the action there upon.
  e.g. – 1. Drinking water problem.
  2. To avail play ground and tools to the girls.

6.2.10. During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No, there is no such court case field by or against the institution.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes, the college has a mechanism for analyzing student feedback on institutional performance. We have got responses and opinion of the student on various process, system and Infrastructure through the following different feedback.

1. Entry level feedback.
2. Library feedback.
3. Classroom feedback.
4. Exit feedback.
   - In addition to this, suggestion box has kept in the college for collecting the student's feedback on institutional performance.
   - Student feedback as well as their queries and complaints are solved regularly. We collect student feedback from each class first year to last year in each semester as well as exit student feedback.
   - The feedback is conveyed to concerned faculty and the top management for necessary actions for improvement. Corrective measures are taken by college time to time.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and nonteaching staff?
- The institute provides sponsorship to the faculties for perusing higher studies.
- The institute deputes the faculties to attend workshops, conferences, seminars etc.
- The institute organizes in house faculty development programs, administrative skills development programs, value based programs, and teaching-learning courses to enhance professionalism.
- The institute assists and encourages faculties to be a member of local, national, international, professional bodies and societies.
- The institute motivates the faculties for research and development by providing digital library and labs.
- To improve the teaching skills, the faculties are encouraged to adopt learner centric education approach viz. better academic planning, use of modern teaching learning aids, application of ICT resources.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employee for the roles and responsibilities they perform?

- For personality development, teaching skill development and technical up gradation, the Institute organizes training programs.
- The institute deputes the faculty for training organized by other organizations. For example:- refresher courses, orientation programs, summer/winter short term schools (SWSS), etc.
- The institute telecasts webinars based on spoken tutorials to create awareness about recent trends and developments in new areas.
- The institute invites resource persons such as industrialists, researchers and academicians for interactions with the staff.
- The institute encourages the senior faculty to motivate the junior faculty in following ways-
    1. Giving essential inputs.
    2. Providing personal training on lecture/ lab work delivery/seminar-project guiding.
    3. Counseling on career advancement.
    4. Involving them in deep discussions on topics in the syllabus.
- Creating an open atmosphere for personal growth and to clarify the doubts, concepts and difficulties.
- Conducting orientation program about the policies and procedures prevailing in the institution.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The performance appraisal system consists of self-appraisal and appraisal by reviewing officer.

1. Performance appraisal system of the faculty:

Annual self-assessment for the performance based appraisal system is adopted as per the UGC notification 30th June2010 approved by Govt. Of Maharashtra state vides GR dated 15th Feb 2011. Hence it is ensured that information on multiple activities is appropriately captured. The information includes:-

Part A: General information and academic background, courses/STTP/SBP attended during the year.

Part B: Academic performance information; Teaching, learning and evaluation related activities, Co-curricular, professional development related activities. Research, publication and academic contributions.

Part C: Other relevant information

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and major decisions taken? How are they communicated to the appropriate stakeholder?

For review of performance appraisal:

The Internal quality assurance cell (IQAC) forms are submitted to the review officer.

The outcome: The best part of the IQAC is that each faculty becomes aware of self-weaknesses and tries to improve own self in those areas so that he/she can score better in the next year.

Major decision taken: The score/ category obtained in the IQAC contribute to the decision about faculty appreciation. Faculty with low score is personally counseled by the Principal.

Communication with stakeholders: IQAC score of faculty is available to stakeholders as per their requirement/ request.

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such scheme in the last 4 years?

Welfare schemes available for teaching and non-teaching staff:

- Faculty is deputed for PG and Ph.D. program.
- Advance payment to staff.
- Immediate medical aid to accident affected staff.
- Uniforms to class IV staff.
- First aid unit in every department.

6.3.6 What are the measures taken by the institution for attracting and retaining eminent faculty?

- Experienced and qualified faculty is appointed as and when it is identified.
- Increments are provided to all faculties on time.
- The institute provides functional office infrastructure and other space to carry out their work effectively.
- For retaining the eminent faculty, budget is allocated for staff development, advanced study, research, participation in seminars, conferences, workshops etc.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

- In addition to internal and statutory audit, continuous review is taken in the meeting of HODs conducted by the Principal.
- The effective and efficient use of available financial resources is monitored through the budget.
- The lab In-charge of each and every department prepares his/her yearly budget requirements and forward to Head of department. Then the HOD in consultation with faculty and lab In-charge finalizes his/her yearly budget.
- Such department wise budgets are put forth in the meeting of the Principal and HODs.
- Taking into consideration all department wise budgets, college level budget is prepared. This budget is then put in front of the Management committee.
- At the time of delivery of articles by the vendors, the quality of the materials are checked and verified against the order copy and received by the

departments. Further, the details of all the materials / articles are entered in dead stock register and stock is maintained.

▪ Income/expenditure is closely monitored by the account office.
▪ Payments are made if authorized by the Principal. Payments are made either through cheque or drafts.
▪ Record of every transaction is maintained in the form of authentic records.
▪ Monthly budget utilization is given by each of the departments. This keeps a further check on them to ensure funds are utilized effectively.
▪ Any additional requirements arised due to unforeseen expenditure shall be discussed in the HOD meeting and requested to the management for approval.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The accounts of the Institute are audited regularly as per the Government rule. An internal auditor, audits accounts on Daily Basis. The internal auditor checks the receipts with fee receipts and payments with vouchers and necessary supporting. He also ensures that all payments are duly authorized. The external auditor conducts statutory audit at the end of financial year. The institution is having qualified practicing charted accountant firm as internal and external auditors who are auditing the accounts of the college once in year. After the audit, the report is sent to the management for review. The last audit was done at the end of the financial year 2014-2015 on year ending 31/03/2015. There have been no audit objections in the last four years.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

▪ The institute being a private Un-Aided college and not getting any financial aid/grant from the state or central government. Fee collection is the only major source of revenue/income generation for the college.
▪ In addition to tuition fee, the institute is also collecting fees for hostel and transportation.
▪ College closely monitors the expenditure, so that the excess cash will be kept as short term deposits to increase the fund flow, other than cash for urgent requirements.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

▪ The institute for acquiring additional funding generates revenue through consultancy work. For each and every government/semi-government civil work which above 20 lakhs required technical audit for their finalization by department of civil in any engineering college.
▪ Pandharpur Nagar-Parishad gives letter for technical audit to the Principal of college. The Principal gives this work-order to department of civil.

According to requirement department has done various types of works like technical audit report, testing of materials, consultancy to civil work etc.

Dept.	Year	Consultancy	Funding Agency
Civil Engineering	2014-15	(Rs) 11,34,397 /-	Pandharpur Nagar-Parishad, Pandharpur

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If yes, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

Yes, the institute has established the Internal Quality Assurance Cell (IQAC) with the following members:

Chair Person: Principal

Members: All Heads of the Department

The institutional policy with regard to quality assurance:

- Impart latest knowledge in engineering field to the students.
- Appoint qualified staff and improve their knowledge and skills.
- Provide competent engineers to the industry and society.
- Make responsible, peace loving and knowledgeable citizens of India by inculcating professional and ethical values.

IQAC is most important to maintain and enhance the quality of institution. The committee is dealing with various activities and departments implement the IQAC guidelines and report the feedback.

b. How many decisions of the IQAC have been approved by the management/ authorities for implementation and how many of them were actually implemented?

All decisions taken by the IQAC are generally approved by the management.

Few modifications are suggested and also implemented by them.

1) Staff development program.

2) Yoga for F.E. students.

3) To start the lectures of content beyond syllabus.

To sustain and grow in competitive world, it is most important to have uniform standards and compliance to the same in order to provide the best possible education to the students.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

No, IQAC don't have external members.

d. How do students and alumni contribute to the effective functioning of the IQAC?

Students are continuously in touch with IQAC and share their requirements which are incorporated for the improvement of the teaching and learning process. The IQAC receives the feedback report and use this information appropriately for the improvement on the curriculum delivery for the perspective of improving employability potential and industrial requirement.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

IQAC communicate with faculty and students via the Heads of Department. All the Heads are members of IQAC.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If yes, give details on its operationalisation.

Yes. The integrated framework for quality assurance of academic and administrative activities given below.
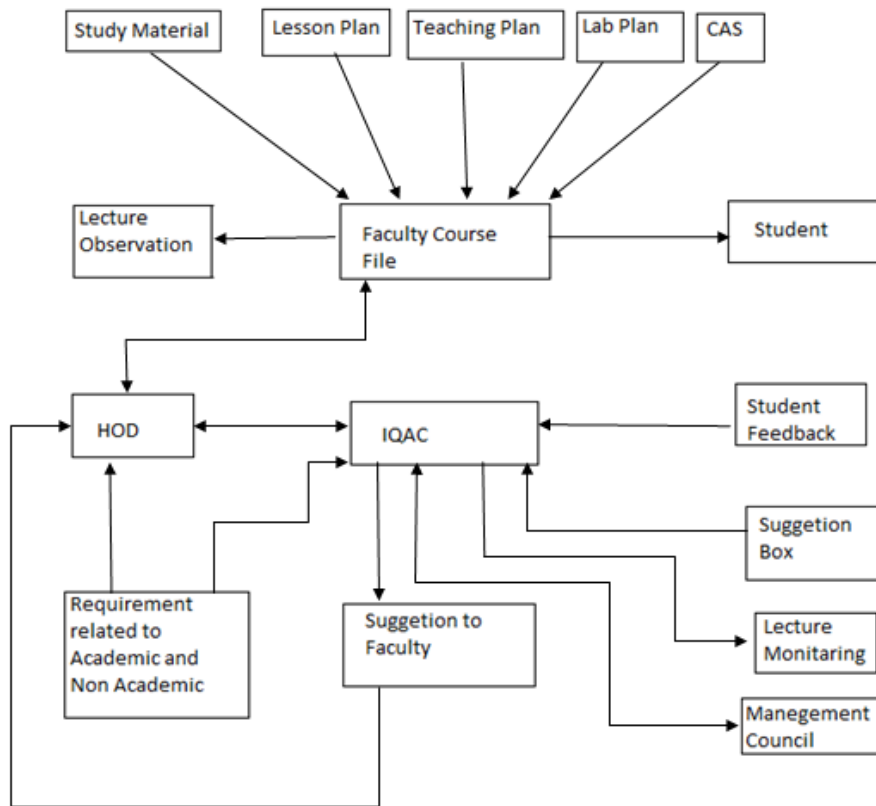
Framework Structure of IQAC

As per the course design, College arranges semester wise activities and plan for classes. The faculties ensure syllabus completion in particular academic year as per plan. The college authority with the help of different committees plan for the activities as listed below:

- Semester/ Annual academic calendar.
- Semester wise teaching plan.

- Class wise time table.
- Examination schedule.
- Annual seminar / workshop schedule.
- Annual plan for sports and extracurricular activities.

The College authority evaluates delivery effectiveness of teaching methods. The knowledge absorption by students is also gauged suitably.

- Teaching Plan and Learning Process (TLP).
- Teaching plans are prepared for a semester. These get checked at different stages in accordance with syllabus and scheme of examination given by University.
- The teaching learning process is facilitated through qualified, trained and experienced faculty. Apart from class-room teaching, students are encouraged to use library and internet facilities.
- The teaching staff maintains academic diaries and records their daily instructions delivered, practical conducted and other such activities performed.
- Any short semester responsibilities (Extra lecture etc.) are properly recorded and informed to concerned authorities.
- The Teaching and Learning process is reviewed by HOD for the concerned teaching faculty and feedback is communicated. The concerned faculty then plans for improvements which are monitored on a regular basis for their effectiveness.
- The effectiveness of teaching learning process is reviewed on a regular basis. The inputs for such review may be from:
    a. Students feedback.
    b. Results of internal tests.
    c. Quality of assignment submitted.
    d. Final results of semester / year.

In this way the College has an integrated framework for quality assurance of the academic and administrative activities.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If yes, give details enumerating its impact.

Yes. The staff is trained through institute level training programs for effective implementation of the quality assurance procedure.

A few examples of such training programs are:

1. Outcome based program.
2. Course File.
3. Preparation of lecture.
4. Lab Plan.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If yes, how are the outcomes used to improve the institutional activities?

No.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

Internal audit such as IQAC is intermittently conducted to ensure that the direction is uniform. External audits are conducted for the college progress. Infrastructure and faculty status in the institute is peer review by the local inspection Committee (LIC) of the university. Suggestions of the LIC are followed by the IQAC.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The mechanisms to continuously review the teaching learning process at the departmental level. HOD allots the subjects to the faculty as per their specialization.

The faculties are requested to submit the Teaching/Lesson Plan and probable notes of lesson for 1- 5 units before the commencement of the semester this will be verified by the HOD. Continuous Assessment Sheet (CAS), Assignments, seminars as a part of the timetable and parent teacher communication/meeting, Class counseling is the measure review the teaching learning process. HOD's are also analyzing the following:

- Semester wise result analysis of University exams.

- Performance in continuous internal assessment marks in each of the components of the internal assessment is considered and semester wise performance is accordingly evaluated.

- Feedback received by the students to assess the teaching.

- Student performance in internal tests reflects the effectiveness of teaching.

- Assessment of the teacher's teaching ability based on the performances shown by the students in the respective subjects.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders? Any other relevant information regarding Governance Leadership and Management which the college would like to include.

The institution communicates its quality assurance policies and mechanism to the various internal and external stakeholders as given below:

- Vision, Mission and Quality Policies are displayed on the website of the institution.

- Vision, Mission statements are display on various Notice Boards at college campus.
- Vision, Mission and Quality Policies are included in the information brochure.
- Copy of Vision, Mission and Quality Policies are provided to students.
- Vision, Mission and Quality Policies are printed on the academic calendar.

CRITERION VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Karmayogi Engineering College (KEC) believes in providing a balanced environment & learning infrastructure which is in harmony with nature. We are having approximately 5-6 Acores of total integrated campus as green.KEC is a knowledge hub created 15 Kms from Pandharpur which provides education to all class of the society. No, the Institute has not conducted a green audit in its campus and facilities till date.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

The college has visualization to the make the campus green, eco-friendly with minimum use of energy and continuous efforts have been made to create environment consciousness among the staff and students. To make the campus eco-friendly, we have developed the infrastructure and some regular practices which have been enumerated below-

Energy Conservation:
- Use of single switch on-off system at the entrance of each room for switching off all the electrical utilities whenever not required.
- Air-conditioners are not being used in the college even not to Principal Cabin.
- The infrastructure has been designed to provide natural lighting and good ventilation to classrooms and labs.
- Printing is minimized and is always taken on both sides of the paper. Unless required to send out of campus. Already one sided utilized papers are being used for regular activities.
- Desktops have been bought with LCD screen to save on energy.
- Instructions provided near switches to switch off lights & fans while leaving the room in labs, staff cabin, classroom, Principal cabin, office, library etc.
- Our class rooms, offices, gymnasium, canteen& hostels are provided with enough ventilation & illumination to cut down energy use at day time.
- "Save water save life" messages are displayed near drinking water coolers and in the toilets.
- Fixed dome type Biogas plant is installed by students as their project, having capacity of 15 m^3 in college campus.100 Kg/Day kitchen waste is processed which is running with feed from college campus (canteen and mess).The gas generated from the plant is used in college mess. The Output gas (methane gas with blue flame same as LPG) provided by this plant is 10-12Hrs/day. The model and implementation photo is shown in fig 7.1.

Fig 7.1 Biogas plant installed in the campus

Rain Water harvesting:

Rainwater harvesting means collect rainfall on terrace and convey it towards storage tank for various utilization Purpose. Here we collected rain fall on Terrance and convey it by means of rain water pipe towards well located in college campus, in order to increase ground water table in the well. The Pout of rainwater collected is directly utilized for gardening purpose.

Terrace area is about 60,000 sq.feet and average rainfall is about 400mm, hence, rainfall on terrace area is collected and used for gardening as well as conveyed towards well located in college campus at 600 feet from main building.

Check dam construction: Not Available

Contour bunding:
Contour bunding means excavation of ditches along the contour lines on ground level at interval of 2-3m, in order to water conservation for increasing ground water table. Contour bunding work is done in college campus near boy's hostel building

Efforts for Carbon neutrality:
- ✓ The green lawns and plantation in and around the campus is also helpful in fixation of carbon content present in environment.
- ✓ The architecture of buildings ensures maximum sunlight on all floors.
- ✓ The entire college campus is densely covered with green trees which ensure Carbon neutrality in and around the campus area.
- ✓ The college has made an arrangement of parking at separate area isolated from the college buildings.

Plantation: Lustrous garden and lawn are maintained with some of flowering plants and trees. A lot of expenditure is incurred to keep the environment green. Sprinklers are provided for watering. Total 10 labors including 2 gardeners, 2 supervisors and 1 Inchage has been employed on contract basis to maintain lawns and greenery. Tree plantation few details are listed below

Table No 7.1 Plantation at Karmayogi Engineering Campus

S N	Name of the plant	Total Number
01	Vhegonia	04
02	Verigeteu	04
03	Aglonima	04
04	Antepnia Verigeteu	04
05	Drerssina Mini	04
06	Verigeteu Sirsa	04
07	Difenbikia	04
08	Didenbekia New	04
09	Chafa	900
10	Petracoton	70
11	Singonian Mix	25
12	Jiranium	30
13	fern	240
14	Spethikalyam Sunsen	50
15	Monstera Zanadu	150
16	White Dressina	55
17	RedDressina	55
18	Black Dressina	60
19	Sinc Rose golden	55
20	My darling cross	55
22	Lily	2000
23	Aareka Pan	90
24	Crgycy palm	300
25	Kentia Palm	300
26	Dracera coloroma	30
27	Grond crover	7
28	Phenix palm	100
29	Cyproy golden	100

Hazardous waste management: There is no hazardous waste material produced in the institute.

e-waste management: The non-working computer spare parts, electronic scrap components and other nonworking equipments are safely disposed outside

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Each day of the college starts with National anthem: On every working day we follow this practice to revive Indian patriotism among students, faculty and all who are working with the institute.

Incentive to faculty for Paper Publication: To motivate the faculty members to progress further in their area of academics and research the college provides them certain incentive for publishing papers in journals of high repute.

Language Lab: The Language Lab is used for developing effective communication skills and overall personality of students. Entry level students are furnished here according to lacunas to cope up with competition.

JEE awareness among 10+2 students: In the survey of students admitted to regions like Pandharpur we found due lack to awareness like they are unable to get financial assistance, reservations etc in engineering admission process. We aware the students in remote areas near by Pandharpur about Engineering admission Process, eligibility, required documents and entrance examinations like JEE, MHCET.

Suggestion box and Appreciation box: These two boxes are available in entrance porch of the college to ensure easy access to all. On every Saturday we open these boxes, collect the suggestions, corrective action are being implemented and same are displayed on notice board for the students. This activity is being done by the principal.

Appointment of counselor: Mrs Sangeeta patil has been appointed as counselor for the student's related to psycho-social problems. Faculties are counseling the students related to academic, personal, career problems.

Monthly we send the progress report of the student to their parents: On monthly basis we convey the academic progress of the student to their parents. This activity is well supported by our class coordinators. The progress report contains the marks acquired by students in Unit lest, Prelim exam along with attendance for a month per subject.

Fees concession and "earn while learn scheme" for economically weak background student: College has started a motivation for learners to continue their academics along with some earning. Normally we provide free/ concession in hostels.

College provides book bank facility for class topper students: Class toppers from all the departments are offered with additional book facility. This facility is in addition to book bank facility to category students where only academic performance is the criterion.

7.3 Best Practices

7.3.1 Elaborate on any two best practices which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

BEST PRACTICE I
1. **Title of the Practice:**
   Karmayogi First Year study Activity (KFYSA)
2. **Goal:** We give particular time to set realistic goal for the sake of best practices of the students. So, student improvement programs are aimed with following aspects-
   - To reduce student dropout and increase the results.
   - To design an approach in order to satisfy catering need of students.
   - To improve Communication skills/ English Language
   - To improve the overall personality development of the students.
   - To improve the leadership quality in students' ie.Seminar, presentation, industrial visits etc.
   - To improve their academic performance extra coaching in additional study hours.
   - To enhance the academic performance by regular test conduction.
   - To strengthen the mentality of students by best practices ie.Yoga, Pranayam, Counseling etc.

3. **The Context:** The institution is located in rural part of Maharashtra. The Students along with their parents are lack of technical knowledge. Admitted students are with lack of confidence which was leading to poor academic performance in spite of ability.
4. **Practice:** KFYSA is an indigenously developed mechanism for ensuring effective implementation of teaching learning process and overall development of the students. It consist of four distinct components out of which first two focus on student development and guidelines for becoming an outstanding student, whereas last two on guiding students about getting excellent academic performance and going one step ahead achieving overall development. Students are required to maintain separate notebook for all subjects. Students are asked o write 5 sentences in English on daily basis and get it checked by concern teacher. Tests are being conducted on daily basis. This year we stated Yoga and Pranayam for first year students. In evening study hours we motivate the student to study followed by test which help for improvement of learning. The main intention to reduce dropout per year.
5. **Evidences of Success:** The passing percentage of the first year students has increased which indicates effectiveness of implementing KFYSA. By using centralized efforts and proper mechanism drop out the students has reduced.
   The result comparison for last few years semester wise is shown in graph below.

Graph no 7.1 Result Analysis of First year engineering in previous years

Passing Result Sem I

Passing Result Sem-II
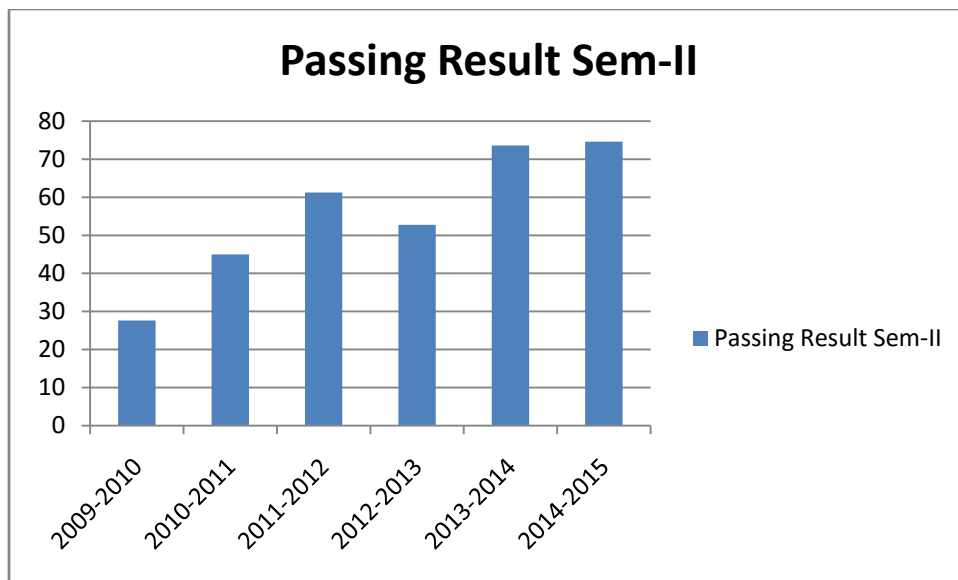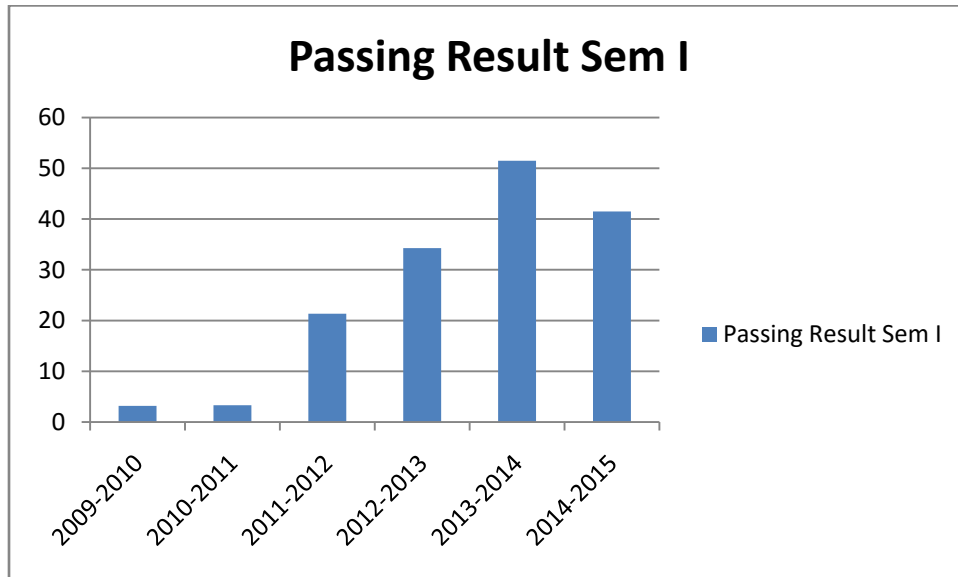
6. **Problem encountered and resource required:**
   ➢ Giving extra time to weaker students with free of cost was the troublesome.
   ➢ It was challenge to find competent faculty members for this activity.
   ➢ Human resources were insufficient to maintain the best practices. As per the requirement, we adjusted the workload.
   ➢ Mostly financial problem occurs from student's side but it got solved with some sort of solutions.ie. Giving concession.

7. **Contact Details**
   Name of the Principal: Dr. S.P Patil
   Name of the Institution: Karmayogi Engineering College   Shelve
   City: Pandharpur **Pin Code**: 413304
   Accredited Status: Not Accredited.
   Work Phone: 02186-250310 **Fax:** 02186-250305
   Website: karmayogiengg.com   **E-mail**: kecmailbox@gmail.com
   Mobile: 9503763370

BEST PRACTICE II

1) **Title of the practice**:

Improvement of practical approach in teaching learning activity by using Continuous Assessment Sheet (CAS).

2) **Goal:**
   ➢ To evaluate practical/tutorial performance of students on weekly bases.
   ➢ To encourage the students for actively participating in Practical.
   ➢ To set up a system for calculation of term-work marks.
   ➢ To incorporate lab plans effectively during academics.
   ➢ To give justice to regular performer.

3) **The Context:**

The practical approaches of the students were unsatisfactory. It was observed that most of the practical were conducted at end of the semester. Students as well as faculties were found to be causal during practical session. Few students were only attending the lectures to grant the term. The condition of lab was also poor.

4) **Practice:**

The Continue Assessment Sheet (CAS) practice is consisting of analysis of each experiment base on timely submission, understanding, Participation and neatness of the report. There is provision of stating performed date and submission date of each experiment. In CAS you can provide practice session where absent student can perform the pending experiment. This has to verify by the faculty. At the end of semester these CAS are collected and CAS marks are converted out of 15 marks.05 marks are reserved for Unit Test results and 05 are for Prelim exam considering Term-work are out of 25. Hence regular performer will be benefitted.

5) **Evidences of Success:**

The students who were present in classroom as well in Lab and performed consistently have secured higher marks in term-work. Students are doing their practical's regularly with efforts in understanding.

6) **Problem encountered and resource required:**

This practice runs smoothly from last 3 years but it creates difficulty when faculty has to fill CAS sheet of irregular students. There are also slow learners in the class which may take more time to complete single

experiment .To trace to slow learners we ask the faculty to identify them and give them first demonstration and then ask them to do own. To fill the CAS sheet of student who is allowed to take a leave or on medical emergency found to be difficult.

7) **Contact Details**
   Name of the Principal: Dr. S.P Patil
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   Accredited Status: Not Accredited.
   Work Phone: 02186-250310 **Fax:** 02186-250305
   Website: karmayogiengg.com   **E-mail**: kecmailbox@gmail.com
   Mobile: 9503763370

EVALUATION REPORTS OF THE DEPARTMENTS

Department of Mechanical Engineering:

1. **Name of the Department** : Mechanical Engineering
2. **Year of establishment** : 2009
3. **Names of programmes / courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

Programme of Study	Description
UG in Mechanical Engineering	**60** seats from 2009
UG in Mechanical Engineering	**60** seats from 2010 **(Total Intake 120)**

4. **Names of interdisciplinary courses and the departments/units involved:**
   Nil

5. **Annual/ semester/choice based credit system (programme wise):**
   Semester Wise

6. **Participation of the department in the courses offered by other departments:**
   Department shares its human resource with Basic Science Department for EngineeringGraphics, Basic Mechanical Engineering.

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
   Nil

8. **Details of courses/programmes discontinued (if any) with reasons**
   No

9. **Number of teaching posts**

	Sanctioned	Filled		
		Permanent	**Regular**	**Visiting**
Professor	**03**	**00**	**00**	**00**
Associate Professor	**07**	**00**	**00**	**00**
Asst. Professor	**21**	**04**	**23**	**05**

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,):

S N	Name	Qualification	Designation	Specialization	No of Years of Experience
Permanent Faculty					
1	Prof. Jagtap Vidyasagar Laxman	M.Tech.	Asst. Prof.	Production	5
2	Prof. Shinde Sachin Malhari	M.E.	Asst. Prof.	Design	8
3	Prof. Eklarkar Shripad Vasantrao	M. Tech. Ph.D.*	Asst. Prof.	CAD/CAM	8
4	Mrs. Mulani Tabasum Tayyab	M.ScB.Ed	Asst. Prof.	Physics	5
Regular Faculty					
5	Prof. Karvekar Uday Rangrao	M.E.	Asst. Prof.	Design	16
6	Prof. Jagtap Somnath Shrirang	M.E.	Asst. Prof.	Design	6
7	Prof. Yadav Ganesh Dattatray	M.E.	Asst. Prof.	Design	7
8	Prof. Patale Sudarshan Balasaheb	B.E.	Asst. Prof.	Mechanical	3
9	Prof. Kale Swapnil Annasaheb	B.E. M.E.*	Asst. Prof.	Design	8
10	Prof. Panchal Rahul Janardan	M.Tech	Asst. Prof.	Energy	8
11	Prof. Kale Shrikant Sambhaji	M.E.	Asst. Prof.	Design	4
12	Prof. Pawar Chandrakant Chanappa	B.E. ME*	Asst. Prof.	Design	2
13	Prof. Parase Prithwiraj Krishana	M.Tech.	Asst. Prof.	CAD/CAM	1
14	Prof. Bhange Prashant Nanasaheb	M.Tech.	Asst. Prof.	Energy	1
15	Prof. Phule Pallavi Dnyaneshwar	M.Tech.	Asst. Prof.	Automobile	2
16	Prof. Bhosale Ganesh Hanmant	M.E.	Asst. Prof.	Heat & Power	6
17	Prof. Rokade Prashant Anil	BE	Asst. Prof.	Mechanical	0.5
18	Prof. Patil Nikhil Suresh	B.E.	Asst.	Mechanical	0.5

			Prof.		
19	Prof. Kumbhar Vishal Sharad	B.E.	Asst. Prof.	Mechanical	0.5
20	Prof. Patil Samip Sanjay	B.E.	Asst. Prof.	Mechanical	0.5
21	Prof. Mane Santosh Pandit	M.Tech.	Asst. Prof.	Thermal	1
22	Prof. Tiwari Nagesh Govindram	M.ScB.Ed	Asst. Prof.	Mathematics	6
23	Mr. Metkari Appasaheb Dhanappa	M.ScB.Ed	Asst. Prof.	Physics	4
24	Prof. Maske Subhash Pralhad	M.A. M.Ed.	Phy. Dir.	Education	10
25	Prof. Kamble Pramod Ananda	B.E.	Asst. Prof.	Mechanical	0.5
26	Prof. Thorat Nitin Dilip	BE	Asst. Prof.	Mechanical	0.5
27	Prof. Mali Tushar Hanumant	BE	Asst. Prof.	Mechanical	0.5
Visiting Faculty					
28	Prof. Patil Sandip Avinash	BE	Asst. Prof.	Mechanical	0.5
29	Dr. Patil S.A.	Ph.D.	Asst. Prof.	Mechanical	17
30	Prof. Patil V.B.	M.E.	Asst. Prof.	Mechanical	1
31	Prof. Patil Rushikesh Ashokrao	B.E.	Asst. Prof.	Mechanical	0.5
32	Prof. Patil Jayant	B.E.	Asst. Prof.	Mechanical	0.5

11. **List of senior visiting faculty**
    No
12. **Percentage of lectures delivered and practical classes handled (programme wise) byTemporary faculty**
    No
13. **Student -Teacher Ratio (programme wise)** : Student -teacher ratio = 1:15

14. **Number of academic support staff (technical) and administrative staff;**

    Sanctioned and filled:

Staff	Sanctioned	Filled
Technical & support staff	**5**	**5**

Administrative staff	--	--

15. Qualifications of teaching faculty with DSc/ D.Litt / Ph.D/ MPhil / PG.

Ph. D faculties	1
Ph. D pursuing faculty	1
PG faculty	19
UG faculty	11

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received
Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received
Nil

18. Research Centre /facility recognized by the University
No

19.   Publications:

a) **Publication per faculty**

SN	Name of Staff	Title of Paper	Name of Journal	ISSN No.	Published Year	Impact Factor
Faculty Publication						
1	Mr. Sachin M. Shinde	Probabilistic Design and Random Optimization of Airfoil Wing by Using Finite Element Metho	Int. Journal of Engineering Research and Applications		2013	
2	Mr. Sachin M. Shinde	Probabilistic Design of Hollow Airfoil Composite Structure by Using Finite Element Method	Int. Journal of Engineering Research and Applications	2248-9622,	2014	

3	Mr. Sachin M. Shinde	Probabilistic Design And Random Optimization Of Hollow Rectangular Composite Structure By Using Finite Element Method	Int.Journal of Mechanical Engineering and Technology (IJMET)	0976 – 6340	2014	7.5377
4	Mr. Sachin M. Shinde	Probabilistic Design of Hollow Circular Composite Structure by using Finite Element Method	Int. Journal of Engineering Research and Applications	2248-9622	2014	
5	Mr. G. D. Yadav	Design and development of manure spreader- A Review	Int. Journal of Engineering Research and General Science	2091-2730	2015	1.8
Student Publication						
1	Mr. Ananth Krishnan H., Mr. Chetan K. Raut	Alternative Fuel-Hydrogen	ICAT		2013	

Number of papers published in peer reviewed journals (national/ International) by faculty and students –For faculty as above and for students

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)

- Monographs : NIL
- Chapter in Book : NIL
- Books Edited : NIL
- Books with ISBN numbers with details of publishers : Nil
- Citation Index : No
- SNIP : NIL
- SJR : NIL
- Impact factor : Yes
- h-index : NIL

20. Areas of consultancy and income generated.

S N	Client	Project Title	Duration	Project Value (Rs)	Income Generated	Faculty Involved
1	Mrs. V M Bansode, Chairman, Panchyat Samiti, Pandharpur	Inspection of Kitchen Utensils	16-5-15 To 8-6-15	30,01,783 /-	NA	1) Prof. S M Shinde 2) Prof. P N Bhange 3) Mr. A A Mali

21. Faculty as members in
a) National committees b) International committees c) Editorial boards
ISTE Life Membership (LM)

22. Student projects
a) Percentage of students who have done in-house projects including interdepartmental /programme = **95.12 %**
b) Percentage of students placed for projects in organizations outside the institutioni.e.in Research laboratories/Industry/other agencies =**4.88 %**

23. Awards / Recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists / visitors to the Department: Nil

25. Seminars/ conferences/workshops organized & the source of funding
a) National   b) International: Nil

26. Student profile programme/course wise:

Name of the Course/programme	Applications received		Selected (FE+DSE)	Enrolled		Pass percentage (BE)
	FE	DSE		*M	*F	

2011-12	72	14	86	85	1	89.88
2012-13	83	37	120	115	5	NA
2013-14	70	77	147	144	3	NA
2014-15	55	64	119	113	6	NA

27. Diversity of students

Name of the Course	%of students from the same state	% of students from other States	%of students from abroad
2011-12	100	Nil	Nil
2012-13	100	Nil	Nil
2013-14	100	Nil	Nil
2014-15	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Academic Year	Number of Student
2012-13	01
2013-14	Nil
2014-15	01

29. Student progression

Student progression	Against % enrolled
UG to PG	56.29
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D.to Post-Doctoral	Nil

Employed	
•Campusselection2013-14	17.03
•Other than campus recruitment	Nil
Entrepreneurship/Self-employment	Nil

30. Details of infrastructural facilities:
a) Library

S N	Particulars	Net Quantity
1	Titles - Text Books	18
	- Ref Books	13
	- Competitive Exam Books	17
2	Project Report	46
3	Vocational Training Report	77
Total		171

News Paper-   Times Of India
Area- 24 Sq.Mtr
Furniture-

- Table :– 01 No's
- Chairs:- 10 No's
- Cupboards:- 02 No's

Seating Capacity: 10
b) Internet facility for staff & student: CAD Lab with   10 Mbps lease line and BSNL Facilities   available both for staff & students.
Wi-Fi:
- They can download books, technical papers, important information which will be helpful for their study.
- With internet they can share their technical ideas with friends and faculty members outside and research persons.

c) Class rooms with ICT facility: NIL.
d) Laboratories

LABORATORY INVESTMENT SUMMERY

S N	Name of Lab	Lab Area Sq.Mtr.	Cost
1	CAD/CAM	68	2590946.42
2	RAC	129.46	492750
3	ATD	132.9	171360
	HMT		223897.5
4	FM	202.7	225900
	FMFP		840374
5	META	120	427860
	MP		150806.25
6	ESA	100	59062.5
	MMM		224947.13
7	ACE	100	52396
	Mechatronics		124166
8	TOM I&II	132.9	219888
9	PP&EE	132.9	220500
	BME		77456.25
10	ICE	208	1262250
	AUTO. Engg.		434224
11	MTP	208	1265622
12	Welding Shop & Smithy Shop	520	167343
	Sheet Metal Shop		18522
	Fitting Shop		95147
	Carpentery Shop		77361
	Machine Shop		2287688
	Central Tool Room		396169
Total Cost-			**1,21,06,636.05**

31. **Number of students receiving financial assistance from college, university, government or other agencies**

- Economically weaker students of SC,ST ,OBC and OC ,whose parent income is less than 4.5 Lakh per annual get tuition fee reimbursement and scholarship from state Government
- Apart from this students are also getting scholarships from Government agencies like social welfare/GATE stipend for qualified candidates/scholarships sponsored by AICTE.
- Some of the students getting financial assistance from the college for presentation of the papers and for attending conferences/workshops.

32. Details on student enrichment programmes (special lectures / workshops / seminar)

Name of the Guest Lecture/Seminar/Workshop/Event	Associate Institute/Industry	Date/Duration	Resource Person	Target Audience
Academic Year 2012/13				
Manufacturing Processes	SVERI's COE, Pandharpur	04/08/2012	Mr. P. K. Parase	SE Students
Power Plant Engineering	SVERI's COE, Pandharpur	08/09/2012	Mr. R. R. Narkar	BE Students
Heat & Mass Transfer	SVERI's COE, Pandharpur	22/09/2012	Mr. A. G. Kawade	TE Students
Soft Skills Development	Seed Infotech, Pune	09/03/2013	Mr. RushikeshParandkar	FE, SE Students
Theory of Machines	SVERI's COE, Pandharpur	29/3/2013 to 6/04/2013	Prof. S.D. Katekar	SE Students
Industrial & Quality Management	SVERI's COE, Pandharpur	06/04/2013	Prof. B.D. Gaikwad	BE Students
Academic Year 2013/14				
Career Guidance	SVERI's COE, Pandharpur	13/08/2013	Prof. V.A. Bagale	SE,TE, BE Students
Project Work	SVERI's COE, Pandharpur	13/08/2013	Prof. S.J. Madaki	SE,TE, BE Students
Career Opportunities in Automotive Design	CAD/CAM Guru, Pune	07/02/2014	Mr. AmayKambate	BE Students
Aptitude Training	Globarena Technologies Pvt. Ltd.,Hydrabad	22/08/2013	Mr. P Santosh Kumar	TE Students
Experimental Stress Analysis	SVERI's COE, Pandharpur	28/08/2013	Mr. R. S. Autade	BE Students
Finite Element Methods	SVERI's	29/08/201	Mr. S. K.	BE

	COE, Pandharpur	3	Gund	Students
Training on Soft Skills	SEED InfoTech Ltd., Pune	19/08/2013 to 10/09/2013	Ms. Anjali Sharma, Mr. JitendraDugal, Ms. Anu Dixit	TE,BE Students
Mechatronics	SVERI's COE, Pandharpur	15/02/2014	Mr. P. K. Parase	BE Students
Robo-War	JSPM COE, Pune	25/02/2014	Mr. Ajinkya M. Firme	SE,TE, BE Students
Heat & Mass Transfer	NK Orchid COE&T, Solapur	03/04/2014 to 04/04/2014	Mr. S. S. Kale	TE Students
Academic Year 2014/15				
Engineering Mathematics II	SVERI's COE, Pandharpur	27/08/20	Mr. A. V. Malge	FE Students
Power Plant Engineering	SVERI's COE, Pandharpur	29/08/2014	Mr. M. G. Palkar	BE Students
Machine Design-I	SVERI's COE, Pandharpur	03/09/2014	Mr. J. P. Pawar	TE Students
Scope & Career in metallurgy	Research Scholar	22/09/2014	Mr. Pushkar Deshpande	TE,BE Students
Mechatronics	SVERI's COE, Pandharpur	20/03/2015	Mr. P. K. Parase	BE Students
Integrated Course in Advanced CAD - CREO	Indo German Tool Room, Aurangabad	25/03/2015	Mr. Arnab Bhattacharjee	BE Students

33. Teaching methods adopted to improve student learning with external experts:

1. By ensuring Continuous Assessment Sheet (CAS)
2. PPT with LCD Projector
3. Use of Models, Charts and Animations, Videos
4. Students are encouraged to use NPTEL resources for various subjects.

34. Participation in institutional social responsibility (ISR) and extension

activities:

- Entrepreneurial development activities through various competitions.
- Design, development and maintenance of e-learning environment
- Remedial classes for weaker students during the evening hours
- Students and Faculty participating in several activities, which are useful to the Society/Community through NSS.
- Participation in NSS program
- Blood Donation Camps

35. SWOC analysis of the department and Future plans:

Strengths:

- Excellent infrastructure and well equipped laboratories
- A unique mix of experienced and young enthusiastic human resource
- CAS

Weaknesses:

- Insufficient scope for regular syllabus up gradation due to university affiliated status of the institute.
- Less exposure to industry due to location of college in rural area.
- Less publications in referred journals

Opportunities:

- Engineering education at affordable cost
- Scope for industry-institute interaction
- Enter into collaborative project with industry and other institute for better exposure
- Preparing student for GATE/GRE & government /public sector examination

Challenges:

- National workshops have to be organized.
- Increasing consultancy and R and D funded projects.
- Industrial exposure to students and faculty.
- Balancing administrative, academic and research work.
- To get 100% placement

Department of Civil Engineering

1. **Name of the Department:** Civil Engineering

2. **Year of establishment :** 2009

3. **Names of programmes / courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

Programme of Study	Description
UG in Civil Engineering	**60** seats from 2009

4. **Names of interdisciplinary courses and the departments/units involved :** Nil

5. **Annual/ semester/choice based credit system (programme wise):** Semester Wise

6. **Participation of the department in the courses offered by other departments:** Department shares its human resource with Basic Science Department for Engineering Mechanics, Basic Civil Engineering.

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.** : Nil

8. **Details of courses/programmes discontinued (if any) with reasons**: No

9. **Number of teaching posts**

Designation	Sanctioned	Filled		
		Permanent	Regular	Visiting
Professor	01	00	00	00
Associate Professor	04	00	01	00
Asst. Professor	11	01	14	00

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,):**

S N	Name	Qualification	Designation	Specialization	No of Years of Experience
1	Prof. A. T. Babar	M.Tech. Ph.D*	Asst. Prof.	Environmental Engg.	15
2	Prof. S. S. Upase	M.Tech	Asst. Prof.	Const.&Mngt.	05
3	Prof. A.S. Deshpande	Msc.Ph.D*	Asst. Prof.	Geology	03
4	Prof. A. M. Sutar	M.E.*	Asst. Prof.	Const.&Mngt.	03
5	Prof. S. P. Yadhav	B.E.	Asst. Prof.	Civil	03
6	Prof. M. B. Patil	M.E.*	Asst. Prof.	Structure	02
7	Prof. G. G. Gaikwad	M.E.*	Asst. Prof.	Civil	01
8	Prof. S. A. Kashid	B.E.	Asst. Prof.	Civil	01
9	Prof. V. U. Deshmukh	B.E.	Asst. Prof.	Civil	0.5
10	Prof. M. M. Autade	M.E.*	Asst. Prof.	Structure	01
11	Prof. R. P.	B.E.	Asst. Prof.	Civil	0.5

	Ambule				
12	Prof. V. V. Bhosale	B.E.	Asst. Prof.	Civil	01
13	Prof. S.B. Pawar	B.E.	Asst. Prof.	Civil	01
14	Prof. B.P. Kumbar	B.Arch	Asst. Prof.	Architecture	10
15	Prof. V. B. Patil	B.E.	Asst. Prof.	Civil	0.5
16	Prof. Patil S. K.	M. E.	Asso. Prof	Civil	12

11.   List of senior visiting faculty: No

12. Percentage of lectures delivered and practical classes handled (programme wise) by Temporary faculty: 0%

13. Student -Teacher Ratio (programme wise) : Student -teacher ratio 1:15

14. Number of academic support staff (technical) and administrative staff; Sanctioned and filled:

Staff	Sanctioned	Filled
Technical & support staff	**02**	**01**
Administrative staff	**00**	**00**

15. Qualifications of teaching faculty with DSc/ D.Litt / Ph.D/ MPhil / PG.

Ph. D faculties	00
Ph. D pursuing faculty	02
PG faculty	02
UG faculty	12

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:** Nil

18. **Research Centre /facility recognized by the University** :No

19. **Publications:**

- a) Publication per faculty

S N	Name of Staff	Title of Paper	Name of Journal	ISSN No.	Published Year	Impact Factor
Faculty Publication						
1	Prof. A. S. Deshpande	Ground water quality study of bhandarkavthe village of Solapur district Maharastra , India	Journal of Applied Hydrology		2011	1.5
2	Prof. A. M. Sutar	Experimental investigation of SCBA blended concrete	Int. Journal of Modern trends in Engineering and Research (IJMTER)	2349-9745	2014	1.7

- Number of papers published in peer reviewed journals(national/ International)by faculty and students –For faculty as above and for students :Nil .
  - Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory ,EBSCO host, etc.)
  - Monographs : NIL
  - Chapter in Book : NIL
  - Books Edited : NIL
  - Books with ISBN numbers with details of publishers : Nil
  - Citation Index : No
  - SNIP: NIL
  - SJR: NIL

- Impact factor : Yes
- h-index : NIL

20. Areas of consultancy and income generated.

S N	Client	Project Title	Duration/ Year	Project Value (Rs)	Income Generated	Faculty Involved
01	Grampachyat of village Kem	Visit report on inspection of existing settling tank at village-Kem	2012-13	7000	7000/-	
02	Pandharpur Nagar Parishad, Pandharpur.	Underground sewerage isbavi, Pandharpur	2014-15	58 Crore	1092393	1.Prof.A. T. Babar 2.Prof.A. M. Sutar 3.Prof.S. S. Upase 4.Prof.S. P. Yadav
03		Constuction @ Dr. BabasahebAmbedkar Statue	2014-15	4906820		
04		BBT Road at Isbavi	2014-15	4553741		
05		BBT Road at KumbharGalli	2014-15	6920699		
06		BBT Road at Shakuntala Nagar	2014-15	6260276		
07		BBT Road at Umanagar	2014-15	1953546		
08		BBT Road at Bhai-BhaiChowk	2014-15	6499624		
09		BBT Road in Gurudev Nagar	2014-15	1771055		
10		BBT Road in Sangola Road	2014-15	2336117		
11		BBT Road in Station Road	2014-15	5058681		
12		BBT Road at MohsinVidhalayaisbavi	2014-15	6095342		
13		BBT Road at MalapeNalaIsbavi	2014-15	6309070		
14		Constuction of shopping Center at First Floor ,Pandharpur	2014-15	7479174	42004	

21. Faculty as members in

   a) National committees: NIL

   b) International committees: NIL

   c) Editorial boards: NIL

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental /programme =   **100 %**

b) Percentage of students placed for projects in organizations outside the institution I.e.in Research laboratories/Industry/other agencies =**Nil**

23. Awards / Recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists / visitors to the Department: Nil

25. Seminars/ conferences/workshops organized & the source of funding

   a) National   b) International: Nil

26. Student profile programme /course wise:

Name of the Course/ programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-13	16	16	13	3	100%
2013-14	30	30	27	3	100%
2014-15	27	27	24	3	88.89%

27. Diversity of students:

Name of the Course	%of students from the same state	% of students from other States	%of students from abroad
BE Civil	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? Nil

29. Student progression

Student progression	Against % enrolled
UG to PG	13%
PG to M. Phil	Nil
PG to Ph. D.	Nil
Ph. D .to Post-Doctoral	Nil
Employed •Campus selection •Other than campus recruitment	10% 51%
Entrepreneurship/Self-employment	26%

30. Details of infrastructural facilities:

a) Library

S N	Particulars	Net Quantity

1	Titles - Text Books
	        - Ref Books
	       - Competitive Exam Books
		0
		25
		14

2	Project Report	11
3	Vocational Training Report	73
	Total	123

News Paper- Times of India daily.

Area- 24 Sq. Mtr

Furniture-

- Table :– 01 No's
- Chairs:- 10 No's
- Cupboards:- 02 No's

Seating Capacity- 10

b) Internet facility for staff &student: CAD Lab with 10 Mbps lease line and BSNL Facilities available both for staff & students.

WiFi:

- They can download books, technical papers, important information which will be helpful for their study.
- With internet they can share their technical ideas with friends and faculty members outside and research persons.

c) Class rooms with ICT facility:-NIL.

d) Laboratories:

LABORATORY INVESTMENT SUMMERY

S N	Name of Lab	Lab Area Sq. Mtr.	Cost
1	Transportation Engineering Lab	134	335,215.00
2	Geotechnical Engineering-I	100	740,600.00
3	Applied Mechanics Lab	100	161,650.00
4	Concrete Technology Lab	107.34	484,980.00
5	Surveying Lab	100	4,00,740.00
6	Environmental Engineering Lab	200	469,185.00
7	Fluid Mechanics Lab	200	350,662.00
8	Structural Mechanics Lab	107.34	849,375.00
9	Engineering Geology Lab	100	91,660.00
10	CPNM Lab	67	801,311.00
Total Cost			4685378/-

31. **Number of students receiving financial assistance from college, university, government or other agencies**
    - Economically weaker students of SC,ST ,OBC and OC ,whose parent income is less than 4.5 Lakh per annual get tuition fee reimbursement and scholarship from state Government
    - Apart from this students are also getting scholarships from Government agencies like social welfare/GATE stipend for qualified candidates/scholarships sponsored by AICTE.
    - Some of the students getting financial assistance from the college for presentation of the papers and for attending conferences/workshops.

32. Details on student enrichment programmes (special lectures / workshops / seminar)

Name of the Guest Lecture/Seminar/Workshop/Event	Associate Institute/Industry	Date/Duration	Resource Person	Target Audience
Academic Year 2012-13				
Bal Kumbhar	Associate	15/07/2012 to 30/09/2012	Prof.A. T. Babar	TE Students
K.C. Barsawade	Industry	15/07/2012 To 30/09/2012	Prof.S. S. Upase	BE Students
Academic Year 2013-14				
Prof. Desai B.D.	Institute	05/09/2013	Prof.S. S. Upase	BE Students
Prof. M.B. Pawar	Institute	02/02/2014	Prof.A. T. Babar	SE Students
Academic Year 2014-15				
K.C. Barsawade	Industry	08/09/2014 To 28/09/2014	Prof.S. S. Upase	FE Students
Prof. R. S. Chavan	Institute	15/10/2014	Prof.A. M. Sutar	BE Students

33. Teaching methods adopted to improve student learning with external experts:

- By ensuing Continuous Assessment Sheet (CAS)
- PPT with LCD Projector
- Use of Models, Charts and Animations, Videos
- Students are encouraged to use NPTEL resources for various subjects.

34. Participation in institutional social responsibility (ISR) and extension activities:

- Entrepreneurial development activities through various competitions.
- Design, development and maintenance of e-learning environment
- Remedial classes for weaker students during the evening hours
- Students and Faculty participating in several activities, which are useful to the Society/Community through NSS.
- Participation in NSS program
- Blood Donation Camp

35. SWOC analysis of the department and Future plans:

Strengths:

- Excellent infrastructure and well equipped laboratories
- A unique mixture of experienced and young enthusiastic staff
- Revenue generation through consultancy assignments.

Weaknesses:

- Less exposure to industry due to remote location of college in rural area.
- Less experience and qualified faculty.
- Placement in Grade A companies is poor.

Opportunities:

- Engineering education at affordable cost
- Scope for industry-institute interaction
- Enter into collaborative project with industry and other institute for better exposure
- Preparing student for GATE/GRE & government /public sector examination To get 100% placement

Challenges:

- Balancing administrative, academic and research work.

Department of Electronics &Telecommunication Engineering

1. **Name of the department:** Electronics & Telecommunication Engineering

2. **Year of Establishment:** 2009

3. **Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

   UG in Electronics &Telecommunication Engineering: 60 Seats from 2009

   UG in Electronics &Telecommunication Engineering: 120 Seats from 2010

   UG in Electronics &Telecommunication Engineering: 60 Seats from 2013

4. **Names of Interdisciplinary courses and the departments/units involved:** Nil

5. **Annual/ semester/choice based credit system (programme wise):**
   UG in Electronics &Telecommunication Engineering: Semester pattern

6. **Participation of the department in the courses offered by other departments:**

   Department shares its human resource with Basic Science Department for Basic Electrical Engg., Basic Electronics. Department also shares its human resource with Mechanical and Computer science & Engg. for Electrical & Electronics Technology, Digital Techniques and Microprocessors.

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.** Nil

8. **Details of courses/programmes discontinued (if any) with reasons**: Nil

9. **Number of teaching posts**

Designation	Sanctioned	Filled		
		Permanent	Regular	Visiting
Professors	03	01	00	01
Associate Professors	07	00	00	00
Asst. Professors	21	04	10	08

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M. Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the last 4 years
Dr. Patil S. P.	Ph.D	Principal & Professor	Electronics Engg	27	04
Mr. Mudegaonkar J. L	M.Tech	Assistant Professor	Electronics Engg	14	Nil
Mr. Joshi A. A.	M.E	Assistant Professor	Electronics Engg	07	Nil
Mr. Parkhe B. A.	M.E	Assistant Professor	Electronics Engg	21	Nil
Mr. Shivpuje D. B.	M.E	Assistant Professor	E & TC Engg.	09	Nil
Mr. Halcherikar R. R.	M.Tech	Assistant Professor	Electronics Engg.	04	Nil
Mr. Lad R. D.	M.Tech	Assistant Professor	Electronics Engg.	02	Nil
Mr. Lambe S. M.	M.Tech	Assistant Professor	Electronics Engg.	05	Nil
Mr. Ghodake Y. S.	M.E	Assistant Professor	E & TC Engg.	03	Nil
Mr. Kore L.J	M.E *	Assistant Professor	E & TC Engg.	07	Nil
Mr. Inamdar M. B.	M.E *	Assistant Professor	E & TC Engg.	03	Nil
Mr. Joshi S. S.	M.E	Assistant Professor	E & TC Engg.	01	Nil
Mr. Hainalkar V. N.	M.Tech	Assistant Professor	E & TC Engg.	01	Nil
Mr. Savekar S. J.	M.Sc, B.Ed, M.phil*	Assistant Professor	Mathematics	07	Nil

Mr. Deshmane A. A.	M.Sc, B.Ed, M.phil*	Assistant Professor	Chemistry	9.5	Nil
Mr. Pawar S. D.	B.E	Assistant Professor	Electrical Engg.	6 months	Nil
Miss. Pawar A. A.	M.E *	Assistant Professor	E & TC Engg.	6 months	Nil
Mr. Patil D. D.	B.E	Assistant Professor	E & TC Engg.	6 months	Nil
Mr. Nagre R. D.	B.E	Assistant Professor	E & TC Engg	6 months	Nil
Mr. Jadhav Y. T.	B.E	Assistant Professor	E & TC Engg.	6 months	Nil
Mr. Jadhav V. G.	B.E	Assistant Professor	E & TC Engg.	6 months	Nil
Mr. K M. Nathgosavi	B.E	Assistant Professor	Electrical Engg.	6 months	Nil

11. **List of senior visiting faculty:**

Name	Qualification	Designation	Specialization	No. of Years of Experience
Prof. Jadhav A. N.	M.E	Assistant Professor	E & TC Engg	20
Prof. Dr. Mulla A. M.	Ph.D	Assistant Professor	Electrical Engg.	22

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. **Student -Teacher Ratio (programme wise)** 1: 15

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled:** Technical staff 01

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

Ph. D faculties	02
P.G faculty	13
P.G pursuing faculty	03
U.G faculty	06

16. **Number of faculty with on going projects from a) National b) International funding agencies and grants received:** Nil

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:** Nil

18. **Research Centre/facility recognized by the University:** No

19. **Publications:**

Name of faculty	Number of publication			
	IJ	**NJ**	**IC**	**NC**
Dr. S.P Patil	08	--	02	34
Mr. Mudegaonkar J.L	--	--	01	02
Mr. Joshi A.A	02	--	02	04
Mr. Parkhe B.A	--	--	02	03
Mr. Shivpuje D.B	03	--	--	03
Mr. Lambe S.M	01	--	--	--
Mr. Halcherikar R.R	--	01	--	01
Mr. Kore L.J	01	--	--	--
Mr. Hainnalkar V. N	01	--	--	--
Mr. Ghodake Y.S	02	--	01	01

20. Areas of consultancy and income generated:
Technical Opinion about project of LED light fitting of shree Vitthal Rukmini mandir samiti. (Expected to provided 5% of total cost as consultancy charges in-process)

21. Faculty as members in:
a) National committees   b) International Committees c)Editorial Boards….

ISTE life Membership   09

22. **Student projects:** 100% In house projects

23. Awards/Recognitions received by faculty and students

Academic Year	Award/ Recognition
2015 – 16	Technofest-2K15 Paper presentation organized at SIE&T Paniv. Winner 1. Kulkarni Bhyagayshree 2. Deshpande Shardha
2014 – 15	Appreciation as event co coordinator for TEXAS instruments India, analog maker contest 2015 1. Prof. Mudegaonkar J.L TEXAS instruments India, analog competition winners 1. Pawar Archana

	2. Patil Geeta
2013 – 14	Runner for project competition (WEENGS 2K14) at SKNCOE, Pandharpur. 1. Anil Dhanawade 2. Sonali Palave 3. Madhuri Kashid

24. List of eminent academicians and scientists/visitors to the department

- Dr. A. M. Mulla, Principal, ADCET, Ashta, Sangli.
- Dr. DilipAldar, KBP COE Satara.
- Mr. R. B. Burud, Executive Engineer, MSDCL, Pandharpur.
- Mr. B. J. Beldar, Sub Divisional Officer, MSDCL, Pandharpur.
- Mr. VinayPatrale, ICWA.
- Dr. Sunil Kore, WCE, Sangli.
- Prof. A. N. Jadhav, Vice Principal, DYP COE, Kolhapur.
- Dr. Archana P. Thosar, Govt. COE, Aurangabad.

25. Seminars/Conferences/Workshops organized & the source of funding

a) National: Nil
  b) International: Nil

26. Student profile programme/ course wise:

Academic Year	Name of the Course/programme	Applications received	Selected	Enrolle *M	Enrolle *F	Pass percentage
2014-2015	B.E 2014-2015	36	36	21	15	94.44 %
2013-14	B.E 2013-14	49	49	24	25	95.91 %
2012-13	B.E 2012-13	13	13	10	03	100 %

*M=Male *F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E (Electronics and Telecommunication Engineering)	100	00	00

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Nil

29. Student progression

Student progression	Against % enrolled
UG to PG	7.14
PG to M. Phil.	Nil
PG to Ph.D.	Nil
Ph.D.to Post-Doctoral	Nil
Employed •Campus selection •Other than campus recruitment	67.34 29.59
Entrepreneurship/Self-employment	1

30. Details of   Infrastructural facilities

a) Library

    1. Area of library: 20 Sq. m.

    2. Seating Capacity: 20 Student

    3. Library holding

Library Holding	No. of Titles	No. of Volumes
Books	46	46
Journals / Periodicals	----	----
E - source	----	-----
News Papers	01	----

b)   Internet facilities for Staff &   Students

ISP – BSNL Broad Band

Lease Line – 10 Mbps

Wi– FI facility – Yes

Firewall - Fortiguard

c) Class rooms with ICT facility

S N	Type of Room	Area in Sq. m.	Capacity	Usages	Equipped With
1	Class Room No.219	100	60	Class room on first floor	Green Board, Internet, Projector with PC
2	Class Room No.224	100	60	Class room on first floor	Green Board, Internet, Projector with PC
3	Class Room No.211	33	20	Tutorial Room	Green Board
4	Seminar Hall 317	132	30	Seminar Presentation	Projector with PC

d) Laboratories

S N	NAME OF THE LAB	LAB AREA	TOTAL INVESTMENT IN RS
1	VLSI/EMBEDED SYSTEM	70 Sq.m	838691.00
2	Computing lab	70 Sq.m	1249857.00
3	Communication lab	70 Sq.m	1811409.00
4	IE CS LAB	100 Sq.m	176515.00
5	BEE Lab	100 sq.m	1070601.00
6	DTMP Lab	70 Sq.m	330486.70
7	Basic Electronic Lab	100 sq.m	584466.20
8	AVM Lab	100 sq.m	671449.00
9	Project lab	100 sq.m	269466.25
10	PCB Lab	70 sq.m	237938.00
	TOTAL		7240929.15

31. Number of students receiving financial assistance from college, university, government or other agencies:

Financial Assistance from government:

- Students of backward class such as SC, ST, VJ, NT, SBC can apply for scholarship through which student get 100% tuition fee reimbursement.
- Students of OBC get 50% tuition fees reimbursement
- Students from open, but whose guardians annual income is less than 1 lakh will get 50% tuition fee reimbursement.
- 5% of intake seats are filled under TFWS (Tuition Fees Waivers Scheme) on merit basis through which 100% tuition fee is exempted.
- PTC/STC scholarship is given to the student whose guardian is Primary/Secondary school teacher.
- Scholarship for minority class is also available.

Financial Assistance from College:

- For economically weak student college provide fee concession in tuition fee/ hostel fee/mess charge.
- Earn and learn scheme is also implemented in college.

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts:

S N	Name of Guest	Date	Lecture/Workshop/ Seminar	Target Students	Remuneration paid
Academic Year 2012-13					
1	Bidwai S.S(ADCET Ashta)	9/9/12	VLSI DESIGN	B.E	1500
2	Sodal G.K (BIGCE)	21/9/12	VLSI DESIGN	B.E	1200
3	Dr. A.M Mulla(ADCET Ashta)	20/9/12	EME	T.E	5750
4	R.D Lad (islampur)	23/8/12 – 31/8/12	VLSI DESIGN	B.E	7000
5	R.D Lad (islampur)	06/9/12 – 28/9/12	VLSI DESIGN	B.E	11000
6	Dr. A.M Mulla(ADCET Ashta)	17/02/12	EME	T.E	5750
7	Akkewati (PCB Design	11/08/12- 12/08/12	PCB Design	SE,TE & BE	------

	Services)				
Academic Year 2013-14				
8	G.R Sahasrtabudhe	05/03/13	Maintenance of electronic instruments	SE,TE & BE	--------
9	Dilip Aldar (KBPCOE)	16/10/13	EME	T.E	4250
10	Bidwai S.S(ADCET Ashta)	17/08/13	VLSI DESIGN	B.E	3000
11	Smitha Shinde (ADCET)	29/09/13	EME	T.E	3000
12	Bidwai S.S(ADCET Ashta)	29/09/13	VLSI DESIGN	B.E	3000
13	Dr. A.M Mulla(ADCET Ashta)	13/10/13	EME	T.E	6150
14	Dilip Aldar (KBPCOE)	15/09/13	EME	T.E	4250
15	A.N Jadhav (D.Y. PATIL COE KOLHAPUR)	23/03/13 – 25/03/13	ECAD –II	S.E	17100
Academic Year 2014-15				
16	Mr Kulkarni (Falcon Mumbai)	14/09/14	Antenna Design Fabrication and link budget	SE,TE & BE	-----
17	Dr. A.M Mulla(ADCET Ashta)	11/03/15	EME	T.E	5400
Academic Year 2015-16				
18	Prof. Khogare M.G (MBE's COE, Ambejogai)	22/7/15 & 23/715	EMERS & VLSL	T.E, B.E	5500
19	Dr. A.M Mulla(ADCET Ashta)	19/8/15	EMERS	T.E	6150
20	Texas Instruments Analog Maker	04/03/2015	Texas Instruments Analog Maker compotation	S.E,T.E,B.E	

33. Teaching methods adopted to improve student learning
Student learning is center for the programme. The different teaching methods are adopted for improving student learning as listed below.
 1. Lecture   2. Laboratory Session   3. Demo
 4. Group Discussion   5. Seminar   6. Industrial Visit
 7. Guest lecture.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

35. SWOC analysis of the department and Future plans
Strengths:

- Department library is enriched with adequate books.
- Good infrastructure for all E&TC labs, staff cabins and HOD cabin.
- Department arranges guest lecturers for difficult subjects like EME.
- Regular teaching activity is followed with defined time table.
- News papers are made available daily in the department.
- Good teaching quality.

Weakness:

- Campus placements of students are being done, where are reluctant to work.
- Every classroom must have its own projector.
- Workshops on programming languages should be arranged.
- Quality of students getting admitted is poor.
- Post Graduate courses are required.
- Lack of technical assistants.

Threats:
- Retention of qualified staffs.
- Employment opportunities to the students in current scenario is less..
- Less number of students is admitted to the department.

Opportunities:

- Post Graduation courses need to start.
- Department research center must be set up.
- Faculty up gradation in context with Research.

Department of Computer Science and Engineering

1. **Name of the Department**   : Computer Science and Engineering
2. **Year of Establishment**   : 2009
3. **Name of Programmes/Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc) :**

Programme of Study	Description
UG in Computer Science & Engineering	**60** seats from 2009

4. **Names of Interdisciplinary courses and the Departments/units involved:** No
5. **Annual/semester/choice based credit system (programme wise):** Semester Wise
6. **Participation of the department in the courses offered by other departments:** Yes
7. **Courses in collaboration with other universities, Industries, foreign Institutions etc. :** No
8. **Details of courses/programmes discontinued (if any) with reasons:** No
9. **Number of teaching posts :**

	Sanctioned	Filled		
		Permanent	**Regular**	**Visiting**
Professors	01	00	00	00
Associates Professors	04	00	00	00
Asst. Professors	11	00	14	02

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,):**

S N	Name of faculty	Qualification	Designation	Specialization	Experience (Years)	No.of Ph.D. Student guided For the last 4 years
1	Prof.Yogesh Shankarrao Lonkar	M.Tech	Asst. Professor	SE	9	-
2	Prof. Sarang Mukund Kulkarni	M.Tech	Asst. Professor	CSE	10	-
3	Prof. Sarthak Santosh Vora	ME	Asst. Professor	Com	4	-
4	Prof. Mahendra Sudhir Sawane	ME	Asst. Professor	CSE	4	-
5	Prof. Sachin Shankar Ghalame	ME (Pursuing)	Asst. Professor	CSE	4	-
6	Prof. Dipak Vijaykumar Bhosale	ME (Pursuing)	Asst. Professor	CSE	4	-
7	Prof. Srikant Purshottam Bhosale	ME (Pursuing)	Asst. Professor	CSE	4	-

8	Prof. Panchal Vishwakarma Vijaykumar	ME (Pursuing)	Asst. Professor	CSE	4	-
9	Prof. Manoj Vitthal Mali	ME (Pursuing)	Asst. Professor	CSE	3	-
10	Prof. Miss. Prajkata Kantilal Mitkal	ME (Pursuing)	Asst. Professor	CSE	4	-
11	Prof. Miss. Rupali Nivrutti Pawar	ME (Pursuing)	Asst. Professor	CSE	2	-
12	Prof. Nitin Maruthi Maske	ME (Pursuing)	Asst. Professor	CSE	2	-
13	Prof. Deshmukh Baliram Bhimrao	ME (Pursuing)	Asst. Professor	CSE	2	
14	Prof. Pampatwar Govindraj Shankar	MA.MPhil.PhD(Pursuing)	Asst. Professor	English	5	-

11. List of senior visiting faculty

S N	Name of the Person	Name of Organization
1	Dr. Udupai V. R.	GIT, Belagavi
2	Prof. Ligade Sunil	AMGOI, Vathar

12. **Percentage of lectures delivered and practical classes handled(Programme wise)by temporary faculty :** 0%

13. **Student-Teacher Ratio(Programme wise) STR is desired to be 15 or superior** :15:1

14. **Number of academic support staff(technical) and administrative Staff; sanctioned and filled**

	Sanctioned	Filled
Support Staff(technical)	03	03
Administrative Staff	-	-

15. Qualification of teaching faculty with DSc/D.Lit/Ph.D/Mphil/PG.:

S N	Name of faculty	Qualification
1	Prof. Yogesh Shankarrao Lonkar	M. Tech(SE)
2	Prof. Sarang Mukund Kulkarni	M. Tech(CSE)
3	Prof. Sarthak Santosh Vora	ME(Comp)
4	Prof. Mahendra Sudhir Sawane	ME(CSE)
5	Prof. Sachin Shankar Ghalame	ME(CSE Pursuing)
6	Prof. Dipak Vijaykumar Bhosale	ME(CSE Pursuing)
7	Prof. Srikant Purshottam Bhosale	ME(CSE Pursuing)
8	Prof. Panchal Vishwakarma Vijaykumar	ME(CSE Pursuing)
9	Prof. ManojVitthal Mali	ME(CSE Pursuing)
10	Prof. Miss. Prajkata K Mitkal	ME(CSE Pursuing)
11	Prof. Miss.Rupali Nivrutti Pawar	ME(CSE Pursuing)
12	Prof. Nitin Maruthi Maske	ME(CSE Pursuing)
13	Prof. Deshmukh Baliram Bhimrao	ME (CSE Pursuing)
14	Prof. Pampatwar Govindraj Shankar	MA.MPhil.PhD(Pursuing)

16. Number of faculty with ongoing project from a) National b)International funding agencies and grants received: Nil

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:** No

18. **Research Centre/facility recognized by the University:** No

19. **Publication:**

a) Publication per faculty

S N	Name of faculty	Publication			
		International Conference	International Journal	National Conference	Workshop
1	Prof. Yogesh Shankarrao Lonkar	02	01	-	05
2	Prof. Sarang Mukund Kulkarni	-	01	01	-
3	Prof. Sarthak Santosh Vora	02	-	01	01
4	Prof. Mahendra Sudhir Sawane	01	01	02	02
5	Prof. Sachin Shankar Ghalame	-	-	-	02
6	Prof. Dipak Vijaykumar Bhosale	04	03	-	07
7	Prof. Srikant Purshottam Bhosale	03	02	-	03
8	Prof. Panchal	01	-	-	-

	Vishwakarma Vijaykumar				
9	Prof. Manoj Vitthal Mali	01	-	-	-
10	Prof. Miss. Mitkal P. K	01	01	-	01
11	Prof. Miss. Rupali Nivrutti Pawar	-	-	-	-
12	Prof. Nitin Maruthi Maske	-	-	-	-

b) Number of papers published in peer reviewed journals (national/international) by faculty and students.

SN	Name of the student	Name of the Faculty	Title of the paper	Year of publication
1	Mr.Vishal H. Ingale	Prof. Bhosale D. V.	Climate Based Crop Advisor for Sugarcane and Pomegranate	2014-15
2	Mr. Indrajit A Padaval			
3	Mr. Jotiram J Jadhav			
4	Mr. Baban M Mane			
1	Mr. Rushikesh S. Shinde	Prof. Bhosale D. V.	Pandharpur City Android Application	2014-15
2	Mr. Balaji D. Asabe,			
3	Mr.Vinod D. Jadhav			
4	Mr.Ganesh N.Bagal			
1	Ms. Thite Sonali S	Prof. Lonkar Y. S.	Android Based Speech Recognition	2014-15
2	Mr. Gore Archana S			
3	Ms. Yelamar Sagar S			

20. Areas of consultancy and income generated: Nil

21. Faculty as member in :

    a.   National committees   : No

    b.   International Committees   : No

    c.   Editorial Boards   : No

22. Student projects

    a.   Percentage of students who have done in-house project including inter Departmental/programme: 100%

    b.   Percentage of students placed for projects in organizations outside the Institution i.e. in Research laboratories? Industry/other agencies: Nil

23. Awards / Recognitions received by faculty and students

S N	Name of the organizing Institute	Name of the Event	Name of contest/ competition	Names(s) of the Student(s)	Award	Year
1	IIT,Bombay	Spoken Tutorial	Best Question	Prof. Bhosale D. V.	1st Prize	2015-16
2	KEC ,Texas Instrument university ,Edgate,	Analog maker contest 2014	Analog maker contest 2014	Miss. Pawar P. S.	1st Prize	2014-15
3	KEC ,Texas Instrument university ,Edgate,	Analog maker contest 2014	Analog maker contest 2014	Miss. Tite S. S.	1st Prize	2014-15
4	NIIT, Pandharpur	INTERACT 2K15	Paper Presentation	Miss. Pawar P. M.	1st Prize	2014-15
5	NIIT Pandharpur	INTERACT 2K15	Paper Presentation	Miss. Salunkhe V. H.	1st Prize	2014-15

24. List of eminent academicians and scientists / visitors to the department:

S N	Name of Resource Person	Name of the Institution/Organization
1	Prof. Hemant Kumbhar	SVPM's COE, Malegaon
2	Prof. Kokare A. J.	VP's COE , Baramati
3	Mr. Bhosale A.V.	Extentia Information Technology, Pune
4	Prof. Kare S. S.	VP's COE , Baramati

25. Seminars/Conference/Workshop organized & the source of funding
a. National-No
b. International-No

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Application recived	Selected	Enrolled		Pass Percentage
			*M	*F	
ACE 2012-2013	17	17	10	07	100
ACE 2013-2014	59	59	33	26	93.22
ACE 2014-2015	38	38	22	16	94.73

27. Diversity of Students

Name of the Course	% of students from The same state	% of students from other States	% of students From abrod
SE	100	-	-
TE	100	-	-
BE	100	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : Nil

29. Student progression

Student Progression	ACE 2012-2013 Against % enrolled	ACE 2013-2014 Against % enrolled	ACE 2014-2015 Against % enrolled
UG to PG	11.76	8.47	Nil
PG to M.Phil	Nil	Nil	Nil
PG to Ph.D	Nil	Nil	Nil
Ph.D. to Post-Doctoral	Nil	Nil	Nil
Employed Campus selection Other than campus recruitment	70.58 Nil	47.27 Nil	15.78 Nil
Entrepreneurship/Self-employment	Nil	Nil	15.78

30. Details of Infrastructural facilities

a. Library:

The departmental library provides following facilities

1) No.of Book available for CSE dept:

i.   Text Books: **00**

ii. Reference Books: **30**

iii. Competitive Exam Books: **30**

2) E-Journals Access.

3) Printing Facility.

4) CD's/DVD are for different courses of studies (NPTEL).

5) Copies of Project Reports.

6) Copies of Seminar Reports.

7) Copies of subject-wise toppers university exam answer sheets.

8) Study Section.

b. Internet facilities for Staff & Students:

Name of Internet provider	BSNL
Available bandwidth	10 Mbps
Access speed	1:1
Availability of internet in an exclusive lab	Yes
Availability of in most computing labs	Yes
Availability in departments and other units	Yes
Availability in faculty rooms	Yes
Security / privacy to e-mail / internet users	Yes

c. Class rooms with ICT facility: Yes

      Following ICT Facility provided in class rooms:

    i.   Internet

    ii.   Projector

    iii.   Projector Screen

d. Laboratories:

The laboratories are well equipped with computer; all the systems are with required Configuration, required installed software (Licensed copy).

Laboratory Description in Curriculum	Exclusive Use/ shared	Space (Sq.m), Number of students	List of respective Subject labs	Quality of Instruments	Laboratory Manuals
Linux Lab	Shared	68	1.Operating System Concepts	**Excellent** 1.Computers: Model : DELL	Available

				Vostro 220 CPU : Processor: Pentium (R) Dual-Core RAM: 1.00 GB HDD: 160 GB Monitor (Dell) Keyboard (Dell) Mouse (Dell) 2.Computers Model: Dell Vostro 230 Processor: Intel(R) Core(TM) DUO CPU RAM: 2.00 GB Hard disk: 320 GB Monitor KEYBORD MOUSE	
Programming Lab-I	Shared	68	1.Advanced C Concepts 2.Compiler Constuction	**Excellent** 1.Computers: Model : DELL Vostro 220 CPU : Processor:	Available

			3.System Programming	Pentium(R) Dual-Core
				RAM: 1.00 GB
				HDD: 160 GB
				Monitor (Dell)
				Keyboard (Dell)
				Mouse (Dell)
				
				2.Switch -24 Port D Link
				
				3.Computers
				Model: Dell Vostro 230
				  a) Processor: Intel(R) Core(TM) DUO CPU
				     RAM: 2.00 GB
				     Hard disk: 250 GB
				     Monitor
				     KEYBORD
				      MOUSE
				4.Printer (Dot Matrix Printer)
				 TVS MSP 450 CHAMPION	

| PROJECT LAB | Shared | 68 | 1.Object Oriented Design and Programming 2.Computer Graphics | **Excellent** 1.Computers: Model : DELL Vostro 220 CPU : Processor: Pentium(R) Dual-Core RAM: 1.00 GB HDD: 160 GB Monitor (Dell) Keyboard (Dell) Mouse (Dell) **2.**Switch-24 Port D Link **3.** LCD Projector Sony ES-5 4. Computers Model: Dell Vostro 230   Processor: Intel(R)   Core(TM)   DUO   CPU   RAM: 2.00 GB   Hard   disk: 250 GB | Available |

				Monitor KEYBORD MOUSE 5. Printer (Dot Matrix Printer) TVS MSP 450 6.InkJet Printer HP DJ 1000	
Advanced Software Lab	Shared	71	1.Java Programming 2.Advanced Java Proramming 3.Distributed System	**Excellent** 1.Computers Model: Dell Vostro 230 Processor: Intel(R) Core(TM) DUO CPU RAM: 2.00 GB Hard disk: 250 GB Monitor KEYBORD MOUSE 2. Samsung DVDWriter 3. Laser Printer	Available

				Cannon 2900 4. Crimping Tool DLink 5. Dot Matrix Printer TVS MSP 240 Star	
Database LAB	Shared	68	1.Modern Database System 2.Database Engineering	**Excellent** 1. Computers Model: Dell Vostro 230 Processor: Intel™ Core™ DUO CPU RAM: 2.00 GB Hard disk: 320 GB Monitor (Dell) Keybord (Dell) Mouse (Dell 2.HDD Trans 500 GB EXT	Available

				3. Laser Printer Cannon 2900	
				4. Dell Optiplex 390 Processor :Core i3 RAM: 2GB HDD: 500 GB	
				5. I Boll Rokey Head Set with mic Serial 12346	
				6. I Boll Table Top Mic M27	
				7. Easycap Video & Audio Computing device	
Project LAB-II	Shared	68	1.Computer Programming in C	**Excellent** 1. Thin Client (K/B + Mouse Microsoft 600 USB N-Computing Kit L-230 18.5	Available

				DELL LED E 1912 LT) Monitor (Dell) Keyboard(Micros oft) Mouse (Microsoft)	
Programmi ng Lab-II	Shared	68	1.Python	**Excellent** 1.Thin Client (K/B + Mouse Microsoft 600 USB N-Computing Kit L-230 18.5 DELL LED E 1912 LT) Monitor (Dell) Keyboard (Microsoft) Mouse (Microsoft)	Available
Network Lab	Shared	68	1.Computer Network	**Excellent** 1. Computers: Model : DELL Vostro 220 CPU : Processor: Pentium(R) Dual-Core RAM: 1.00 GB HDD: 160 GB	Available

				Monitor (Dell) Keyboard (Dell) Mouse (Dell) 2. Computers Model: Dell Vostro 230 a) Processor: Intel(R) Core(TM) DUO CPU RAM: 2.00 GB Hard disk: 320 GB Monitor KEYBORD MOUSE	
Web Programing	Shared	68	1.VB 2.Web-Technology	**Excellent** 1. Computers Model: Dell Vostro 230 Processor: Intel(R) Core(TM) DUO CPU RAM: 2.00 GB Hard disk: 320 GB Monitor	Available

				KEYBORD MOUSE	
Language LAB	Shared	68	1.Communication Skills	**Excellent** **1.**Dell Optiplex 390 Processor :Core i3 RAM: 2GB HDD: 500 GB 2. Mike HP Circle Concentro Headphone	Available

31. Number of Students receiving financial assistance from college, university, government or other agencies

- Economically weaker students of SC,ST ,OBC and OC ,whose parent income is less than 4.5 Lakh per annuam get tuition fee reimbursement and scholarship from state Government
- Apart from this students are also getting scholarships from Government agencies like social welfare/GATE stipend for qualified candidates/scholarships sponsored by AICTE.
- Some of the students getting financial assistance from the college for presentation of the papers and for attending conferences/workshops.

32. A detail on student enrichment programmes (special lectures / workshops / seminar) with external experts.

S N	Name of the Person	Name of Organization	Subject	Class	Date
1	Miss. Satarkar P.A.	SVERI, Pandharpur	Compiler Construction	TE	18-01-2012
2	Miss. Deshmane K.A.	SVERI, Pandharpur	Operating System-II	TE	25-01-2012
3	Mr. Korake A.G.	SVERI, Pandharpur	Computer Network-I	SE	18-02-2012
4	Miss. Patil Amita	Dr. JJMCE Jaysingpur	Compiler Construction	TE	16-04-2012
5	Mr. Nejkar R.S.	ADCET, Ashta	Formal System & Automata	SE	20-04-2012
6	Mr. Mustary N.R.	SVERI, Pandharpur	System Programming	TE	04-07-2012
7	Mr. BurudR.B. Mr. Beldar B.J.	Executive Engineer, MSDCL, Div-Pandharpur. Sub-Divisional Officer, Pandharpur.	Guest of honour for Hack-Tricks 2013 National Level workshop	SE TE BE	15-09-2012
8	Mr. Jagtap R.S.	BMIT, Solapur	VC++	BE	26-09-2012

9	Mr. Nanaware S.T.	SVERI, Pandharpur	Formal System & Automata	SE	20-03-2013
10	Mr. Pawar S.P.	SVERI, Pandharpur	Advanced C Concept	SE	07-08-2013
11	Mrs. Jadhav V.D.	SVERI, Pandharpur	Operating System-I	TE	13-08-2013
12	Mr. Kumbhar Hemant	SVPMS, Baramati	Theory of Computation	SE	03-04-2014
13	Mr. Jagtap R.S.	BMIT, Solapur	Compiler Construction	TE	04-04-2014

33. Teaching methods adopted to improve student learning.

1. Conducting remedial coaching classes for the poor achievers.

2. Once in a semester, industrial visit has been planned.

3. Activities like seminars and group discussion are carried out in ECA sessions.

4. Soft skill training programs are conducted.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities :

Through the NSS, Students of our department has participated in various social activities like Blood donation camp on the various occasions, Tree plantation programme in college campus.

35. SWOC analysis of the department and Future plans

a. Strengths:

- Department has well equipped Computer Laboratory with internet facility.
- Conducting remedial coaching classes for the poor achievers.
- Devoted Faculty and Supporting Staff.
- Academic Performance of students.
- Developing computer operating skills to non-Computer Science supporting staff members.

b. Weakness :

- Consultancy and Research not up to expectations.

- No Patents and / or Intellectual property rights established by department.

c. **Opportunities :**

- Higher education and research areas to be explored.

d. **Challenges :**

- To involvement of industry professionals live projects to students.
- To develop patentable Ideas and getting support systems for the same.

e. **Future plans:**

- Initiate P.G Program.
- Promote to students for more research project in the department.
- Promote faculties for Ph.D.
- To sign more MOU's with the industries.
- Promote to students for inter-disciplinary projects.

Annxure I: AICTE Approval Letter

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Western/1-2450719196/2015/EOA

Date: 07-Apr-2015

To,
The Secretary,
Tech. & Higher Education Deptt.
Govt. of Maharashta, Mantralaya,
Annexe Building, Mumbai-400032

Sub: Extension of approval for the academic year 2015-16

Ref: Application of the Institution for Extension of approval for the academic year 2015-16

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Western	Application Id	1-2450719196
		Permanent Id	1-13499321
Name of the Institute	KARMAYOGI ENGINEERING COLLEGE, SHELVE, PANDHARPUR.	Institute Address	GAT NO. 124 AND 125, AP. SHELVE, TAL. PANDHARPUR, DIST. SOLAPUR. PIN 413304. MAHARASHTRA, SHELVE, SOLAPUR, Maharashtra, 413304
Name of the Society/Trust	SHRI PANDURANG PRATISHTHAN PANDHARPUR, SHELVE-PANDHARPUR	Society/Trust Address	A/P.SHELVE, TAL. PANDHARPUR.,PANDHARPUR,SOLAPUR,Maharashtra,413304
Institute Type	Unaided - Private		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2015-16

Application Number: 1-2450719196*

Page 1 of 3

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:11 April 2015

Printed By : AE4178911

Karmayogi Engineering College - SSR

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All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2450719196			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUA TE	CIVIL ENGINEERING	FULL TIME	Solapur University , Solapur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUA TE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Solapur University , Solapur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUA TE	ELECTRONICS & TELE-COMMUNICATION ENGINEERING	FULL TIME	Solapur University , Solapur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUA TE	MECHANICAL ENGINEERING	FULL TIME	Solapur University , Solapur	120	120	NA	NA	NA

Note: Validity of the course details may be verified at www.aicte-india.org>departments>approvals

The above mentioned approval is subject to the condition that KARMAYOGI ENGINEERING COLLEGE, SHELVE, PANDHARPUR. shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Dr. Avinash S Pant
Actg Chairman, AICTE

Application Number: 1-2450719196*

Note: This is a Computer generated Letter of Approval.No signature is required.

Page 2 of 3

Letter Printed On:11 April 2015

Karmayogi Engineering College - SSR   **263**

Annxure II: Solapur University, Solapur Affiliation Letter

सोलापूर विद्यापीठ
सोलापूर-पुणे राष्ट्रीय महामार्ग, केगांव
सोलापूर - ४१३ २५५ (महाराष्ट्र)
Website : http://su.digitaluniversity.ac
EPABX No. : +91-0217-2744771, 72,73,74,78,79

SOLAPUR UNIVERSITY
Solapur-Pune National HIghway, Kegaon
SOLAPUR - 413 255 (Maharashtra)
Fax : +91-0217-2744770

Ref. No. : SUS /
जा.क्र. सोविसो/मविविमं/संलग्नता/ १२५९

संलग्निकरणाचे नुतनीकरण मान्यता पत्र

Date :
1 4 MAY 2015 दिनांक:

मा.कुलगुरू महोदयांच्या अधिकारात
(विद्यापरिषदेच्या वतीने)
प्रति,
मा.प्राचार्य,
कर्मयोगी अभियांत्रिकी महाविद्यालय,
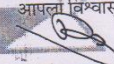शेळवे. ता. पंढरपूर,
जि.सोलापूर.

विषय :- शै.वर्ष २०१५-१६ पासून अभियांत्रिकी (Civil, CSE, E&TC, Mech. Engg) भाग १ ते ४ या अभ्यासक्रमाच्या संलग्निकरणाच्या नुतनीकरणाबाबत.

संदर्भ :- १. दि.२३/०२/२०१५ रोजी प्राप्त झालेला स्थानिक चौकशी समितीचा अहवाल.
२. या कार्यालयाचे पत्र क्र. सोविसो/मविविमं/संलग्नता/२७८, दि.१५/०४/२०१५.
३. आपला अटीपूर्तता अहवाल जा.क्र.केईसी/ऑफिलेशन/१७०२/२०१४-१५, दि.०५/०५/२०१५.

महोदय,

उपरोक्त विषयास अनुसरुन आपणास कळविण्यात येते की, आपल्या महाविद्यालयाच्या शै.वर्ष २०१५-१६ पासून अभियांत्रिकी (Civil, CSE, E&TC, Mech. Engg) भाग १ ते ४ या अभ्यासक्रमाच्या संलग्निकरणाच्या नुतनीकरणासंदर्भात नियुक्त केलेल्या स्थानिक चौकशी समितीने दिलेला अहवाल, त्याअनुषंगाने आपणं सादर केलेल्या अटीपूर्तता अहवालास अनुसरून महाराष्ट्र विद्यापीठ कायदा १९९४ कलम १४(७) अन्वये मा.कुलगुरू महोदयांच्या अधिकारात विद्यापरिषदेच्या वतीने आपल्या महाविद्यालयास खालील नमूद अटीपूर्ततेच्या अधिन राहून मान्यता दिलेली आहे.

| अ.क्र.	अभ्यासक्रम	संलग्निकरणाचा प्रकार	संलग्निकरणाच्या मान्यतेची मुदत
१	अभियांत्रिकी (Civil, CSE, E&TC, Mech. Engg) भाग १ ते ४	संलग्निकरणाचे नुतनीकरण	शै. वर्ष २०१५-१६ (एक वर्ष)

● अटी:
1) Institute shall fill all vacant post of teachers through university approved selection committee.

उपरोक्त अटींची पूर्णपणे पूर्तता करुन अटीपूर्तता अहवाल आवश्यक त्या कागदपत्रासह लवकरात लवकर या कार्यालयास सादर करावा. कोणत्याही परिस्थितीत ३० जून, २०१५ पर्यंत उपरोक्त अटींची पूर्णपणे पूर्तता न केल्यास आपल्या महाविद्यालयाविरुध्द दंडात्मक कारवाई करण्यात येईल, याची नोंद घेण्यात यावी.

वरील संलग्निकरणाबाबत प्रत्येक अभ्यासक्रमासाठी/विषयांसाठी जास्तीत जास्त किती विद्यार्थ्यांना प्रवेश देता येईल याबाबत विद्यापीठाने घातलेली मर्यादा आणि इतर अटींचे सहाविद्यालयांकडून पालन करण्यात यावे.

आपला विश्वासू,

[संचालक]
महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत:-
१. मा. संचालक तंत्र शिक्षण संचालनालय, महाराष्ट्र राज्य, मुंबई.
२. मा.सहसंचालक, तंत्र शिक्षण विभागीय कार्यालय, महाराष्ट्र राज्य, पुणे.
३. परीक्षा विभाग, पात्रता विभाग व मा.समन्वयक एम.के.सी.एल सोविसो.

SHRI PANDURANG PRATISHTHAN PANDHARPUR'S

KARMAYOGI ENGINEERING COLLEGE

(Approved by AICTE New Delhi, Govt. of Maharashtra & Affiliated to Solapur University)

E - mail : k ecmailbox@rediffmail.com   Web : www.kecpandharpur.com
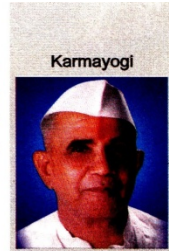
Karmayogi

Hon.Sudhakarpant Paricharak

O.NO/KEC/NAAC/SSR/391/2015-16

Certificate of Compliance

This is to certify that **Karmayogi Engineering College** fulfills all norms

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: 03/10/2015

Place: Shelve, Pandharpur

Principal

Dr. S.P Patil

Gat No. 125, AP. Shelve, Tal. Pandharpur, Dist. Solapur Pin - 413304 ☎ (02186) 250200 / 250300

Annxture IV: LOI Form

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
(An Autonomous Institution of the University Grants Commission)
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

	LOI submitted date	06/04/2015
1	Process and Cycle	ACCREDITATION, Cycle: 1
2	Institution Name	KARMAYOGI ENGINEERING COLLEGE
3	Name of the Head of the Institution	DR.S. P. PATIL
3a	Designation	PRINCIPAL
4	Address	GAT NO 124-125, AT PO- SHELVE, TQ- PANDHARPUR, DIST - SOLAPUR
	City	PANDHARPUR
	State	MAHARASHTRA
	Pin code	413304
	Phone no.	02186 250300 02186 250301
	Mobile no	9503763370 9665979656
	Fax	02186 250305
	Email	kecmailbox@rediffmail.com principal@karmayogiengg.com
	Website	www.karmayogiengg.com
5	Date of Establishment	15/08/2009
5a	Have two batches of students graduated from the college	Yes
6	Is the College recognized under section 2f of UGC act?	No
6a	Date of Recognition by UGC under 2f	
	Uploaded UGC 2f certificate	
7	Is the College recognized under section 12B of UGC act?	No

7a	Date of Recognition by UGC under 12(B)	
	Uploaded UGC 12B certificate	
7b	Name of the university to which the college is Affiliated or of which the college is Constituent	SOLAPUR UNIVERSITY, SOLAPUR
	State in which affiliating university is located	MAHARASHTRA
	Type Of Affiliation	TEMPORARY
	Uploaded Certificate	SUSCONAPP.PDF
7c	If the institution is not affiliated to a university,does it offer any programmes recognized by any Statutory Professional Regulatory (SPR) Council which is equivalent to a post graduate programme of a university	No
	Name of the Programmes	
	Name of SPR Council recognizing it	
	Equivalent University degree	
8a	Is the institution recognised as an Autonomous College by the UGC?	No
	Autonomous Date	
	Uploaded Certificate	
8b	Is the institution recognised as College with 'Potential for Excellence(CPE)' by the UGC	No
	CPE Date	
	Uploaded Certificate	

8c	Is the college offering any programmes by any Statutory Regulatory Authority(SRA)?	Yes
	Statutory Regulatory Bodies	AICTE
	Uploaded certificate of recognition by SRA	CORRIGENDUM REPORT FOR EOA 2014-2015.PDF
9a	Nature of the college	PRIVATE SELF FINANCING
9b	Number of degrees offered	Certificate: : Diploma: : UG: :4 PG: : PG Diploma recognized by statutory authority: : Research: : Others: :
9c	Details of degrees offered	Arts: :NOT APPLICABLE Commerce: :NOT APPLICABLE Science: :NOT APPLICABLE Education: :NOT APPLICABLE Health Sciences: :NOT APPLICABLE Engineering and Technology: :B.E(CIVIL ENGG),B.E (COM SCI& ENGG),B.E (E&TC ENGG)&B.E(MECH. ENGG) Management: :NOT APPLICABLE Others: :NOT APPLICABLE
10	Whether Teacher Education / Physical Education department is opting for A&A process separately?	No

11	Total Number of Teaching Staff Non-Teaching Staff Students	59 25 741	
12	Date of establishment of IQAC		