Self-Study Report (SSR)

for the Accreditation
of

Kolhapur Institute of Technology's

College of Engineering, Kolhapur

Submitted to

National Assessment and Accreditation Council, Bangalore

September 2014

VISION

To be the Centre of Excellence in technical education and preferred choice of Students, Industry and Society

MISSION:

- To empower the Faculty, Staff and Aspiring Engineers with essential technical knowledge and skills
- To develop competence towards serving the ever changing needs of Industry and Society
- To inculcate social and ethical values amongst the students and employees
- To strengthen collaborative research and consulting environment with industry and other institutions

OBJECTIVES:

- To organize short duration courses, conferences and seminars for faculty and students on current technological developments
- To conduct skill enhancement Programs for support staff
- To organize value addition training Programs for students to bridge the gap between professional requirements and curriculum
- To conduct training programs for developing soft skill, corporate etiquettes and manners for students and faculty
- To arrange social and environmental awareness activities
- To practice ethical values in all day to day activities
- To develop centres of excellence in various disciplines
- To enter into Memorandum of Understanding with research institutes and industry

CONTENTS

1. PREFACE

Education sector, especially, technical education sector is growing at a rapid pace in our country. The growth in quantity has to be matched with the developments on quality front. National Assessment and Accreditation Council (NAAC) has the objectives to facilitate the improvement of quality through accreditation, bring more transparency in the accreditation process, to introduce 360 degree feedback mechanism, to reduce subjectivity, to enhance credibility and to evolve a system of accreditation at par with the international standards.

By imbibing and adhering to the cherished values and beliefs of KIT, I am sure that K.I.T's College of Engineering will certainly reach greater heights in the field of technical education, in the years to come. The institute has grown in stature since its establishment in 1983, thanks to dedicated faculty, staff and hard-work and commitment shown by the student fraternity.

"Today we are counted as one of the Best Engineering Colleges in the region and preferred institution. But in a few years from now, we would like to be counted as one of the best institutions in the Nation" – is the vision of our Chairman and Trustees. The infrastructure of the institution is excellent with state-of-the-art laboratories, digital library, Wi-Fi campus, well furnished hostels for boys and girls, to mention a few.

The Institute is well set for the FIRST Cycle Accreditation by NAAC which is very likely to take place in the month of Nov., 2014. In view of this, it is our pleasure to submit our Self Study Report (SSR) to the NAAC, Bangalore.

The very fact that the SSR of this quality has been brought out with the concerted efforts of faculty and staff, itself speaks volumes of their involvement, commitment and an ambition to excel in whatever they do.

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.

PRINCIPAL

2. EXECUTIVE SUMMARY

During 1975, a small Industrial cluster of Kolhapur at Shivaji Udyamnagar commenced growth by shifting to nearby developed MIDC Industrial estate. The activities extended to the extent that industrialists in this area felt shortage of technically qualified engineers. To overcome this drought of availability of engineers, local industrialists in association with leading architects and academicians, conceived commencement of a technical Institute in 1980.

In 1981, a vibrant team of leading Industrialists, Architects, Eminent Educationists with local base, international access and global vision came together to give concrete shape to their dreams. That's how KIT's College of Engineering was born. This is amongst the first Engineering institutes in Maharashtra started on no grant/self financed basis, affiliated to Shivaji University, Kolhapur.

The Institute possesses a standing as a distinguished technological Institute. The trustees have a definite road map and they have embarked upon a commitment to transform this institute into National Centre of Excellence.

Vision:

To be the Centre of Excellence in Technical Education and preferred choice of Students, Faculty, Industry and Society

Mission:

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- To develop competence towards serving the ever changing needs of Industry and Society

- To inculcate Social and Ethical values amongst the Students and Employees

- To strengthen collaborative research and consulting environment with industry and other institutions

Objectives:

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- To conduct skill enhancement programmes for support staff

- To organize value addition training programmes for students to bridge the gap between professional requirements and curriculum

- To conduct training programmes for developing soft skill, corporate etiquettes and manners for students and faculty

- To arrange social and environmental awareness activities

- To practice ethical values in all day to day activities

- To develop centres of excellence in various disciplines

- To enter into Memorandum of Understanding with research institutes and industry

Today, all over the world the society has moved towards a knowledge centric structure where specialization is a key to the future. For this, highly qualified and skilled personnel are needed. Hence, the Institute's endeavour is to identify growth areas and groom talent of the professionals that will keep India in the forefront.

Over the years the Institute has grown into an Institute of repute offering nine under graduate programmes viz. Electronics Engg., Environmental Engg., Civil Engg., Computer Science and Engg., Information Technology, Biotechnology Engg., Mechanical Engg. and Electronics and Telecommunication Engg.; 4 Post Graduates programmes viz. M.E. in Electronics and Telecommunication Engineering, M.E. in Mechanical-Production Engineering, M.E. in CAD/CAM/CAE, M.E. in Biochemical Engineering and Biotechnology with annual intake of 660 at UG and 72 at PG level and total strength of 2934 students. The institute has established Research Centres to offer Ph.D. programmes.

All the UG programmes offered by the Institute have been accredited by National Board of Accreditation, AICTE, New Delhi in 2008. The Shivaji University, Kolhapur had entrusted status of Lead College to this institute during 2006-10. The institute has well qualified and senior faculty of about 180 and support staff of about 200. The Institute has a beautiful lush green campus elaborately spread over 11.0533 Hectares (27.30 acres) of land with built up area of 27,327 m^2 (about 2,94,039 ft^2) comprising of instructional area, circulation area and amenities more than AICTE norms.

The institute has specious buildings with ample scope for future development and expansion. The institute also has close links with industries especially around Maharashtra through Industry-Interaction initiative viz. *OneKIT* which gives platform for competency building and comprehensive institutional reformation. The *OneKIT* takes into account the global trends in technical education and the challenges and opportunities for Indian Rural Engineering Institutions. The specific programme objectives include:

1. Skills Development: Bridging the gap between Industry and Academia.

2. Issues and Application based pervasive research programmes.

3. Entrepreneurship development.

4. Faculty self competency development and empowerment.

5. Human resource development for 21st century institutions.

6. Quality management systems for high performance output.

The institute interacts with industry, research bodies and university for effective implementation of the curriculum. The institute has signed MoUs with eminent organizations, viz. KPIT Technologies Ltd., Pune; ZenSar Technologies, Pune; Platonic India Ltd., Nashik; Central Dogma Pvt. Ltd., Pune , Kirloskar Oil Engines Ltd. Pune and National Research Centre of Pomegranate, Solapur to name a few. Also, the MoUs with CIDC, New Delhi, Siemens India and Baburaoji Gholap College, Pune are in process.

- The institute has been recognized as the Remote Education Centre of IIT Bombay, Mumbai and has been adjudged as Best Remote Centre under NMEICT of MHRD and IIT Bombay.

- KIT has been awarded the FIRST PLACE for Merit Scholarship (for securing maximum number of rank holders in exam) in the rural category by Shivaji University, Kolhapur for last FIVE years.

- Teaching-learning is being enhanced by implementing 'MOODLE', NPTEL video lectures and by arranging workshops, seminars, and conferences on the recent developments in technology.

- Software training programmes like STAAD.Pro, CATIA, ISO 1400 OSHAS, ORCID are arranged for faculty and staff enrichment.

- The institute has lifetime membership of ISTE, CSI, IIPE, IETE and IEEE.

- The institute sponsors its faculty for qualification improvement such as PG / Ph.D. under FIP.

- Our alumni have achieved commendable reputations at national and international level.

- Some of our faculty members have received grants from AICTE, NABARD, SERB-DST etc.

- The institute   maintains and encourages eco-friendly campus by tree plantation, elimination of all types of wastes such as biodegradables, e-waste and reuse of wastewater.

- Creation of Medicinal Plant Park is a notable work done by Bio-Technology Engg. Department. Another successful attempt by institute is carbon sequestration, capture of greenhouse gas in the campus. About six hundred four trees well grown in campus are enriching biodiversity and created shelters/habitat for wide variety of birds. The Institute has success story of ground water recharging by watershed management and rainwater harvesting.

- 'Ignited Minds Movement' of KIT provides a platform for the students to have their social development along with their academic development, which enables the students to shed conventions and to think out of the curriculum.

Visits of Dignitaries:

Sr No	Name	Designation	Date of Visit
1	Dr. K. Kasturi Rangan	Chairman, ISRO	15th Feb 2004
2	Mr. Parthsarthi	Indian Ambassador to Pakistan	8th Feb 2003
3	Dr. Vijay Bhatkar	Chairman , C- DAC	15th Sept. 2001 and 15th May 2003
4	Dr. Raghunath Mashelkar	DG, CSIR, Scientific Advisor to Prime Minister	Sept. 2005
5	Dr. Anil Kakodkar	Sr. Scientist, Central Atomic Commission, Govt. of India	15th Sept. 2001 and 15th May 2003
6	Dr. Kirit Parikh	Secretary to Prime Minister for Commerce and Finance	8th Feb.2005
7	Dr. Shivram Bhoje	Director, Indira Gandhi Atomic Centre, Kalpakkam	On multiple occasions
8	Er. Anant Talaulikar	CMD, Cummins India Pvt. Ltd., Pune	7th September 2007
9	Shri Sanjiv Sanzgiri	Vice President , TCL, Pune	30th Sept 2006
10	Dr. K. Balveera Reddy	Former Vice Chancellor, VTU Belgaum	January 2006
11	Shri R.R. Deshpande	Director (Operations), Kirloskar Oil Engines Ltd., Pune	21st Feb 2007
12	Dr. S.K. Mahajan	Director, DTE Maharashtra	7th September 2007
13	Ms. Leena Mehandale	Member CAT, Mumbai Bench	24th Feb 2013
14	Dr. N.J. Pawar	Vice Chancellor, Shivaji University, Kolhapur	2nd Oct. 2010
15	Prof. Arun Nigavekar	Former Chairman UGC, Founder Director, NAAC, Former Vice chancellor Pune University	1st Oct 2011
16	Dr. Raju Mankar	Vice- Chancellor, Babasaheb Ambedkar Technological University, Lonere	2nd October 2011

SWOC Analysis

SWOC analysis is the beginning of medium and long-range planning of the Institute. The purpose of carrying out the SWOC analysis is to identify the inherent strengths and weaknesses of the Institute and the opportunities and challenges faced by the Institute from the external environment.

Strengths:

Over the last 30 years, the Institute has acquired a number of strengths owing to the vision of the founder trustees and subsequently as a result of relentless efforts of the employees. The major strengths of the Institute have been mapped across FOUR dimensions as:

(i) Faculty: First, well qualified and experienced faculty belonging to all cadres with diversified specializations form the backbone of the Institute's academic environment. Out of 180 faculty, 30 are having more than 10 years work experience and 82 are having postgraduate and higher degrees. Moreover, 30 faculty members have registered for Ph.D. out of which 4 have submitted their work.

(ii) Image: Second, KIT's College of Engineering has emerged as a brand of quality technical education in South Maharashtra, making the Institute a preferred choice of students and parents. This is evident from the improvement in input quality of students, consistently No. 1 in First Year and Direct Second Year admissions in Kolhapur region and good placements of graduates in reputed corporate organizations.

(iii) Infrastructure: Third, a well-developed infrastructure with a built-up area of 27,327 m^2 comprising of instructional area, circulation area and amenities costing Rs 6.5 Crore and total investment of Rs 6.29 Crore on equipment and library are the major strengths of the Institute;

(iv) A Balanced Portfolio of Programmes offered: Finally, a well-balanced portfolio of 9 Undergraduate and 4 Postgraduate programmes covering core, interdisciplinary and upcoming disciplines of engineering places the Institute at the pinnacle of the engineering education in the region of South Maharashtra. The unique selling proposition (USP) of KIT is the composition of Board Members of the trust which include eminent educationists and renowned industrialists. This is reflected in the professional work culture and academic vision of the Institute.

Weaknesses:

The institute's weaknesses are identified in the brainstorming sessions conducted at different levels. The weaknesses are primarily related to research activities.

- First, at present there are 10 doctorate faculty in engineering and 7 in basic sciences. This needs to be improved.

- Second, R and D and consulting activities are inadequate in few of the departments. Further, R and D and consulting outputs in terms of book publications and filing IPRs need to be improved.

- Third, despite having four postgraduate programmes, involvement of postgraduate students in research and consulting-related activities is minimal.

- Finally, a few of faculty members are the alumni of the Institute itself.

Opportunities:

The economic, industrial, and academic environment offers a number of opportunities to develop the Institute as a centre of excellence.

- First, there is a growing demand for engineers who possess sound technical knowledge, problem-solving skills, and ability to work in heterogeneous groups. The institute can respond to this demand by focusing on imparting such skills to its graduates.

- Second, the minimum qualification criterion for faculty position at the entry level and growing R and D thrust in industry has resulted in an increased student demand for postgraduate programmes. The institute can launch additional postgraduate programmes covering different engineering specializations. Further, the Institute can involve postgraduate students in R and D and consulting activities.

- Third, there is an increased need of training industry professionals in the areas of technical, software, and soft skills, which can be catered using the acquired expertise of the Institute faculty.

Challenges:

The changing external environments pose certain challenges to the Institute's functioning and development.

- First, there is an increase in severity of competition from new and upcoming unaided institutes in the region.

- Second, faculty attrition has increased due to growing opportunities and experienced faculty members are switching over to the new institutes.

- Finally, student catchment is shrinking geographically as a result of upcoming institutes in different parts of the state in specific, and country in general. This has led to diminishing input quality and diversity of incoming students.

Today we are counted as one of the Best Engineering Colleges in the region and preferred institution. But in a few years from now, we would like to be counted as one of the best institutions in the Nation

3. PROFILE OF THE COLLEGE

1. Name and Address of the College :

Name :	KIT'S COLLEGE OF ENGINEERING, KOLHAPUR	
Address :	R.S.No.199 B/1-3, GOKUL SHIRGAON, KOLHAPUR	
	City : KOLHAPUR Pin : 416 234	State : MAHARASHTRA
Website :	www.kitcoek.in	

2. For Communication :

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. V.V. Karjinni	O: 0231 2638141 R :	9422747499	0231 - 2638881	karjinni@yahoo.com
Vice Principal	Dr. M.M. Mujumdar	O: 0231 2638141 R: 02312320464	7875163510	0231 - 2638881	mmmujumdar@gmail.com
Steering Committee Coordinator	Mrs. M.S. Kalas	O: 0231 2638141 R :	9225609822	0231 - 2638881	mam2kalas@rediff.com
Co-coordinator	Dr. M.B. Shinde	O: 0231 2638141 R :	9767873887	0231 - 2638881	maheshshinde111@gmail.com

3. Status of the Institution:
   Affiliated College   ✓
   Constituent College
   Any other (specify)

4. Type of Institution:
   a. By Gender
   i. For Men
   ii. For Women
   iii. Co-education   ✓
   b. By Shift
   i. Regular   ✓
   ii. Day
   iii. Evening
5. It is a recognized minority institution?

   Yes
   No   ✓

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

6. Sources of funding:

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

7. a. Date of establishment of the college: **1983**

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

     college (If it is a constituent college)

    SHIVAJI UNIVERSITY, KOLHAPUR

    c. Details of UGC recognition:

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

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

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

Under Section/ Clause	Recognition /Approval details Institution / Department	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	AICTE, New Delhi	4 June 2014	(1 Year) 2014-15	Renewed every year since 1993
ii.	DTE, Mumbai	4 January 1983	Since1983	-
iii.	Shivaji University, Kolhapur	21 May 2014	(1 Year) 2014-15	Renewed every year since 1983

(Enclose the recognition/approval letter)

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

      Yes ☑   No ☐

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

Yes ☐   No ☑

9. Is the college recognized

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

  Yes ☐   No ☑

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

  b.   for its performance by any other governmental agency?

  Yes ☐   No ☑

If yes, Name of the agency …………………… and

  Date of recognition: …………………… (dd/mm/yyyy)

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

Location *	**Rural**
Campus area in sq. mts.	**110468.2**
Built up area in sq. mts.	**21790**

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

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

- Auditorium/seminar complex with infrastructural facilities   **YES**
- Sports facilities :
  - Play ground   **YES**
  - Swimming pool   **YES**
  - Gymnasium   **YES**

- Hostel
  - **Boys' hostel**
i.   Number of hostels   **ONE**
ii.   Number of inmates   300
iii.   Facilities (mention available facilities): Lodging, Boarding, Vi-Fi, Recreation, etc.

- **Girls' hostel**

i.   Number of hostels   **ONE**

ii.   Number of inmates   100

iv.   Facilities (mention available facilities): Lodging, Boarding, Wi-Fi, Recreation, etc.

- Working women's hostel   **NO**

i. Number of inmates

ii. Facilities (mention available facilities)

- Residential facilities for teaching and non-teaching staff   **NO** (give numbers available — cadre wise)
  - Cafeteria —   **YES**
  - Health centre –   **YES**

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   **YES**
- Transport facilities to cater to the needs of students and staff   **YES**
- Animal house   **N.A.**
- Biological waste disposal   **YES**
- Generator or other facility for management/regulation of electricity and voltage   **YES**
- Solid waste management facility   **YES**
- Waste water management   **YES**
- Water harvesting   **YES**

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

Sr. No	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
1		Electronics Engineering	4 Years	+2	English	60	53
		Production Engineering	4 Years	+2	English	60	61
		Civil Engineering	4 Years	+2	English	120	124

Sr. No	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
		Environmental Engineering	4 Years	+2	English	60	31
		Computer Sci. and Engineering	4 Years	+2	English	60	63
		Information Technology	4 Years	+2	English	60	54
		Mechanical Engineering	4 Years	+2	English	120	124
		Biotechnology Engineering	4 Years	+2	English	60	38
		Electronics and Tele- Commu. Engineering	4 Years	+2	English	60	56
2	Post-Graduate	Electronics and Tele-Communication Engineering	2 Years	BE	English	18	18
		Mechanical - Production Engineering	2 Years	BE	English	18	9
		CAD/CAM/CAE	2 Years	BE	English	18	7
		Biochemical Engineering and Bio-Technology	2 Years	BE	English	18	6
3	Integrated Programmes PG						
	Ph.D.						
	M.Phil.						
	Ph.D.						
	Certificate courses		N. A.				
	UG Diploma						
	PG Diploma						
	Any Other (specify and provide details)						

13.   Does the college offer self-financed Programmes? If yes, how many?

Yes ☐   No ☑

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

Yes		No	✓	Number	

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 (eg. Physics, Botany, History etc.)	UG	PG	Research
Science				
Arts				
Commerce				
Any Other (Specify)	Engineering	✓	✓	
		Electronics Engineering		
		Production Engineering		
		Civil Engineering		
		Environmental Engineering		
		Computer Sci. and Engineering		
		Information Technology		
		Mechanical Engineering		
		Biotechnology Engineering		
		Electronics and Tele - Communication Engineering		
			Electronics and Tele - Communication Engineering	
			Mechanical - Production Engineering	
			CAD/CAM/CAE	
			Biochemical Engineering and Bio -Technology	

16. Number of Programmes offered under (Programme means a degree course like BA, B.Sc, MA, M.Com)

a. Annual system

b. Semester system ✓

c. Trimester system

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

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

Yes ☐ No ✓

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

Yes ☐ No ✓

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

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government *Recruited*	2	0	9	3	68	17	-	-	-	-
Yet to recruit										
Sanctioned by the Management/ society or other authorized bodies *Recruited*	2	2	0	0	42	27	73	6	33	2
Yet to recruit										

*M-Male *F-Female

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.	-	-	-	-	-	-	-
Ph.D.	5	-	1	1	2	1	10
M.Phil.	-	-	-	-	1	-	1
PG	-	-	18	4	55	12	89
Temporary teachers							
Ph.D.	2	2	-	-	2	1	7
M.Phil.	-	-	-	-	1	1	2
PG					18	8	26
Part-time teachers							
Ph.D.	-	-	-	-	-	-	-
M. Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

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

    31

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

Categories	2010-11		2011-2012		2012-2013		2013-2014	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	32	20	49	17	43	23	49	29
ST	03	00	07	03	06	02	03	01
OBC	55	32	63	37	63	46	62	38
General	214	113	270	145	236	163	247	142
Others	49	17	54	21	47	25	48	27
Total	353	182	443	223	395	259	409	237

24. Details on students enrolment 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	626	60	-	-	**686**
Students from other states of India	20	3	-	-	**23**
NRI students	-	-	-	-	**-**
Foreign students	-	-	-	-	**-**
Total	**646**	**63**	**-**	**-**	**709**

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

UG : 2012-13 -   5.19%   PG : 2012-13 -   Nil

UG : 2013-14 -   3.86%   PG : 2013-14 -   1.58%

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. 53918/-
   (b) Excluding the salary component   Rs.   8386/-

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

Yes [ ]   No [✓]
If yes,

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

                    Yes [ ]   No [✓]

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

NA

   c)   Number of programmes offered | NA |

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

   Yes [ ]   No [✓]

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

Teacher-student ratio: 1: 15

Sr. No.	Programme Level	Name of the Programme/ Course	Sanctioned/ approved Student strength	Duration	Approved No. of students	Teacher student ratio
1	Graduate	Electronics Engineering	60	4 Years	240	15.00
		Production Engineering	60	4 Years	240	12.63
		Civil Engineering	120	4 Years	420	16.15
		Environmental Engineering	60	4 Years	240	15.00
		Computer Sci. and Engineering	60	4 Years	240	14.11
		Information Technology	60	4 Years	240	15.00
		Mechanical Engineering	120	4 Years	420	15.55
		Biotechnology Engineering	60	4 Years	240	16.00
		Electronics and Tele-Communication Engineering	60	4 Years	240	14.11
2	Post-Graduate	Electronics and Tele-Communication Engineering)	18	2 Years	36	12
		Mechanical - Production Engineering	18	2 Years	36	12
		CAD/CAM/CAE	18	2 Years	36	12
		Biochemical Engineering and Bio-Technology	18	2 Years	36	12

29. Is the college applying for Accreditation:

   Cycle 1 [✓]   Cycle 2 [ ]   Cycle 3 [ ]   Cycle 4 [ ]

   Re-Assessment: [ ]

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

31. Number of working days during the last academic year. - **280 Days**

32. Number of teaching days during the last academic year - **210 Days**
   (Teaching days means days on which lectures were engaged excluding the examination days)

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

   IQAC **02 July 2012**

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

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

   ▪ Department of Electronics Engineering, Department of Civil Engineering, Department of Production Engineering and Department of Environmental Engineering have been accredited twice by the NBA.

   ▪ Department of Biotechnology Engineering, Department of Information Technology, Department of Computer Science and Engineering and Department of Mechanical Engineering have been accredited once by the NBA.

   ▪ The Institute is the first preferred choice of students in the region.

   ▪ Institute Top Management comprises of leading industrialists and educationalists.

   ▪ Consistently getting first rank in Shivaji University Merit Scholarship under rural category.

   ▪ The Institute is the winner of ISTE Best Chapter Award during 2011-12 under Maharashtra and Goa section.

   ▪ The Institute has won second prize in Shivaji University inter-collegiate magazine competition during 2012-13.

4. CRITERIA-WISE INPUTS

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

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

Vision:

To be the Centre of Excellence in Technical Education and preferred choice of Students, Faculty, Industry and Society

Mission:

- To empower the Faculty, Staff and aspiring Engineers with essential technical knowledge and skills
- To develop competence towards serving the ever changing needs of Industry and Society
- To inculcate Social and Ethical values amongst the Students and Employees
- To strengthen collaborative research and consulting environment with industry and other institutions

Objectives:

- To organize short duration courses, conferences and seminars for faculty and students on current technological developments
- To conduct skill enhancement Programs for support staff
- To organize value addition training Programs for students to bridge the gap between professional requirements and curriculum
- To conduct training programs for developing soft skill, corporate etiquettes and manners for students and faculty
- To arrange social and environmental awareness activities
- To practice ethical values in all day to day activities
- To develop centres of excellence in various disciplines
- To enter into Memorandum of Understanding with research institutes and industry

Vision and Mission of the Institution are communicated to the students, teachers, staff and other stakeholders through the following ways:

- Displayed at main entrance of the Institute and at all important places in the campus such as the departments, library, hostel buildings, etc.
- Displayed on the Institute Website
- Conveyed during various students/Faculty Orientation/Induction Programs.
- Published regularly in Institute Prospectus, Institute Magazine, Department Newsletters, Academic Diary, and other Institute publications.
- Displayed during important events of the Institute like Pioneer: A Technical Paper Presentation Contest; Conferences /Seminars /Workshops /Symposiums, etc. organized by the Institute Departments; Annual Social Gathering; Technical Exhibitions like Final Year Projects and Mini Projects exhibitions, Product Showcasing, parents and alumni meets etc.
- Communications with various industries and society include Vision and Mission statements of the Institute.

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).

Prior to the start of each semester, the Principal organizes a meeting with Deans, Heads of the Department and Student representatives to plan Academic Calendar. The Academic Diary including the Academic Calendar is issued to every faculty member. Similarly the Student Diary is issued to every student.

Academic Diary and Course File:

The academic diary consists of the following important information:

- Faculty name
- Course details
- Vision and Mission Statements
- Individual time table of faculty
- Semester planner for faculty
- Lesson plan and record of course delivery along with details of teaching method and teaching aids
- Plan to teach topics in addition to the syllabus
- Record of theory attendance which includes total lectures attended; details of counseling for students with poor academic performance.

- Summary sheet indicating continuous assessment report of each student
- Plan of practical/assignment/tutorial work
- Record of practical/tutorial attendance with performance evaluation of practical
- Record of project work engagement and progress
- Result analysis for last three years and plans for improvement for the current semester
- Record of academic achievement of the faculty like paper publications/presentations, industrial visits, contribution to the administrative work of the Institute, contribution to university work like curriculum design, membership of various committees, University bodies etc.

Heads of the Departments allocate the teaching work in the next semester, according to the competency matrix of the faculty. Prior to the start of the semester, faculty members prepare their lesson plans and practical / tutorial plans which is recorded in the Academic Diary. The lesson plans are displayed for students' reference.

Along with the academic diary the faculty maintain course file which contain following information:

- Vision and Mission Statements
- Program Educational Objectives, Program Outcomes
- Syllabus, Course Objective and Course Outcome
- Mapping of Course Objectives with Program Outcomes
- List of Experiments
- Course material (soft / hard copy)
- Monthly Continuous Assessment/Performance Report
- Question papers of the unit tests along with synoptic answers
- Question banks
- Statements of marks for internal assessment tests 1 and 2 secured by the students
- University question papers

Faculty prepares syllabus coverage report, report of lectures conducted and record of remedial classes conducted. Based on these records continuous assessment report of students performance is prepared and displayed on notice board.

Academic Audit:

All the above mentioned records are assessed by Program Academic Coordinator and the concerned Heads of Department internally. These

records are audited twice a semester by the Central Academic Audit Committee to identify areas of improvement.

Mentoring:

Every faculty member is assigned a group of about fifteen students for mentoring every year. The faculty mentors conduct meeting with the mentees and record their suggestions, requirements, and difficulties to take necessary actions related to curriculum implementation. The record is used to monitor the progress of the students.

Teaching Pedagogy:

For effective implementation of teaching-learning process, various methods like lecturing, video lecture, co-operative learning, literature survey, group discussions, quizzes, seminars, laboratory visits, industrial visits and demonstrations are incorporated in the course delivery methods. Institute encourages use of different teaching aids such as video films, multimedia presentations in addition to blackboards.

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

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

The faculty uses modern teaching aids such as Multimedia Projectors, Digital Boards and Video films for conducting classes more effectively.
the Institute supports the faculty members for participating in various Faculty Development Programs, Workshops, Seminars, Conferences, etc. to enrich their knowledge.
the Institute library provides text and reference books and other reference material like Journals, Magazines, Teaching Models and Software to enable the faculty to ensure effective delivery of curriculum.
Digital libraries, E-learning facilities are provided to all the faculty members of the Institute which help them in effective teaching. Wi-fi and Internet facility is available in the campus.

Consultation with Senior Professors

Senior faculty mentor (depending upon their field of interest / expertise) relatively less experienced faculty to overcome the problems faced by them during the teaching learning process typically building subject understanding, solving drill problems, setting test papers and quizzes, etc.

Qualification up-gradation

Institute sponsors faculty members to enroll for Ph.D. Programs.

R and D Initiatives

Institute encourages and helps the faculty to establish liaison with industries and R and D Institutes to enhance their practical knowledge so as to help transform students as industry ready professionals.

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.

Apart from details mentioned above for effective implementation of the curriculum development and deployment, following additional activities are undertaken.

Faculty prepares lecture plans for each lecture. The lesson plans consist of the list of points to be discussed with the students based on expected outcome from the lecture. The lecture plan also contains linkages of this lecture with previous and subsequent topics. It also contains pre-requisites for the topic to be discussed.

Additional lectures are arranged for slow learners as well as for the students participating co-curricular and extracurricular activities.

The students admitted directly to second year who do not get opportunity to attend classes due to late admission are offered extra classes and practical sessions to make up for the losses due to late admissions.

The students are provided with facilities like book bank from central library at nominal cost. Apart from this all Departments offer Departmental Library facility for students. This Library is managed by students under the guidance of faculty from respective Departments.

the Institute has launched FTP Server for online access of video lectures on subject included in the curriculum as well as on other topics

of academic interest by NPTEL, an initiative promoted by IITs and IISc. Students and faculty can login and view video lectures.

'MOODLE' – A Web Based Course Management System:

The Institute has installed 'MOODLE' server to deploy and monitor web based course management system. This helps strengthening academics in terms of following points:

- Every faculty member creates a webpage of the subjects taught.
- The webpage includes syllabus, lesson plans and delivery schedule, question bank for each topic, course material and relevant links to the websites, quizzes, notices and announcements, messaging with faculty and students, feedback, etc.
- The assignments are published and solutions to assignments are processed through MOODLE wherever possible.
- Students access their attendance reports and Continuous assessment report on this webpage

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 Institute interacts with industry, research bodies and university for effective operationalisation of the curriculum. Experts from industry are invited for presentations and discussions on relevant topics within and beyond the syllabus. Interaction with the alumni from industry and expert lectures from reputed organization like Infosys, KPIT Technologies, Reliance Life Sciences, Sanofi India Ltd., CSIR, NCL, NAL etc. are organized on some key topics to discuss research activities. They guide students regarding career option in terms of research and employment opportunities in industry.

Professors from renowned institutions and research organizations are regularly invited to enlighten the students on relevant topics within and beyond the syllabus. The Institute faculty members arrange to present recorded video lectures of expert faculty from IITs and IISc on some important topics of syllabus followed by an interaction with students.

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.)

The Institute, follows the curricula framed by Shivaji University for different programs as the Institute is affiliated to Shivaji University, Kolhapur.

Curriculum consists of two parts –
1. Program Structure
2. Detailed syllabus of each course.

Structure of the program consists of marking system comprising of marks for theory paper exam, term work marks, university practical/oral exam marks, the course objectives and outcomes. The syllabus consists of the detailed content of the course, the lecture hours allotted to each unit, the recommended text and reference books for the concerned course.

Role of institution in university curriculum development:

Faculty from various Departments of the Institute have worked as members of Board of Studies (BOS), Chairmen of BOS, Members of Faculty of Engineering and Technology, and members of Academic Council for many years. Various curriculum development workshops are conducted at the Institute to discuss the contents of the curriculum. Experts from Industry are invited to participate in these workshops. Faculty members have contributed towards the curriculum development extensively. While designing the contents of the curriculum the course objectives and the course outcomes are considered during these workshops.

Following faculty members from various Departments of the Institute have contributed in the Curriculum Development at University level.

Sr.No.	Department	Name	Contributed as*
1	Environmental Engg.	R.A.Nikam	1,2,3,4
2	Environmental Engg.	S.V.Kulkarni	1,2,3
3	Environmental Engg.	S.S.Shaha	2,3
4	Civil Engg.	Dr. M.M. Mujumdar	2,3
5	Civil Engg.	K.G.Hiraskar	1,2,3,4
6	Civil Engg.	H.V. Sadolikar	2
7	Electronics Engg.	Dr. M.S.Chavan	1,2,3
8	Electronics Engg.	Mrs. M.R.Dixit	2
9	Electronics Engg.	Dr.Y.M.Patil	2,3
10	Production Engg.	S.G.Bhatwadekar	1,2,3,4
11	Production Engg.	Dr. J.S. Bagi	1,2,3
12	Engg. Mathematics	S.V.Chavan Patil	1,2,3,4,5
13	Bio-Technology Engg.	Mrs. P.T. Kininge-Patil	1,2,3
14	Mechanical Engg.	S.M. Pise	2, 3

15	Information Technology	Mrs. M. S. Kalas	2
16	Production Engg.	Dr. D. V. Ghewade	2
17	Production Engg.	Dr. V. V. Khanzode	1,2,3
18	Production Engg.	J. D. Joshi	1,2,3,4

1- BOS Chairman, 2- BOS member, 3- Faculty member, 4- Member of Academic Councils, 5- Dean

Apart from above activity senior faculty and subject experts attend meeting/workshop invited/arranged by University BOS Chairman for framing the syllabi.

Feedback of students regarding course strengths and weaknesses is collected after completion of course for future revisions in curriculum.

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.

The Institute offers additional short term course apart from courses in the curriculum of the University. Following types of courses are offered.

▪ Courses offered in collaboration with industry to cater to the needs of industry with the objective of enhancement of knowledge and placement of the students.

▪ Courses designed in-house to meet specific objectives.

All these courses are either appropriately funded by the Institute
The following criteria are used for assessments of needs.

1. Interaction with industry to evaluate their needs
2. Interaction with research organization to evaluate thrust areas
3. Policy documents of Government of India, reports of Knowledge Commission, reports of NASSCOM, reports of World Trade Organization etc. are reviewed to identify future needs of society and the areas of technologies where better job opportunities are expected
4. Need evaluation is also done based on students requirements

The design and development of the course is done in collaboration with experts from industry, research organizations and expert faculty within the Institute. These additional courses are approved by Head of Departments, Dean Academics and the Principal. The funds required for the courses are planned and disbursed as per needs in terms of faculty remuneration, remuneration of field experts, accommodation and hospitality, resources and infrastructure required for the courses.
In the recent past following courses are offered by Institute.

Sr. No.	Title	Type of course	Duration	Department	Remark
1	Automotive Electronics	Collaborative	One semester	Electronics/Electronics and Telecommunication, Mechanical Engg	KIT COEK and KPIT Technologies are jointly offering this course. The course is fully financed by the Institute.
2	3D Modeling in CATIA_V5	. Collaborative	One semester	Dept. of Mech. Engg., Prod. Engg. and Industry	Certification by Institute
3	Finite Element Analysis with ANSYS	Organized by the Institute	One Semester	Department of Production Engg.	Certification by Institute
3	Technical and Soft skill Development	Collaborative	360 Hrs of training (Technical and soft skills) from Zensar professionals spread over two semester	Dept. of Computer Science and IT	Collaborated with Zensar (Technical and HR experts) the Institute is nodal center of training for Engineering Institutes in Kolhapur district
4	Employability Improvement in Construction Management	Collaborative	One Semester	Department of Civil Engineering	Collaborated with CIDC: Construction Industry Development Corporation Certification jointly by CIDC and the Institute

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

Program educational objectives and Program outcomes are defined at the Department level. At the beginning of the semester, faculty prepares course objectives and outcomes. This document is designed in line with Program educational objectives and Program outcomes. The course outcomes are mapped with program outcomes. The course outcomes document clearly mentions about what students should be

able to demonstrate after completion of each unit in the syllabus. Students undergo theory and practical sessions on each unit. Lab-work/Tutorials are planned in line with the theory, objectives and outcome of the course.

Two internal assessment tests are conducted in a semester for each course. Every practical is evaluated after completion of experiment. At the end of semester internal oral / practical examinations are conducted. This process provides continuous feedback regarding students' progress both to students and faculty. Based on above data, continuous assessment record is developed.

This is the process followed in the Institute to evaluate/analyze, whether the stated objectives of the curriculum are achieved.

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.

At present the institute offers certificate and skill development programs. Details of such programs are provided in section 1.1.7

1.2.2   Does the institution offer Programs that facilitate twinning/dual degree? If 'yes', give details.
    NO

1.2.3   Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:
Range of Core/Elective options offered by the University and those opted by the college.
Choice Based Credit System and range of subject options
Courses offered in modular form
Credit transfer and accumulation facility
Lateral and vertical mobility within and across Programs and courses, Enrichment courses

- ▪ **Elective options offered by the University and those opted by the Institute**

The final year students get opportunity to opt for two to four electives, specific to program. The total number of electives provided as per university curricula in the nine programs conducted by the Institute are 107. Out of these, the Institute offers 40 elective courses across various Programs.

▪ **Choice Based Credit System and range of subject options**

The choice based credit system does is available for PG programmes in the affiliating University. However, it is not introduced for UG programmes in engineering faculty yet.

▪ **Courses offered in modular form**

No courses are offered in modular form in the Institute.

▪ **Credit transfer and accumulation facility**

The credit transfer system is available in the affiliating University and is to be introduced in the engineering faculty.

▪ Lateral and vertical mobility within and across Programs and courses

At the end of first year, the students can opt for a change in branch of study provided that there is a vacancy available in that branch. This is possible because, the syllabus for first year of engineering degree is common for all branches.

A limited lateral mobility of one course is available to students in M. E. (Mechanical-Production Engineering) of this Institute. The students can choose one course under "Open Elective" from any Masters' Degree Programs being run in the Institute concerned.

Vertical mobility is not permissible by the current provisions in the rules and regulations of the University.

Enrichment courses: the Institute offers following enrichment courses

SR. NO.	Title of the Program	Department Of beneficiary	Collaboration	Duration	Remarks
1.	STAAD Pro software	Civil Engg.	External Professional Expert (Mr.Pradeep Kulkani)	One week	Certified by the Institute
2.	Etab software	Civil Engg.	Mr.Padeep Kulkarni, Kolhapur Mr. Hitesh Lahoti,CESA, Pune	Two days	Certified by the Institute
3.	STAAD software	Civil Engg.	Softtech Pri. Limited,Pune	One day	Certified by the Institute
4.	ArcGIS	Civil Engg.	ESRI, India	One day	Certified by the Institute
5.	Quantum GIS	Civil Engg.	S. Nishikant, Map-Space Ltd., Chennai.	One week	Certified by Space Ltd., Cheenai.

SR. NO.	Title of the Program	Department Of beneficiary	Collaboration	Duration	Remarks
6.	Field Astronomy	Civil Engg.	Mr.Ram Lele, Nehru Planottorium,Pune	Two days	Certified by the Institute
7.	Total Station	Civil Engg.	Prof. S.S.Varur	Two days	Certified by the Institute
8.	Internal Auditor Program on EMS	Environmental Engg.	SGS India Pvt. Ltd, Banglore	One week	Certified by SGS India Pvt. Ltd. Banglore
9.	Internal Auditor Program on OHSAS	Environmental Engg.	SGS India Pvt. Ltd, Banglore	One week	Certified by SGS India Pvt. Ltd. Banglore
10.	Internal Auditor Program on EnNS	Environmental Engg.	SGS India Pvt. Ltd, Banglore	One week	Certified by SGS India Pvt. Ltd. Banglore
11.	Internal Auditor Program on Carbon Foot Print	Environmental Engg.	SGS India Pvt. Ltd, Bangalore	One week	Certified by SGS India Pvt. Ltd. Banglore
12.	Web Programming	Computer Science & Engg	ISTE approved STTP & the Institute	One week	Certified by the Institute
13.	Advanced trens in Database Systems	Computer Science & Engineering	ISTE approved STTP & the Institute	One week	Certified by the Institute
14.	Workshop on "Database Management System"	Information Technology	Mr. S. Sudharshan	Two weeks STTP	IIT Bombay
15.	Workshop on open source "Blender" software	Information Technology	Mr. Kapil Kadam	Two days STTP	IIT Bombay
16.	Spoken Tutorial Workshop on 'Latex'	Information Technology	IIT Bombay and MHRD, India	One day	Certified by IIT Bombay
17.	Add on course in 'CAD-CAM and CNC'	Production Engineering	Prof. S. B. Sangale	One semester	Certified by the Institute

SR. NO.	Title of the Program	Department Of beneficiary	Collaboration	Duration	Remarks
18.	Add on course in 'CAE - ANSYS'	Production Engineering	Prof. G. R. Kulkarni	One semester	Certified by the Institute
19.	ORCAD workshop	Electronics Engineering	Development Engineer, In-Link Systems, Kolhapur	One week for SE electronics students	Certified by the Institute
20.	Advances in VLSI using signal processing	Electronics Engineering	ISTE and the Institute	Two weeks STTP	Certified by the Institute
21.	Analog Electronics	Electronics Engineering	IIT Kharagpoor, the Institute	Two weeks STTP	Certified by IIT Kharagpoor
22.	Signal processing	Electronics Engineering	IIT Mumbai, the Institute	Two weeks STTP	Certified by IIT Mumbai
23.	3D Modeling In CATIA_V5	Dept. of Mech. and Prod. Engg.	The Institute and Industry	One semester	Certified by the Institute
24.	Computer Programming in C	Dept. of Mech. and Prod. Engg.	the Institute	Three months	Certified by the Institute
25.	Mechatronics	Department of Mech. and Prod.	ISTE and the Institute	One week STTP	Certified by the Institute
26.	FEA and Design Optimization	Department of Mech. and Prod.	ISTE and the Institute	One week STTP	Certification by ISTE and the Institute
27.	Non Destructive Testing	Mechanical Engg.	Indian Society of Non Destructive Testing	Two days	Certified by the Institute
28.	Automotive Advanced Engine Technologies	Mechanical Engg.	Experts Hub and Techfest IIT Bombay	Two days	Certified by the Institute

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

Yes, all Programs are self-financed as the Institute is under the category of an unaided institute. List of the Programs run in the Institute is given under 1.2.1 above.

- Admissions to all UG and PG Programs are conducted according to Director of Technical Education (DTE) rules and regulations the details of which are available at www.dte.org.in.

- Curriculum for each Program is designed by the Board of Studies of the related branch, Shivaji University, Kolhapur according to the university norms. (Details available at www.unishivaji.ac.in)

- The tuition fee is charged as prescribed by the SHIKSHAN SHULKA SAMITI, Maharashtra State and Shivaji University rules and is subject to revision. Details are available on www.sssamiti.org.

- The institution has appointed well qualified, experienced faculty members who possess good subject knowledge. Appointments are done on the basis of UGC and AICTE norms (www.ugc.nic.in and www.aicte-india.org)

- The salary is pertinent to the UGC and AICTE norms. It is as per sixth pay scale.

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

The engineering departments of the Institute offer various certificate/skill development courses. The objective and the goals of the additional Programs are as follows:

- The graduating students should plan his career objectives when he is student of this Institute. Usually majority of the students wish to secure placement in campus. A few prefer to join postgraduate Program in India or abroad and few wish to launch their own business venture.
- In line with students need and demands from Industries, the Institute offers various certificate courses to UG students. The courses include technical as well as soft skill development Programs. Some courses are designed in house taking in to account future and present needs of the industry and research organizations, and few are designed to the meet the specific needs of industry by collaborating with the industry. Some courses are given to enhance skills of the students so as to be successful in qualifying examinations like GATE, GMAT, GRE, TOEFL etc. The Institute has an Entrepreneur development cell. This cell conducts seminars and workshop for the students to inculcate entrepreneurship at early age of his/her life when cost of opportunity

is very less

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 Programs and Institution's goals and objectives are integrated?

Sincere efforts are put in by institute to supplement the University Curriculum to ensure that the academic Programs and institutions goals, objectives are integrated. BOS give new syllabus after every five years. Syllabus is primarily focused on fundamental aspect of respective branch of engineering. Few subjects in the syllabus take care of developing skills of students required by industry. However in spite sincere efforts by BOS members a scope is available for faculty members to introduce skill developments Program under continuing education cell, Entrepreneur development cell, Collaboration with industry to enhance specific skills. Guest lectures are arranged from subject experts on specific part of syllabus or on part not in syllabus but are the need of the industry. Departments arrange National conferences on emerging fields of engineering where students get lot of exposure to the happening of the state of art research from distinguished academia or persons from industry. Institute organizes national level paper presentation competition titled pioneer since 1997 till date. Students and faculty members organizes this event.

Students get opportunity to learn leadership skills as well technical skills. Institute organizes technical festival every year in which innovative competitions are conducted for the students in the region. All the activities are carried out with due respect to environment of mother earth. The Institute undertakes research projects. Students are encouraged to participate in the research projects. Faculty members compete to get research grants from AICTE. Lot of students get opportunity to participate in research Programs. Students get advantage of designing projects and experiments based on advanced laboratory facilities derived from funds received in MODROB scheme of AICTE. These activities carried out at the Institute level and students' participation in it results in either good placement for student or

admission to MS Program at abroad ME/M. Tech Program in India.

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?**

As the Institute is affiliated to Shivaji University, Kolhapur, it is mandatory to follow syllabi set by the university. The syllabi are designed by Board of Studies and senior faculty members of various Institutes under the university. As we are one of the lead Institutes in the university, institute has significant representation in the Board of Studies of the entire Engineering faculty. The Institute periodically arranges alumni meet to receive valuable suggestions from the alumni regarding additional syllabi contents, which are currently required by the industry and the faculty try to include those contents as additional topics in respective subjects. Also the faculty members, who are part of the Board of Studies, take these suggestions into account while revising the syllabi.

The training and placement cell of the Institute interacts with the HR managers of reputed companies and collects information about requirements of the industry, regarding skill set of students. Considering these requirements, add on courses and extra classes are then conducted to make the students more employable. Few case studies are presented below:

1. KIT has entered into MOU with KPIT Technologies LTD Pune, to offer a course in "Automotive Electronics" for Electronics and E&TC students. The contents for the course are jointly designed by faculties from electronics Engineering and Mechanical Engineering of KIT along with technical experts of KPIT Technologies. The total duration of the course is 120 Hrs.

2. KIT has entered in to MOU with Zensar technologies, Pune to offer "Employability skill development program" to CSE and IT students. This program covers technical training in JAVA domain, soft skills training and real-time sponsored projects. The total training is of 340 hours duration.

3. The Planning Commission, Government of India, jointly with the Indian construction industry has set up Construction Industry Development Council (CIDC) to take up activities for the development of the Indian construction industry. Over the last 13 years CIDC has made substantial achievements in the area of HRD especially supervisory cadre personnel. These Programs help Executives to prepare themselves for bigger challenges in their career and enhance their performance in the challenging global business environment.

Executive Development Programs conducted by CIDC are Conferences and Seminars Executive Development Programs (EDP) delivered on a continual learning philosophy and are ideal for working executives and entrepreneurs who are hard pressed for time and find it difficult to enroll for regular long duration Programs. The Institute is in process to sign MOU WITH CIDC to offer additional courses of duration one semester for students so as to make them employable immediately after graduation.

4. Industry Sponsored project: Sponsored projects are offered to shortlisted students by following companies.

 i. Persistent Ltd. Pune

ii. JADE Global Pune

These projects are sponsored to CSE and IT students. The projects are mentored jointly by faculty from the Institute as well as technical experts from company.

5. Industry organized project/Competency competition: Our students regularly participate in various competitions organized by renowned industries such as John Deere, TCS, KPIT Technologies, Oracle, SEED technologies.

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?**

Environmental Study is a common course for all second year students as per the curriculum. In this course, the basic components of Environment, their application in various fields are studied. Students perform mini projects in this course. The Institute has appointed separate faculty to conduct this course.

The Institute organizes various short term courses in emerging fields and imparts additional training to the students. One week courses on Internal Auditors for Environmental Management and OSHAS, Energy management Systems and Carbon foot prints have been successfully conducted. Students are actively involved in various activities like Tree plantation (endangered, medicinal plants), Public awareness during Ganesh festival (particularly for immersion of Ganesh idol and solid waste in river water, Reduction of noise levels during the festival). These activities are conducted through various student organizations in the Institute. The Programs like no vehicle day, sky observation and Cycle day also create awareness regarding environment among the students.

Gender Equality is one of the key issues in today's world. Equal opportunity is given to the girls along with the boys in various committees. Many Programs are coordinated and organized by the girls along with boys. Internal Complaints Committee (formerly Vishakha Committee) is formed as per direction of central government. The Programs like women empowerment, celebration of women day are conducted at the Institute level.

Anti Ragging committee is also effectively working in the Institute. The Institute has formed anti-ragging committee comprising of mixed gender which includes the Principal, faculty members, physical education trainer. A few members of committee are from community like lawyers and senior social activists. Boards containing list of anti-ragging committee members are displayed in Institute campus along with their mobile phone numbers and email address. The committee members are available to students after Institute hours also. Every semester meetings of the committee members is conducted and decisions of the committee are communicated to the faculty and students. Guest lectures are conducted by invited experts in the fields to make students aware about how to deal with ragging and assist their colleague in such a case. Due to active vigilance of the committee no incidence is recorded in Institute campus since last ten years

The complaints from the students in this regards from Institute and hostel campus are duly attended and accordingly improvement actions are made.

In today's world information, knowledge and communication ability is playing an important role in the development of students. Students are provided with the access to internet for obtaining the information they need. The Institute is nodal center for NMICT to offer short term courses to students and faculty. Following courses are offered in the Institute since the inception of the center.

SR. NO.	Dates	Workshop Topic	Coordinator	Department
1.	5-6, 12-13, 19-20, 26-27 Nov 2011 and 3-4 Dec 2011	Software Development Techniques for Engineers and Scientists (SDES)	T B Patil	IT
2.	29 Nov to 10 Dec 2011	2-WEEK ISTE WORKSHOP on Heat Transfer	D V Ghevade	Mech
3.	2,9 Feb 2013	2-DAY ISTE WORKSHOP On Research Methods In Educational Technology	A S Patil	IT
4.	18-19 Feb 2012	Writing Effective Conference Papers	V V Khanzode	Prod

5.	12-22 Jun 2012	Computational Fluid Dynamics	U S Bhapkar	Mech
	25 Jun to 4 July 2012	Introduction to Research Methodologies	A S Patil	IT
6.	11-12 Nov 2012	Aakash for Education	T B Patil	IT
7.	11-21 Dec 2012	2-WEEK ISTE Workshop on Engineering Thermodynamics	S S Shinde	Mech
8.	23, 24 Feb; 2, 3 Mar 2013	Aakash Android Application Programming Workshop for Students	T B Patil	IT
9.	21-31 May 2013	Two-week ISTE workshop on database management systems (Main Workshop)	M S Kalas	IT
10.	4-14 Jun 2013	Two-Week ISTE Main Workshop on Analog Electronics	M S Chavan	Electronics
11.	2-12 Jan 2014	Two-Week ISTE Main Workshop on Signals and Systems	Y M Patil	Electronics

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

The Institute offers various training programs/social activities to ensure holistic development of students under following categories.

- **Moral and ethical values**

    Various student organizations and faculty coordinators conduct guest lectures and workshops for enhancement of the moral and ethical values in students. List of activity is mentioned below

SR. NO.	Course title	Date	Duration
1.	Exhibition of books on Swami Vivekanand by Ramkrishna Math, Kolhapur	8/1/2014 and 9/1/2014	9.00a.m.- 4.30p.m.
2.	Tarunyachya Vatewar Dr. Kamal Hardikar	8/3/2014	4.00pm- 6.00pm
3.	Prevention of ragging by Mangala Badadare patil	March 2014	2.15pm to 4.15pm
4.	Women empowerment laws under Indian penal code Dr. Mangala Badadare Patil	6/10/2013	10.00 am - 12.00 noon
5.	Awareness lecture on child labour and juvenile justice by Mrs Sadhana Zadbuke, an NGO member	5/10/2013	10.00 am - 12.00 noon

SR. NO.	Course title	Date	Duration
6.	Exhibition of books on Swami Vivekanand by Ramkrishna Math, Kolhapur	11/8/2012 and 12/8/2012	9.00a.m.-4.30p.m.
7.	'One Week Service for Nation'-University level poster competition, Social Service competition, Art Exhibition	12/8/2012	9.00a.m.-4.30p.m.
8.	Lecture-'Right path Towards Career' by Dr.Shubhada Diwan, Pschycologist, Kolhapur	11/3/2011	2.15-4.30p.m.
9.	Lecture-'Social Responsibilities of Girls' by Miss Sonali Nawangul, A renowned social worker in Kolhapur	14/3/2011	2.15-4.30p.m.
10.	Workshop on Stress Management by Mr.Umesh Mali,Quality Assuarance Leader, Sungard,Pune	22/8/2010	10.00a.m.-3.00 p.m.
11.	Women's Day Program on Women Empowerment-Lectures by Dr.Geetanjali Patil, Dr. Bharati Patil (Empowerment through education) and Mrs. Usha Patil (Empowerment through Self Help Groups in villages)	8/3/2010	9.00a.m.-4.30p.m.
12.	One Week Yoga Workshop for Hostel Girls by Mrs. Rama Garge, Yoga Teacher, Kolhapur	9/2/2010 to 16/2/2010	6.30a.m.-8.00a.m.

- **Employable and life skills**

  To increase the employability of the students, there are several value added workshops and activities are organized in the Institute. Details are listed below

Sr. No.	DATE	ACTIVITIES/Workshops	RESOURCE PERSON
1	3rd July To 7th July 2010	Five day's Campus Recruitment Training for BE Students Mech, Prod, ELN, IT	Ninad Yedurkar, Ace Grads, Kolhapur
2	6th and 7th Aug. 2010	Campus Recruitment Training for TE CSE, IT, Mech, Prod	Mr. Abhishek .,Smt Nandini
3	8th and 9th Aug. 2010	Campus Recruitment Training for TE CSE, IT, Mech, Prod	Mr. Kiran Joshi., Col. S.S.Ingale
4	12th and 13th Aug.t 2010	Campus Recruitment Training for TE CSE, IT, Mech, Prod	Mr. Kiran Joshi,Col. V.K.Patil., Col. S.S.Ingale
5	7th and 8th Oct. 2010	Mock Test 2011' for (Mech, Prod, CSE, IT, ELN, E&TC, Civil, Bio-Tech)	Mr Pralhad Deshpande Ms Sangita Pallod

Sr. No.	DATE	ACTIVITIES/Workshops	RESOURCE PERSON
6	15th Oct. 2010	Acedamic Interface Program 2010 by TCS for all BE Students	Mr. James Maslmani, Mr. Randhir Kamble, Mr Kalyan Dhopte
7	9th Feb. 2011	Career Orientation and Soft Skill Training for F.E. all students at KIT	Universal Education, Banglore
8	17th and 18th Mar.11	G.D. Training for Third Year students under lead Institute activity @ KIT	Mr. S S Pawar, Mr. S S Nagtilak
9	04/09/2011	MWH Global - Induction Training Program for all MWH Global selects students from all Institutes @ KIT	Experts from MSW global.

Activity Year 2011-12

SR.NO.	Date	Activity/Workshop
1	06/03/2011	Campus recruitment Training for T.E.students from I.T., ELN, and EandTC - from 3rd Jun - 9th Jun. 11
2	8th July- 13th July-2011	Campus recruitment Training for B.E. students from Prod, and Mech
3	18-7-2011	Campus recruitment Training for B.E. students from Prod, and Mech
4	25/7/2011	Campus recruitment Training for B.E. students from CSE, I.T.ELN and E&TC
5	08/06/2011	Guidance seminar for campus interviews by M/s TCS for all branches @ KIT
6	16,17,18/8/2011	Campus recruitment TCS Training for B.E. students from Prod, Mech, E&TC, IT, CSE and ELN
7	24/8/2011	Guidance Seminar on Post Graduation studies in U.K. - British Council, Mumbai
8	11/01/2012	KPIT-Industrial Orientation Course for ETC, ELN, Mech students
9	12/01/2012	TCS Workshop (Orientation Course) for selected candidates Mech, CSE, ELN, E&TC
10	31/1 to 4/2/2012	Campus Recruitment Training by Globarena, Hyderabad - Under Lead Institute @ KIT for T.E. all branches
11	02/01/2012	Guest Lecture by - TCS B.E. All branches
12	4/2/12 to 11/2/2012	Soft Skill Training by Seed Infotech - Under Lead Institute @ KIT for T.E. all branches
13	03/10/2012	Campus Recruitment training - by Digambar Yadage

Activity Year 2012-13

Sr. No.	DATE	ACTIVITIES/Workshops
1	07/07/2012	Campus Recruitment Training by ACE GRAD @ KIT for T.E. Mech

		and Prod, Eln, E&TC, IT., and CSE
2	07/08/2012	Campus Recruitment Training by ACE GRAD @ KIT for T.E. Mech and Prod, Eln, E&TC, IT., and CSE
3	07/09/2012	Campus Recruitment Training by ACE GRAD @ KIT forT.E.Mech and Prod, Eln, E&TC, IT., and CSE
4	21-8-2012	Campus Recruitment Training by ACE GRAD @ KIT for B.E.Civil
5	22-8-2012	Campus Recruitment Training by ACE GRAD @ KIT for B.E.Civil
6	25/8/2012	Visited to Infosys for participation in SPARK-PUN Program - students and faculty
7	26/8/2012	Campus recruitment Training for B.E. students from Civil and MCA
8	27/8/2012	Campus recruitment Training for B.E. students from Civil and MCA
9	28/8/2012	Campus recruitment Training for B.E. students from Civil and MCA
10	09/12/2012	Campus Recruitment Training by ACE GRAD @ KIT for MCA students
11	24/9/2012	Campus Recruitment Training by ACE GRAD @ KIT for CSE, IT, ELN, E&TC, Mech Prod students
12	25/9/2012	Campus Recruitment Training by ACE GRAD @ KIT for ELN, E&TC, Mech Prod, MCA + students
13	26/9/2012	Campus Recruitment Training by ACE GRAD @ KIT for CSE, IT, MCA + Civil students
14	24/11/2012	Seminar by TCS
15	01/08/2013	John Deere Techno-Champ Contest participation for T.E. All branches
16	16/1/2013	NIIT Aptitude Test in ordert to participate in the job

Activity year 2013-14

Sr. No.	Date	Activity
1	01/08/2013	John Deere Techno-Champ Contest participation for T.E. All branches
2	16/1/2013	NIIT Aptitude Test in order to participate in the job
3	31-1-2013	Soft Skill Training by M/s Globarena
4	1-2-2013 to 3-2-2013	Soft Skill Training by M/s Globarena - Under Lead Institute
5	13/2/2013	TCS Campus Commune @ KIT
6	16/3/2013	Online Test by M/s UNISAFE - for B.E.Mech at KIT
7	20/7/2013	Workshop on Soft Skill - Lecture for T.E. 'B' Div. 11.30 to 12.30
8	21/7/2013	Workshop on Soft Skill - Lecture for T.E. ' ' Div. 10.30 to 11.30
9	27/7/2013	Workshop on Soft Skill - Lecture for T.E. I.T. 2.pm. To 4. Pm
10	08/03/2013	Workshop on Soft Skill - Lecture for T.E. I.T.. 2.pm. To 4. Pm
11	08/04/2013	Workshop on Soft Skill - Lecture for T.E. Mech. 9.pm. To 10. pm (A) 11.30 to 1.00 pm (B)
12	08/06/2013	Workshop on Soft Skill -Lecture arranged by Dr. Heddur for T.E.Civil Engg .(AandB) .
13	02/02/2014	CV preparation and soft skills by Ms. A. A. Kulkarni, for Biotech Engineering BE students

Better career options:

Guest lectures and workshops are arranged by every department of The Institute every year to expose students to new fields and new opportunities in the industry, self employment and post graduation. Few of the conducted activities are listed below.

SR .N O.	Date	Activity	Resource
1	27th Aug. 2010 To 30th Aug. 2010	'Youth Empowerment and Skills' program for Students.	Mr Sanjay Gulbani
2	23rd Sept. 2010	Entrepreneurial Motivation Campaign' program for (Mech, Prod, CSE, IT, ELN, E&TC, Civil, Bio-Tech) Students.	Mr P.P.Kulkarni
3	23th and 24th Oct. 2010	Workshop on " Multi OS - Installation at C-DAC Sunbeam., Pune"	Dr. Vijay Ghokhale
4	19th Jan. 2011	A Guest Lecture on Post Graduation Abroad for B.E. Mech, Prod students	Mr. Jaywant Awate
5	23rd Sept. 2010	Entrepreneurial Motivation Campaign' program for (Mech, Prod, CSE, IT, ELN, E&TC, Civil, Bio-Tech) Students.	Mr P.P.Kulkarni
6	24-25/1/2012	Ethical Hacking	IIT Kharagpur
7	25/7/2012	Guidance Seminar on Graduate Engineering Studies in the US	Mr. Ryan Pereira (USIEF) Mumbai
8	20/1/13 to 22-1-2013	Entrepreneurship Awareness Camp (EAC) for All branches from S.E. to B.E.	Prof. P. P. Kulkarni
9	2,3,5,6,7/3/2013	Orientation Training for F.E. All branches	"Universal Education, Bangalore
10	03/05/2013	"NPTEL"Awareness Workshop at Institute for All branches	Classic Knowledge, Chennai
11	13/7/2013	Conducted seminar on "GATE Awareness" for all branches	
12	25/7/2013	Career Opportunities Lecture arranged for T.E. Prod. Engg .	Dr. Heddur
13	26/7/2013	Career Opportunities Lecture for T.E. Engg .	Dr. Heddur
14	08/04/2013	TOEFL and IELTS coaching for students of all braches 2.30 pm to 4.30 pm	

- **Community orientation:** The Institute make students aware the regarding their responsibility towards society and inculcate it at early stage of their corporate or professional life. The Institute deputes a

team of faculty members to organize such programs. NSS is one of the strong contributor. Through NSS students participate in a well organized activities listed below:

NSS activity: Year 2012-13

Sr. No.	Day and Date	Activity	Details	Participants
1	Thursday 15 Aug.12	Full Attendance Day	Create awareness among students regarding attendance on flag hosting program Create 15 min. video show	750 students were present for Flag Hoisting ceremony.
2	Thursday 15 Aug.12	Wall Magazine Competition	Interdepartmental Competition Social, technical , National Issue	7 Teams from 7 Dept. 4 Judges
3	Wednesday 12 Sept.12	Aamhi Bharatiya	Outside Maharashtra Student Get-Together	60 students + NSS Volunteers
4	18-20/09/12	Eco-friendly Ganesh Utsav	Eco Friendly Idol of Ganesha, Procession with Tal and Clapping	16 students participated in Lezim Show 9 Dept.and all teaching and nonteaching faculty
5	Saturday, 12 Jan.13 134 Students Participate	Youth Rally	150th Birth Anniversary of Swami Vivekananda Rajarampuri –Panjarpol - Udyam Nagar-Hutatma Park	134 Students and faculty Participated
6	Friday, 18 Jan.2013	Career for Engineers in Army	Army Recruitment Office Kolhapur Col. R.K.Kaushal speech	300 Boys and Girls
7	Saturday, 26 Jan.13	Full Attendance Day.	Create awareness among students regarding attendance on flag hosting program Create 15 min. Video show	850 students were present on that day
8	Saturday, 26 Jan.13	Interview with Creators	Talk show with Dr.Prasad Devdhar on Rural Development	75 Students and 14 Faculty Members
9	13-19 Feb.13	Shram-Sanskar Shibir	7 Days Residential Camp At.Japhale Tal-Panhala	Boys-26 Girls-10

Sr. No.	Day and Date	Activity	Details	Participants
10	Thursday, 21 March 2013	Blood Donation Program	Shahu Blood Bank	No. of Doners-184

NSS Activities: 2013-14

Sr. No.	Date and Day	Program	Details	Guest	Venue
1	Saturday 04-08-13	Tree Plantation	70 groups did plantation	The Principal	Institute outer Border
2	15-08-13	Full Attendance Day (FAD)	Create awareness among students regarding attendance on flag hosting program	Hon.Trustee Sunil Kulkarni	KIT Campus
3	Saturday 07-09-13	Career In Army	General Awareness among students	Major Vikram Patil	Seminar Hall
4	Wednesday 02-10-13	Shramadan	Cleaning whole Mandir campus	Anna Jambhale	Katyayani Mandir
5	Saturday 12-10-13	Talk with Defense people	General Awareness among students	Sq.Leader Vinayak and Major Rachana Godbole	KIT Institute
6	1 Sept- 31 Oct	Reform Nation	IIT Mumbai Competition	Pramod Jadhav,Dr.Mangala Badadare	Public Places ,Schools, Slums, Institutes
7	6-12 /01/14	Shramasanskar Shibir	Residential Camp @ Japhale	Jui Kulkarni, Mr.K.N.Patil etc.	A/P Japhale Tal-Panhala Dist-Kolhapur
8	12-16 /02/14	New Voter Registration	Registration of New young Voter within Campus Premises	-	KIT Campus

Sr. No.	Date and Day	Program	Details	Guest	Venue
9	Saturday 15-02-14	Know your Navy	Indian Navy -ocean of opportunities	Mr.Mansing Mane (Navigation Officer)	Mini Seminar Hall
10	Tuesday 18-02-14	Shiva-jayanti	Lecture on Raja Shivaji –Ek Abhiyanta'	Dr.Amer Aadake	Open Air Theater
11	Wednesday 26-02-14	Blood Donation	-3 Blood Banks -3 Venues -341 Donors	--	Library, Mech-Prod Building, EandTC Building

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

The Institute has a system to collect feedback from following stakeholders in the context of curriculum:

a) Alumni
b) Parents
c) Industry/employer
The experts from industry are involved during the process of curriculum development at the University level.

The feedback forms collect information for following criteria-

Stakeholder	Criterion 1	Criterion 2	Criterion 3	Criterion 4
Alumni	Skills in Engineering Subjects	Problem Solving	Competitive Examinations	Marketing and Entrepreneur Skills
Industry/ Employer	Thrust areas	Aptitude development in engineering	Innovation, creativity and Engineering advances	Communication Skills
Parents	Training requirement for Placement	Continuous assessment and marking scheme	--	--

The above data is communicated to the University during revision of syllabus by the concerned senior faculty during subsequent meetings.

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

The Institute is keenly interested in enhancing students' employability. HODs regularly monitor Programs enrichment activities, and in turn report the principal regarding outcomes and feedback of Programs. Depending on outcomes and feedback received from participant students, every year HODs and subject experts redesign the Programs in consultation with other stake holders namely industry and research organizations.

Also the institution makes sure that the Programs offered include contribution to nation building, fostering global competencies among students, inculcating a value system among students, promoting the use of technology and quest for excellence.

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 is affiliated to Shivaji University, Kolhapur and therefore the structure of different Programs and syllabus are framed by the University. However, the faculty members of the Institute regularly attend workshops and seminars on revision of curriculum arranged by the University. Also the Institute has organized workshops, seminars for framing Program structure and syllabus revision through Board of Studies of different disciplines. The Institute forwards the suggestions of its faculty to the University through the Members of Board of Studies.

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 Programs?

Each faculty member prepares a thoroughly studied document on course objective and course outcome at the beginning of semester. At the end of semester faculty indirectly collect feedback from students representing fast learner, average learner and slow learner. Based on feedback received the faculty modify course objective and outcome to cater needs of the students. The experience derived out of this exercise is used while designing curriculum of affiliated university. Depending on outcomes and feedback received from participant students, every year HODs and subject experts redesign the Programs in consultation with other stake holders namely industry and research organizations and the feedback given by them is reported to the BOS members who

develop the curriculum and accordingly required revisions are incorporated.

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 Institute would like to include.

To meet ever-changing needs of the industry, the management council of the institute decided to add following programs for the benefit of the students in particular and society at large after taking feedback of alumni and parents**.**

The new Programs introduced by the Institute were:-

- B.E.- Electronics and Telecommunication Engineering – Year- 2007-08 with intake capacity of 60 students
- M.E.- Biochemical Engineering and Biotechnology – Year- 2008 with intake capacity of 18 students; CAD/CAM/CAE – Year 2008
    - Intake rise

Sr. No.	Branch	Previous intake	Modified (latest) intake	Year of change
1	Mechanical Engineering	60	120	2011-12
2	Civil Engineering	60	120	2011-12
3	Environmental Engineering	30	60	2007-08

> ### CRITERION II: TEACHING- LEARNING AND EVALUATION

2.1   Student Enrollment and Profile

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

- The Institute is a part of the centralized admission process (CAP) of Directorate of Technical Education (DTE), Government of Maharashtra. This ensures total transparency in admission process.

- Admission notification is hosted by DTE, Maharashtra on their website.

- Institute advertises the admission process in leading State and National level news papers and appropriate media.

- Institute has its own admission cell to provide the information about the admission matters to parents and candidates.

    Transparency

- The admission process for 80 % of intake is governed and managed by the centralized admission process (CAP), Govt. of Maharashtra on-line counseling process and the whole process is fully transparent for everybody from students to the Institute authority

- Students can fill up both the choice of the stream and the college by on-line counseling process followed by online registration.

- 20% Management quota seats are filled at the Institute level as per the admission rules of DTE.

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 programs of the Institution.

- The Institute participates in centralized admission process of DTE, Maharashtra State Government. It follows all admission rules, regulations and guidelines set up by the state government.

- The eligibility criteria for the selection of students for admission in different level of courses are as given below:

- **B.E. - 65%** Students are admitted through Maharashtra State Common Entrance Examination (MSCET).

- **15%** Students are admitted through All India Engineering Entrance Examination (AIEEE)

- **20%** Students are admitted under Management Quota subject to having valid score in MSCET of current year.

- **20%** Students of approved intake are admitted through Central Admission Process Conducted by DTE, Maharashtra for Lateral Entry in 2nd year.

- **M.E.** - The Selection Process for admission is based on the score in the national level Graduate Aptitude Test for Engineering (GATE) conducted by IITs.

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

- The details of marks at admission at entry level are given below.

SN	Programme	Year Of Admission	Minimum CET Marks Of Admitted Students			Maximum CET Marks of Admitted Students		
			KIT	BV	DYP	KIT	BV	DYP
1	E&TC	2010-2011	97	47		143	121	
	Electronics		83	37	98	140	104	121
	Mechanical		65	51	99	175	137	154
	Production		87	-	82	121	-	125
	CSE		89	39	72	140	111	137
	IT		77	33	84	121	101	107
	Civil		89	-	83	128	-	110
	Environmental		76	-		103	-	
	Biotechnology		66	-		114	-	
2	E&TC	2011-2012	79	45	-	132	114	-
	Electronics		70	25	51	112	90	100
	Mechanical		41	49	73	164	123	125
	Production		61	-	60	111	-	96
	CSE		82	47	65	125	92	101
	IT		56	23	66	103	80	88
	Civil		56	24	58	104	79	97
	Environmental		50	-	-	106	-	-
	Biotechnology		47	-	-	113	-	-
3	E&TC	2012-2013	77	15	-	145	105	-
	Electronics		81	18	57	113	90	98
	Mechanical		58	45	72	146	113	122
	Production		75	-	53	113	-	90
	CSE		52	5	66	135	97	101
	IT		75	11	39	108	78	77
	Civil		60	9	41	123	89	99
	Environmental		54	-	-	107	-	-
	Biotechnology		49	-	-	119	-	-
4	E&TC	2013-2014	44	24	-	130	111	-
	Electronics		40	22	44	107	86	78
	Mechanical		91	41	47	147	109	117

Production		61	-	52	108	-	84
CSE		64	39	45	125	81	103
IT		50	32	52	102	32	62
Civil		48	36	59	112	78	127
Environmental		52	-	-	109	-	-
Biotechnology		52	-	-	103	-	-

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?**

- As the engineering admission process in the state is governed by Director of Technical Education, institute follows rules, regulations and guidelines set up by the state government.
- The Institute analyses student profile in terms of PCM and CET/AIEEE marks.
- The Institute has set up an Admission Cell, which is responsible to review the admission process and student profile annually. The Admission Cell of the Institute collects the detailed information about the admitted students and analyze it to categorize the students on the following aspects:
  - Academic background
  - Economic status
  - Gender representation

  Outcome:
  This helps to understand the market trend (i.e. expectations of prospective students from different branches).
  Contribution to Improvement of the process:
  Based on the outcome the Institute decides the advertising strategy to improve the admission number.

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 admission process in the State is governed by Director Technical Education; Institute follows the rules, regulations and guidelines set up by state government body. It admits students of categories like, SC,

ST, and OBC, women, economically weaker sections as per the government norms, rules and regulations and allotments.

▪ Institute offers the admissions under the Tuition Fee Waiver Scheme which is mainly developed for Economically Weaker Section of the society as allotted by the central admissions committee.

▪ There is special reservation for the candidate of J and K and government of India (Mizoram student) as per the norms.

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

▪ The admission process is governed and managed by the centralized admission process (CAP), Gov. of Maharashtra on-line counseling process and the whole process is very much transparent from the very bottom-line, i.e., students to the College authority. Students can fill up both the choice of Stream and College by on-line counseling process followed by online registration. Hence demand ratio is calculated from intake capacity and number of admitted students.

▪ **UG**

SR. NO.	Name of Programs	Year	Intake capacity	No. Of Students Admitted	Demand Ratio
1	E&TC Engineering	2010-11	60	61	1.00
		2011-12	60	62	1.00
		2012-13	60	63	1.00
		2013-14	60	58	0.97
2	Electronics Engineering	2010-11	60	61	1.00
		2011-12	60	63	1.00
		2012-13	60	60	1.00
		2013-14	60	60	1.00
3	Mechanical Engineering	2010-11	60	61	1.00
		2011-12	120	127	1.00
		2012-13	120	127	1.00
		2013-14	120	127	1.00
4	Production Engineering	2010-11	60	61	1.00
		2011-12	60	62	1.00
		2012-13	60	63	1.00
		2013-14	60	59	0.98
5	Computer Science and Engineering	2010-11	60	61	1.00
		2011-12	60	62	1.00
		2012-13	60	64	1.00
		2013-14	60	62	1.00

SR. NO.	Name of Programs	Year	Intake	No. of Students Admitted	Demand Ratio
6	Information Technology	2010-11	60	59	0.98
		2011-12	60	62	1.00
		2012-13	60	57	0.95
		2013-14	60	54	0.90
7	Civil Engineering	2010-11	60	61	1.00
		2011-12	120	125	1.00
		2012-13	120	125	1.00
		2013-14	120	127	1.00
8	Environmental Engineering	2010-11	60	59	0.98
		2011-12	60	62	1.00
		2012-13	60	45	0.75
		2013-14	60	52	0.86
9	Biotechnology Engineering	2010-11	60	51	0.85
		2011-12	60	62	1.00
		2012-13	60	50	0.83
		2013-14	60	47	0.78

▪ **PG**

SR. NO.	Name of Programs	Year	Intake	No. of Students Admitted	Demand Ratio
1	E&TC Engineering	2010-11	18	18	1.00
		2011-12	18	18	1.00
		2012-13	18	18	1.00
		2013-14	18	18	1.00
2	Mech-Prod Engineering	2010-11	18	18	1.00
		2011-12	18	18	1.00
		2012-13	18	18	1.00
		2013-14	18	18	1.00
3	CAD/CAM Engineering	2010-11	18	18	1.00
		2011-12	18	18	1.00
		2012-13	18	17	0.94
		2013-14	18	18	1.00
4	Biochemical Engineering and Biotechnology	2010-11	18	18	1.00
		2011-12	18	13	0.72
		2012-13	18	17	0.94
		2013-14	18	9	0.50

The reasons for increase/decrease in the admissions are decided as follows:

▪ National and global employment scenario which is projected by industry and society survey.

▪ Total number of seats available for admissions in the State.

Action for improvement:

- Advertisement in National Level News Papers and News Channels
- Counseling before and during admission process
- Enhancing Training and Placement activities.
- Conducting Value Added Courses in consultation with Industry

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?

- Ramp ways at appropriate places, facilities in toilets are made available for such students for easy movement.
- Preferential treatment is given in the central library.
- Special arrangements are made at the time of examination.

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

YES.

- Before the commencement of First Year, objective type test for the students is conducted to check their proficiency in English and Basic Sciences.
- Students are also categorized according to their medium of education (English or regional language) and area (Urban or rural).
- The Institute organizes lectures for final year students to guide them for the selection of project work.
- At the beginning of the semester, the first lecture of each course is devoted to motivate the students to develop the proactive attitude towards the subject.

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 Program of their choice?

The institute conducts Orientation Programs for newly admitted students which emphasize the following points:

- Information about Library Facility including Book-Bank, Digital Library and Departmental Library, Wi-Fi enabled Campus
- Recent Market trends and Training Placement Activities in the campus.

- General awareness of different subjects and their Importance in Engineering field.

- Importance of fundamental concepts of Basic Sciences in Engineering.

- Importance of values and ethics, attendance, etiquettes, discipline and punctuality.

- The ability to adapt to the physical environment of the campus.

- Importance of first year performance as it has major contribution in the selection of Best Outgoing Student.

- Considering the content and depth of XII standard syllabi, the gap in the syllabi to understand the engineering curriculum of first year is identified and it is treated as prerequisite and lecture plan is designed accordingly.

- Institute identifies the gaps between the university curricula which is to be bridged to understand the higher level programs of the subjects.

- Institute arranges add on and remedial lectures to bridge these gaps.

- Institute organizes expert lectures from Industry and Academia.

- Information regarding knowledge gaps in the curriculum and action taken to bridge the gaps in the syllabus of FE Department.

SR. NO.	Class and Program	Course in which gap is found	Nature of gap	Action Taken
1	F. E. (All)	Applied Mechanics	Trigonometry for spheres, cylinders , Momentum – Theory of rebouncing, Vector calculations for force system	Included in lesson plan and Assignment
2	F. E. (All)	Engineering Mathematics – I	Standard elementary function, Derivative, integration, Trigonometry	Conduct tutorial in 1st week
		Engineering Mathematics – II	i) Tracing the graphs ii) Physical interpretation of differential equations	Conduct tutorial in 1st week

- Information regarding knowledge gaps in the curriculum and Action taken to bridge the gaps in the syllabus from SE to BE in Production Engineering Department

SR. NO.	Class and Program	Course in which the gap is found	Nature of Gap	Action Taken
1.	S.E.	Engineering Mathematics – III	i) Standard elementary function, Derivative, integration, Trigonometry ii) Physical Sciences and Engineering problems are expressed in terms of mathematical expression and their solutions interpreted	Included in Lesson Plan
2.	S.E.	Electrical Tech. and Ind. Electronics	Knowledge of Equipment used currently	Assignments, Industrial Visits
3.	S.E.	Analysis of machine elements	Awareness of FEA and computer techniques	Extra Lectures
4.	S.E.	Machine drawing	Latest practices followed in industry	Case studies
5.	T.E.	Design of machine elements	Awareness of FEA and computer techniques	Extra Lectures
6.	T.E.	Design of jig fixture and dies	Modern applications in machine shops	Assignments and Industrial visits
7.	T.E.	Basic CNC Lab.	Knowledge of CNC technology	Industrial visits
8.	T.E	Metallurgy II	Knowledge of composite materials	Industrial visits, Extra lectures
9.	B.E.	Computer aided design and analysis	Awareness of FEA and computer techniques	Assignments
10.	B.E.	Adv.CNC Lab	Knowledge of CAD to CND part programming	Industrial visits, Assignments
11.	B.E.	Mechatronics system	Exposure to Microcontrollers, Signal Processing	Mini projects, Practical assignments

- Information regarding knowledge gaps in the curriculum and Action taken to bridge the gaps in the syllabus from SE to BE in Environmental Engineering Department

SR. NO.	Class and Program	Course in which the gap is found	Nature of Gap	Action Taken
1	S.E.	Engineering Mathematics – III	i) Standard elementary function, Derivative, integration, Trigonometry ii) Physical Sciences and Engineering problems are expressed in terms of mathematical expression and their solutions interpreted	Included in Lesson Plan

2	S.E.	Environmental Chemodynamics	Characteristics of subterranean media	Taught as Additional topic
3	T.E.	Environmental Geotechnology	Soil chemistry	Taught as Additional topic
4	T.E.	Quantity Surveying and Evaluation	Problem solving	Additional assignments, section drawing
5	T.E.	Urban and Rural Planning	History of town planning	Student seminars
6	T.E.	Solid Waste Management	Proximate and Ultimate analysis of solid waste	Additional Practicals conducted
7	T.E.	Environmental Management	No practical work	Extra project work
8	B.E.	Optimization techniques	Numerical methods	Extra classes conducted

- Information regarding knowledge gaps in the curriculum and Action taken to bridge the gaps in the syllabus from SE to BE in Biotechnology Engineering Department

SR. NO.	Class and Program	Course in which the gap is found	Nature of Gap	Action Taken
1	S.E.	Engineering Mathematics – III	i) Standard elementary function, Derivative, integration, Trigonometry ii) Physical Sciences and Engineering problems are expressed in terms of mathematical expression and their solutions interpreted	Included in Lesson Plan
2	T.E.	BPED	Case studies are not included in syllabus	Add on lecture

- Information regarding knowledge gaps in the curriculum and Action taken to bridge the gaps in the syllabus from SE to BE in Information Technology Department

SR. NO.	Class and Program	Course in which the gap is found	Nature of Gap	Action Taken
1	S.E.	Engineering Mathematics – III	Standard elementary function, Derivative, integration, Trigonometry, Statistics	Included in Lesson Plan
2	S.E.	Multimedia Technique	Multimedia functions	Workshop conducted
3	S.E.	Advanced Microprocessor	Architecture of ICs	Faculty takes the remedial classes
4	T.E.	System software	Pass structure of assembler	Faculty takes the remedial classes

- Information regarding knowledge gaps in the curriculum and Action taken to bridge the gaps in the syllabus from SE to BE in Civil Engineering Department

SR. NO.	Class and Program	Course in which the gap is found	Nature of Gap	Action Taken
1	S.E.	Engineering Mathematics – III	i) Standard elementary function, Derivative, integration, Trigonometry ii) Physical Sciences and Engineering problems are expressed in terms of mathematical expression and their solutions interpreted	Included in Lesson Plan
2	T.E.	Strength of Materials- III	Students are weak in mathematics as they do not have this subject at diploma level.	Additional Lectures/Assignments.

- Information regarding knowledge gaps in the curriculum and Action taken to bridge the gaps in the syllabus from SE to BE in Computer Science and Engineering Department

SR. NO.	Class and Program	Course in which gap is found	Nature of gap	Action Taken
1	S.E.	Engineering Mathematics – III	Standard elementary function, Derivative, integration, Trigonometry, Statistics	Included in Lesson Plan
2	T.E.	Database Engineering	First and Second Normal Forms	Faculty takes the extra lectures
3	S.E.	Discrete Mathematical Structure	Predicate Calculus	Faculty takes the extra lectures
4	T.E.	System Programming	Linkers and Loaders	Faculty use reference books
5	T.E.	Computer Algorithm	Bipartite Graph	Faculty takes extra lectures

- Information regarding knowledge gaps in the curriculum and Action taken to bridge the gaps in the syllabus from SE to BE in Electronics Engineering Department

SR. NO.	Class and Program	Course in which gap is found	Nature of gap	Action Taken
1	S.E.	Engineering Mathematics – III	i) Standard elementary function, Derivative, integration, Trigonometry ii) Physical Sciences and Engineering problems are expressed in terms of mathematical expression and their solutions interpreted	Included in Lesson Plan
2	S.E.	Network Analysis	Mathematical Efficiencies for Direct Second Year Admitted students	More Assignments based Numerical Problems given.
3	S.E.	Electronic Circuits Analysis and Design	Fundamental circuit design aspects and mathematical analysis	Extra Lectures for Direct Second Year Admitted students
4	S.E.	Programming Techniques-	'C'-Programming	Extra Lectures for Direct Second Year Admitted students
5	T.E.	Digital System Design	Digital Design systems concepts	Extra Lectures for TE students
6	B.E.	Embedded Systems	Industrial Project awareness	Extra Lectures for BE students

- Information regarding knowledge gaps in the curriculum and Action taken to bridge the gaps in the syllabus from SE to BE in Electronics and Telecommunication Engineering Department

SR. NO.	Class and Program	Course in which the gap is found	Nature of Gap	Action Taken
1	S.E.	Engineering Mathematics – III	i) Standard elementary function, Derivative, integration, Trigonometry ii) Physical Sciences and Engineering problems are expressed in terms of mathematical expression and their solutions interpreted	Included in Lesson Plan
2	T.E .	Electronic System Design	Basic principles of SMPS & Total Design.	Faculty takes the extra lectures

- Information regarding knowledge gaps in the curriculum and Action taken to bridge the gaps in the syllabus from SE to BE in Mechanical Engineering Department

SR. NO.	Class and Program	Course in which gap is found	Nature of Gap	Action Taken
1.	S.E.	Applied Thermodynamics	Analysis of modern steam power cycles, Recent development in steam power plants, Use of software's for solving problems	Visit to steam power plants Use of commercial software's like fluent and Gambit to solve thermodynamics problems and to analyze performance of condensers and nozzles
2.	S.E.	Manufacturing processes	Latest techniques in use of software in casting simulation in evaluating metal flow, mould fill, hot spots etc. The environmental effects of casting and various manufacturing processes. Study of electric furnaces (mainly induction furnace). Charge calculation for metallurgical control in casting	Demo of Autocast simulation software, Industrial visit Extra Lectures
3.	S.E.	Fluid Mechanics	Use of software tools for analysis of fluid flow problems. Recent trends in fluid mechanics.	Video's & animations for better analysis. Extra Lectures
4.	S.E.	Metallurgy	Thermo-mechanical treatment an advanced manufacturing process. Strengthening Mechanisms for improving mechanical properties of alloy	Extra Lectures
5.	T.E.	Theory of Machines	Use of latest tools, technique ,software and equipment	Additional lecture , Industrial visit, Guest/Expert lecture
6.	T.E.	Heat & mass transfer	Recent trends in heat exchangers. New software for analysis and calculations . Recent development in measuring devices	Demo of latest Soft wares,Industrial Visits and Guest Lectures.

SR. NO.	Class and Program	Course in which gap is found	Nature of Gap	Action Taken
7.	T.E.	Manufacturing Engg.	Recent trends in Manufacturing Engineering Software for analysis etc	Expert lectures on Recent Trends.
8.	T.E.	Control Engg.	Actual design setups	Industrial visits, Video lectures in coordination with NPTEL, Workshops and seminars at academic institutes, use of software.
10.	T.E.	Metrology & Quality Control	Latest Tools and Techniques of quality control, Latest Technologies in Measurement and Inspection	Industrial Visits and Video Lectures
11.	T.E.	Internal Combustion Engines	Recent Developments in Automobiles and Euro norms	Presentation of Euro norms through Expert Guest Lectures
12.	T.E.	Industrial Fluid power	Different Applications of Systems, Industrial Applications	Industrial Visits.
13.	T.E.	C.I.M.	Different Simulations, and Software used for data base management	Demonstrations and different softwares used in industries through industrial visits and guest lectures.
14.	T.E.	I.M.O.R.	Latest Techniques of Management and simulation softwares for planning and scheduling	Recent trends and developments are discussed in the lectures and shared videos of some recent development during the lectures
15.	B.E.	R.A.C.	Awareness of impact of engineering solution on environment, society and contemporary Ability to demonstrate skill to use latest tools ,technique, software and equipments	Tooling used in Refrigeration and air conditioning industry.

SR. NO.	Class and Program	Course in which gap is found	Nature of Gap	Action Taken
17.	B.E.	Industrial Product Design	Commercial aspects of product development . Knowledge of required taxes and laws	Case studies and videos
19.	B.E.	Power Engineering	Recent trends in power plant New software for analysis and calculations . Problem related to carbon credits. Recent development in measuring devices	Visits to different power generation plants, Guest lectures
20.	B.E.	Industrial Automation & Robotics	Required field work	Field work through Industrial training on robotics

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

To sensitize its staff and students on issues such as gender, inclusion, environment:

▪ Institute provides equal opportunity for all to participate in various activities and processes which include administrative activities, co – curricular and extracurricular activities, sports, deputation to the courses, and higher studies, appointments, committees, placements etc. without any discrimination (gender, caste, religion).

▪ Institute has set up Women Grievances Redressal Cell (Internal Complaints Committee, formerly the VISHAKHA Samiti) that functions separately for the benefit of the women employees and girl students.

▪ Institute celebrates Women's Day and organizes seminars regularly on women empowerment.

▪ Institute organizes events like hostel day, get-together, Ganesh festival, Knowledge Enhancement Lecture Series, annual social function to promote harmony and inclusion.

▪ Institute organizes special training programs on ethics - moral values and the special social activities to maintain good social environment in the Institute under NSS activity and activities conducted by other social forums like Ignited Mind Movements. About forty percent girl students are involved in NSS activity.

- Institute publishes yearly magazine 'Technique' and wall magazines that provide platform to the students and staff to express their views on socioeconomic, educational issues and promote publication of their literature.

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

The advanced learners are identified from their participation in classroom discussion, performance in the assessment tests, performance during the oral examination, participation in classroom seminars and questioning ability, University result analysis, etc.

- The advanced learners are encouraged to participate in symposia, workshops and seminars to gain knowledge on the latest developments.

- The students are encouraged to take up industry based projects and mini projects in the advanced topics under the guidance of the faculty members.

- They are provided with the guidance about patents, project management and prototype building.

- They are provided with the extra exposure by organizing competitions on paper presentations, projects, games, software development etc.

- Advanced learners are encouraged to lead the students' association team which organizes various activities viz. paper presentation, poster presentation, lecture series etc.

- Special GATE coaching for advanced learners is given by concerned faculty. GATE preparation coaching software is installed.

- Institute has signed MOU with KPIT Technologies Ltd. The institute and KPIT jointly organize Innoways (technical competitive activities) and Training Progammes for Electronics and E&TC students. This Program enables the students to learn the state of the art technologies used by different MNCs in the domain of Automotive Electronics.

- Civil Engineering department conducts training programs on Autocad, GIS, Total station and Staadpro

- The Institute has signed an MOU with Zensar technologies, Pune to offer "Employability Skill Development Program" to CSE and IT students. This program covers technical training in JAVA domain, soft skills training and real-time sponsored projects. The project is of 340 hours duration.

- Jade Global offers real time projects to students from final year CSE and IT branches. The projects are mentored by team leaders from the company.

- Persistent also offers real time projects to students from final year CSE and IT branches. The projects are mentored by team leaders from the company.

- The students of department of Mechanical, Production, CSE and IT regularly participate in national level project competition "TECHNOCHAMP" organized by John Deere, Pune.

- The students of all departments regularly participate in national level project competitions "Invocracy", "Mobiwiz" and "Codevita" organized by TCS, Pune.

- The students of all departments regularly participate in University level programming competition "SEED IDOL" organized by Seed Infotech, Pune.

- The Institute has signed non disclosure agreement with IIT, Bombay. IIT, Bombay has launched the Program "e-Yantra" through which it offers training Program on "Robotics".

- The Institute has been recognized as partner institute by Construction Industry Development Council, New Delhi (CIDC). The institute and CIDC propose to organize training programs for Civil and Environmental Engineering students.

- The Institute has signed MOUs with Platonic India Ltd., Nashik, National Research Centre on Pomegranate, Solapur, and PDEA's Baburaoji Gholap College, Pune through which various training programs are organized for Biotechnology Engineering students.

- Advanced learners are motivated to study diverse technical topics – which are in recent discussion on the global platform – and they are encouraged to use this study to present at different platforms such as writing article in magazine, group discussion, poster presentation as and when they are organized.

- Additional books are given to these students as per their requirement.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the Program 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)?

- Internal evaluation tests of Institute, University result analysis and regular interaction between teacher mentor and student help to get the information about students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker students.

- Teacher mentor interacts regularly with the students assigned to them and find out the academic performance of student and probable reasons for the same. He/she co-relates the result with the categories of the student viz. section of society, physically challenged, slow learners and economically weaker students.

The Institute uses the data as follows.

Physically Challenged

Teacher makes special arrangements to teach the syllabus contents as per the convenience of the respective students.

Slow learner

- The Institute arranges remedial lecturers for slow learners for subjects like BEE, Mathematics and APM before and after college hours.

- Teacher repeatedly teaches the content as per requirement of slow learners.

- Teacher informs the parents regarding improvement in the performance of their ward on regular basis.

- Teacher uploads notes on MOODLE to understand the content easily

- Attempts are made by the teachers to give personal attention to these students.

- Specially developed question banks and assignments are given.

- Participative and progressive slow learners are given chance to improve term work to motivate and appreciate their efforts.

Economically Weaker Section

- Tuition Fee Weavers Scheme (TFWS) is provided.
- Deferred fee payments are permitted for needy students.
- Institute provides information about government and NGO aids, scholarship etc.
- Institute offers book – bank facility.

Disadvantaged sections of society

- SC/ST/OBC/minority students are given benefits of reservations in admission and scholarship as per government norms.
- Institute provides information about free ships, EBC scholarship, different government schemes and education loan facilities to the students and their parents.
- Free book bank facility is provided to SC/ST students.

2.3   Teaching-Learning Process

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

- Academic year starts as per the schedule provided by Shivaji University.

- The head of department conducts a meeting of faculty one month before the semester begins and discusses the syllabus of the program and their subject preferences are asked. Work distribution is made accordingly. Also the academic calendar of the department is prepared which includes assessment schedule, academic events, list of holidays which is in concurrence with the University calendar.

- The students are informed about time table and academic calendar well in advance.

- All the information about continuous assessment report (CAR) is given to the students at the beginning of semester and monthly report is displayed on the notice board.

- The faculty prepares course file which includes detailed work plan, notes and other study material, experimental write ups, previous year university question papers, assignments, e- learning material etc. The file is evaluated by academic audit committee regularly.

- Institute conducts two Unit Tests in a term. Performance of the student is shown to students and parents. Teacher mentor counsels the students about their academic performance.

- The mock practical and orals are also conducted and performance of student is evaluated and informed to all concerned.

- At the end of the term University conducts examination and evaluates the performance of the students.

- Institute carries out result analysis. Institute provides the information to IQAC and seeks the guidelines from it for further improvement.

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

The IQAC contributes a lot in improving teaching learning process. Course file of individual faculty containing study material, assignments, Continuous Assessment Report (CAR), result analysis is evaluated by academic audit committee and the report is submitted to IQAC. Students feedback about teaching learning process is taken and all such inputs are given to the IQAC. The functioning of the IQAC is explained more in the following diagram.

Members of IQAC

Sr. No.	Name of the faculty	Designation /Department	IQAC Designation
1	Dr. V.V. Karjinni	Principal, KITCoEK	Chairman
2	Sri. S.M. Hudli	Secretary, KIT Trust	Member, KIT Management
3	Mr. V.K. Desai	Asso. Prof., Dept. of Electronics Engg.	IQAC Coordinator
4	Sri A.D. Patil Sri V.A. Desai Dr. R.B. Heddur	Registrar, Accountants Officer T&P Officer	Member, KITCoEK Administration
5	Dr. J.S. Bagi	Prof. Dept. of Production Engg.	Members
	Dr. (Mrs.) T.S. Desai	Asso. Prof. Dept. of Physics	
	Mr. S.G. Bhatawadekar	Asso. Prof. & Head, Dept. of Production Engg.	
	Mr. R.A. Nikam	Asso. Prof. & Head, Dept. of Environmental Engg.	
	Mr. S.M. Pise	Asso. Prof. Dept. of Mechanical Engg.	
	Mr. A.R. Nigvekar	Asso. Prof. Dept. of Electronics Engg.	
	Mrs. M.S. Kalas	Asso. Prof. Dept. of Information Technology Engg., NAAC Coordinator	
	Mr. S.S.Varur	Asst. Prof. Dept. of Civil Engg.	
6	Mr. Sudhir Bakare	Marvelous Engineering Works	Member, Alumnus
7	Mr. Sachin Patil	Standard Plates and Vessels Pvt. Ltd.	Member, Industry
8	Mrs. Tanuja Shipurkar	Social worker	Member, Community Service
9	Ms. Amruta Bhosale Mr. Rajwardhan Pandit	Student, BE(CSE) Student, BE(Mech)	Members
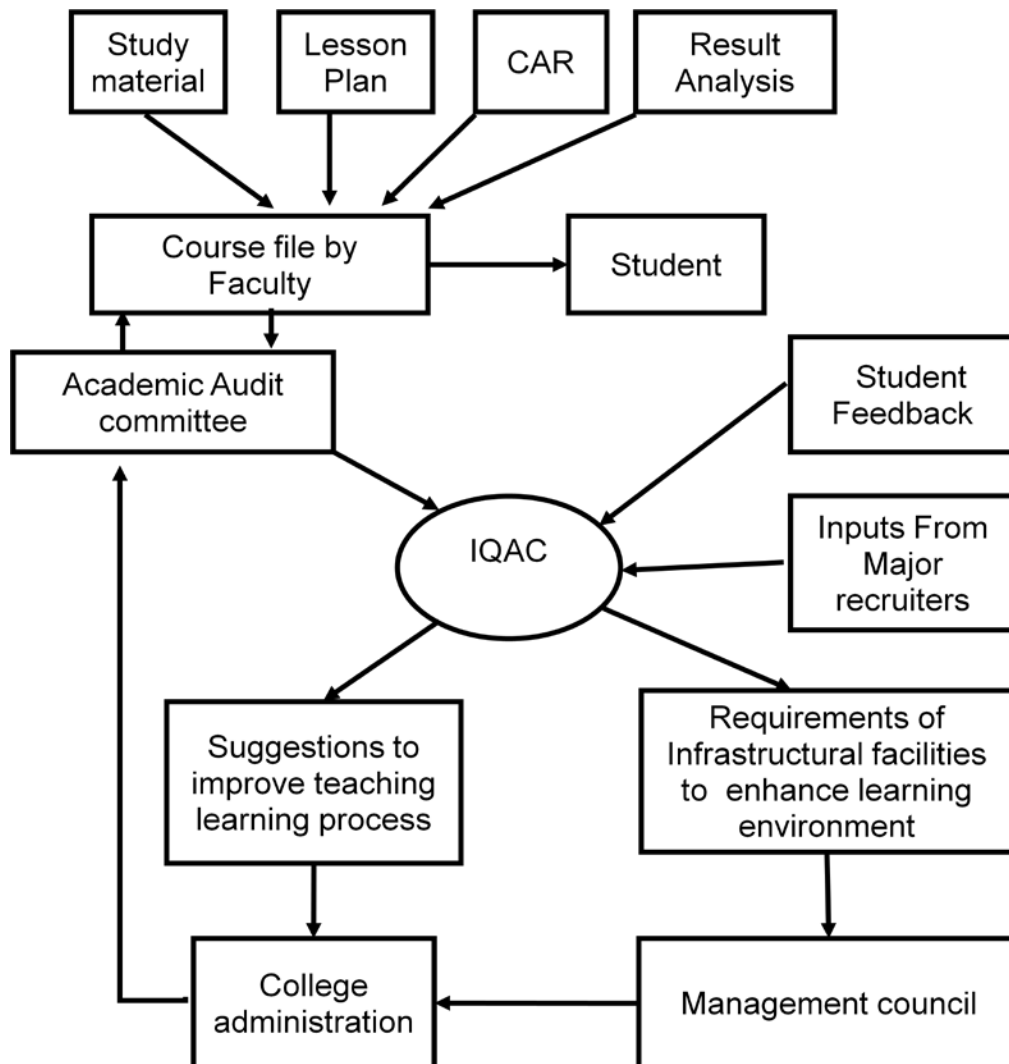
2.3.3   How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

The learning is made student-centric by following measures:

▪ Advance information is given about topics to be taught in the next class so that the students can come prepared for active discussion with teachers.

▪ Giving home assignment and project work and taking follow up.

▪ Add on courses to help in developing special skills.

▪ Library, internet facility and language lab for value addition.

- Availability of learning resources through CDs and DVDs.

- Use of video clips, model to enhance audiovisual effect.

- Arranging field/industrial visits.

- Conducting sessions like group discussion, seminar, quiz, poster presentation, group projects to make the learning more interactive.

- Information Technology Department has provided students with extra hours for Laboratory Experiments.

- Institute has 200+ NPTEL lecture series for students.

- Special module has been included in MOODLE to keep record of attendance of students and marks for attendance are given through MOODLE.

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?

- Institute organizes the events like paper presentation, art exhibitions, Software development competitions, Model development competition, Poster competition, CLIPTIVITY competition mock campus etc to develop creativity and critical thinking among the students

- Institute also encourages and guides students to participate in the national competitions organized by other Institutes and University. (e.g. Avishkar of SUK).

- Students who are interested in Research and Development work are continuously motivated and encouraged to present their Project/Research work in different National/International Seminar/Conference/Workshop and Publish their work in National/International Journal and Seminar/Conference Proceedings.

- Students are encouraged to get involved in industry sponsored projects as a part of their curriculum in final year.

- Students are motivated to write scientific and technical articles for college magazine.

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 Program on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

Virtual laboratory:

- Virtual laboratories have been set up in every department for practical visualization and a copy of e – learning material is kept in individual department and in digital library.

- The Institute has licensed software viz ARISTO, COSSIMIR in Mechanical Department, Orcad, Proteius, MATLAB, Kail, Comsim in Electronics Department, Postgres SQL, JDBC, ODBC in CSE and IT Department, AUTOCAD, ARCGIS, GRAMGIS, SAP, ETAB, STAADPRO in Civil Department, IDRISI ANDES and CARTALINX and AEROMONE in Environment Department, V life MDS in Biotechnology Department MATLAB7.0 and XILINX 14.2 in Electronics and Telecommunication Department for simulation of different engineering concepts.

E-learning - resources from National Program on Technology Enhanced Learning (NPTEL):

- NPTEL lectures are made available to the students. In NPTEL system there is collection of Video Lectures for different engineering streams and subjects. The material under NPTEL is of 2TB in size.

National Mission on Education through Information and Communication Technology (NME-ICT):

- Institute has IIT, Bombay as Remote learning Center. Institute conducts STTPs for the development of faculty in various trades organized by NMEICT- IIT.

- Institute has conducted 13 workshops under NMEICT program sponsored by MHRD. IIT, Bombay was the center of workshops. The Institute's remote center ID for these workshops is 1092.

Open educational resources

- Faculty members use visual library, digital library, Auto Desk, Pro V, Umbrello, Oscad, Scilab and other Open Source platforms to make the subject easy to understand.

- Webinars organized by International Organizations (IEEE, ACM, IITs, IUCEE, TCS) are made available to the students.

Mobile education:

- Institute has conducted Android 4.2+ based workshop for T.E. and B.E. CSE and IT students. The workshop was sponsored by IIT Bombay.

- Institute organizes online Quiz for students using Clicker software on Akash tablet.

Web based course management (MOODLE server and FTP server):

- In the Institute, Central MOODLE Server has been installed. All faculty members and students are registered members of MOODLE server. Faculty members upload the course material on their account on MOODLE server and students are enrolled to specific courses of their department. The MOODLE server is running on public IP address, which enables the members to access it from anywhere at any time.

- Faculty provides online tutorials, notes, study material to the students through MOODLE. Faculty upload assignment, quiz on MOODLE and grading of students is done. Interactive live lectures are also conducted through MOODLE.

- Special module has been included in MOODLE to keep record of attendance of students and marks for attendance are given through MOODLE.

- Students are benefited as they submit assignment from their home. They can login to course and access all the resources shared by teacher. All the activities of students (Tutorial, assignment, attendance) are monitored.

- Institute has set up File Transfer Protocol (FTP) server that enables faculty to upload their study material. The students and faculties are given an independent space of 2GB each for maintaining their sensitive data in a private and secure manner. This data is available to the beholders even in case of Network Failure through the intranet.

Massive Open Online Course (MOOC):

- MOOC and Coursera websites are accessible in the college campus and the students take this facility to enjoy the live lectures by eminent personalities from all over the world.

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 organizes expert lectures, seminars, conferences, workshops, summer and winter schools to expose student and faculty to advance level of knowledge.

- Institute deputes the faculty for seminars, conferences, workshops, STTPs organized by other institutes.

- Institute has IIT, Mumbai Remote learning Center. Under 'Ekalavya e-outreach' Program Institute conducts two weeks STTPs for the development of faculty in various fields organized by NMIECT- IIT in every summer and winter.

- Institute organizes National and International Conferences for different Programs.

- Institute organizes the paper presentation, project competitions, expert lectures.

- Institute has the students chapters and Institutional membership of professional bodies like IEEE, ISTE, CSI, ISHRAE, SAE, IIPE, CMTI that organize the events to expose the students to latest developments in the field.

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

- The Training and Placement Department does professional counseling of the students about the current industry scenario and skills set expected from the corporate world. (About 300 students having 60% and above score; 70 students having score between 58% and 60%; 65 students having score between 55% and 58% are benefitted.)

- Mentoring – Six of the first year students are allotted to an individual faculty member. Mentoring meetings are conducted by faculty members per month. Issues related to academic performance, attendance, physical and mental status and any other personal problems are discussed and corrective measures are suggested. Reports of the meeting are reviewed by central committee comprising of Principal, Dean (Academics) and Dean (Students activity). For higher classes, to every individual faculty 15 students have been assigned for mentoring. Mentors regularly interact with students and provide academic and personal guidance.

- HODs also counsel the students and advise them from time to time about career guidance, competitive examinations, etc.

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?

- Faculty uses Laptop, modems, digital library, and online journals to download lectures, study materials and data from internet.

- The teachers try to make lectures more student-centric by using ICT based teaching, cooperative learning.

- Institute has developed smart class rooms with web-based teaching. The teachers utilize these facilities to illustrate the concept clearly through audio/video mode.

- Institute has received set of 160 AKASH tablets that helps to conduct online quiz, assignments in classroom with the help of WiFi connectivity.

- Faculty uploads tutorials, notes and study material for the students on MOODLE.

- The students are assigned different tasks such as Group Assignment, Problem Solving and Mini Project. This activity helps to improve self learning ability and teamwork.

  Efforts made by the institution:

- Institute deputes the faculty for teaching learning programs like WIPRO Mission 10X, Infosys Academic leadership, IUCEE Teacher Academy.

- Institute makes arrangement to telecast special Webinars on the related topics.

  Impact of innovative practices on student learning:

- Learning process becomes increasingly personalized.

- It enables students to develop and realize their personal potential.

- Learning process helps the learners to not only enjoy learning, but acquire skills that empower them to actively engage in the development of their personal skills and competences and improve their performance and achievement.

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

Teacher refers the library resources like educational CDs, reference books, text books, UG and PG project reports, Research Journals Transactions, Proceedings for development of study material, projects and seminars.

Library facility:

- More than 47,000 book volumes with 17000+ reference titles.

- Around 100 (national, international) print journals are subscribed to update the current knowledge of the stakeholders in their respective field.

- 345 e-journals have been subscribed.

- As the e-journals access is IP based, the stakeholders can take benefit of this facility from anywhere in the campus at anytime.

- Digital Library comprises of 30 computers with Internet facility

- Free Book Bank facility for SC/ST students and book bank facility for open students at the nominal cost is also provided to fulfill their academic needs.

- Reprography and printing facility available in the Library.

- Institutional library Membership of IIT, Bombay and Shivaji University, Kolhapur

- Vidyasagar Library Management Software with Web OPAC (Online Public Access Catalogue) facility which is convenient to the users to know about the Library Collection.

- Library has taken keen initiatives in arranging book awareness Program which is aptly titled as 'Vachanvedh'. Seven such Vachanvedh programs have been accomplished so far thereby spreading the awareness amongst the reader community.

- Library has also organized Workshop for Research Articles: National Live web Ex by Science Direct to aware the researchers about the scientific publishing, impact factor, peer review process.

- The training session of Elsevier for researchers is also arranged by Library.

- Books are arranged subject wise and department wise and personal attention is given for fulfilling their library related needs.

- Open access facility is available. Library Staff motivate the students for open access to aware them about the latest arrivals.

- Separate Reference, Periodical, Circulation, Digital Library section and reading room facility is available in the Library.

  In addition to the central Library, each department has its own Departmental Library to facilitate easy access to the faculty, students and research scholars.

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

Yes, following are the challenges:

- Teaching plans are prepared in view of the ability of the students and as and when needed they are modified. Also, the individual faculty plan depends upon individual perfection and capacity; it may not match with the academic calendar and hours by University. So it cannot be followed totally.

- Time slots are given for all subjects as per the structure prescribed by University. But certain subjects need lesser or more time. e.g. Engineering mathematics, APM, BEE, SOM, Control system, DBMS, DSP etc. require more time.

- Prerequisite of the subject plays important role in teaching learning
- State government admission process and declaration of result time also affect academic planning.
- Ninety days are given for academics which exclude University holidays, weekly off and days required for co-curricular and extracurricular activities.

Efforts to overcome the challenges

- Institute observes some holidays as working days and make up the academics.

- Additional lectures are adjusted in time table for subjects like mathematics.

- Teachers arrange extra lectures as per the requirement and convenience.

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

- Institute takes feedback from students, alumni, employers and parents.

- After analyzing student's feedback, instructions are given to individual faculty member.

- Institute arranges unit test, retest and analyzes the result.

- Course file of individual faculty containing study material, assignments is evaluated by academic audit committee and the report is submitted to IQAC.

- Institute evaluates the papers and projects prepared by students.

- Institute monitors University ranks and results and evaluates the teaching learning process.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment

and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

Recruitment strategies

Recruitment of faculty is as per AICTE norms. Applications are invited after the approval for the advertisement from the University from eligible candidates through news paper. Applications are scrutinized by scrutiny committee. The Vice Chancellor appoints the committee consisting of experts and interviews are conducted by this committee for the scrutinized candidates.

However, for appointments on temporary basis, applications are invited for walk in interviews through news paper advertisement and well qualified candidates are identified after conducting demo lectures at departmental level and the list of shortlisted candidates is submitted to the office for interviews by the final selection committee.

Retention strategies

- Institute has time bound and performance based promotion policy.
- Institute deputes/sponsors faculty for higher studies as well as conferences, workshops etc. This results in good retention.

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
Ph.D.	05	-	01	01	02	01	10
PG	NIL	-	18	04	55	12	89
Temporary Teachers							
Ph.D.	02	02	NIL	NIL	02	01	07
PG	NIL	NIL	NIL	NIL	18	08	26

2.4.2 How does the institution cope with the growing demand/scarcity of qualified senior faculty to teach new programs/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 identifies qualified senior faculty, it conducts interviews and appoint them.

- Institute organizes expert lectures by inviting the senior and experienced persons from research organizations, industries and academic Institutes.

- Institute extends the services of retired faculty to get benefit of their expertise.

  In last three years, the Institute has invited the visiting faculty in the following fields.

  1.Nano Technology 2. Artificial Intelligence 3. Machine Learning 4. Network Security 5.Data mining 6. Latex

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

a) Nomination to staff development programs

Academic Staff Development Programs	Number of faculty Nominated			
	2010-2011	2011-2012	2012-2013	2013-2014
Refresher courses	09	24	54	19
HRD Programs	13	21	23	23
Orientation Programs	04	06	23	06
Staff training conducted by the university	03	-	-	02
Staff training conducted by other institutions	08	05	07	16
Summer/winter schools, workshops, etc.	16	31`	52	52

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

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

Details of the workshops/training programs conducted

SR. NO.	Name of the Activity	Department	Date	Sponsoring Agency/self sponsored

SR. NO.	Name of the Activity	Department	Date	Sponsoring Agency/self sponsored
1	Workshop on Revision of TE Biotech Engg. Syllabus, (Immunology theory and practicals)	Biotechnology Engineering	7th Jan 2009	Shivaji University
2	Workshop on Research Methodology and use of SPSS	Electronics Engineering	7th and 8th Oct. 2009	Self sponsored
3	Teaching Pedagogy Mission10x Phase-II (Advanced Workshop)	Computer Science and Engineering	20 - 21 July 2010	self sponsored
4	Two week STTP on Total Quality Management in Engineering Education	Basic Sciences and Humanities	23rd May to 3rd June 2011	ISTE
5	Faculty Induction Program	Computer Science and Engineering	10th July 2012	self sponsored
6	Workshop on Aakash For Education	Computer Science and Engineering	10th and11th Nov 2012	KIT in association with IIT, Mumbai
7	Workshop on Syllabus Structure Revision	Civil Engineering	March 2013	Shivaji University
8	One day workshop on Teaching Methodology for FE syllabus revision	Mechanical Engineering	3 August 2013	Shivaji University, Kolhapur

c)   **Percentage of faculty**

- **invited as resource persons in Workshops/Seminars/Conferences organized by external professional agencies**
- **participated in external Workshops / Seminars / Conferences recognized by national/international professional bodies**
- **presented papers in Workshops/Seminars/Conferences conducted or recognized by professional agencies**

	Invited as Resource Person in Workshops / seminar / conferences				Participated in Workshops/ seminar / conferences				Presented paper in Workshops / seminar / conferences			
Year	2010-2011	2011-2012	2012-2013	2013-2014	2010-2011	2011-2012	2012-2013	2013-2014	2011-2010	2011-2012	2012-2013	2013-2014
%	7.8	9.9	10.7	10.9	28	47.7	62.1	75.8	20.8	37.7	54.2	54.6

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

To recharge the teachers, the Institute has following policies.

- Institute deputes the faculty for post graduation.

- Institute deputes faculty for PhD work.

- Institute sponsors faculty for seminar, conferences, summer and winter schools and industrial training.

- Institute organizes National Conferences, FDPs, Summer and Winter Schools, IIT remote center workshops for the faculty.

- Institute provides tablets which are received from IIT remote centre to faculty.

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.

Dr. V.V. Karjinni has received Bharatiya Vidya Bhavan National Award for the Best Engineering College Principal for the year 2013 by Indian Society for Technical Education, New Delhi during 43rd Annual Convention of ISTE on 19th Dec. 2013.

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

Yes, Institute evaluates teachers by taking inputs from students.

- Evaluation of teachers by the students is done through online Students Feedback system TWICE in each semester. Analysis of received feedback is done and it is used for improving the quality of Teaching-Learning-Process. Counseling of the teachers is done by senior professors to make corrective actions.

- Continuous Evaluation of contents of academic diary by academic audit committee.

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?

Scope of evaluation at the Institute is limited to the term work.

Practical and theory evaluation is done by the University. At university level - Practical, Oral Examination and Theory Examination are conducted and evaluation is done by the university through Central Assessment Program and our faculty contributes in the capacity of Paper Setter, Internal/External Examiner for POE, Junior/Senior Supervisor and Examiner, Moderator for Theory Examination, CAP Director and Member of Flying Squad.

- Students are clearly made aware of the eligibility conditions required to appear in the University Examination of respective semester.

- Institute notifies related evaluation process and related documentation on the notice board as well as on moodle platform. This includes schedule of internal Evaluation (Tests and POE) and University examination.

- Institute also notifies the criteria for allocation of term work marks.

- Continuous assessment report (CAR) for all the courses is displayed in respective laboratories every month.

- Institute organizes Faculty Development Programs and presentations on evaluation processes.

- Staff meetings are conducted periodically to review the 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?

- For final year students Project work is evaluated through Seminar and Presentations conducted internally as well as through University evaluation process.

- The Institute has adopted various university reforms such as On-line objective type, MCQ Examinations for some courses.

- For internal evaluation, Institution conducts two unit tests per course per semester and performance based improvement test.

- The Institute has initiated reforms such as ICT based assignment and quiz for some courses through moodle platform.

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?

University Evaluation:

- Institute organizes University examination as per schedule declared by the University. To conduct on line examination, Institute has sufficient IT infrastructure. It effectively monitors the examination.

- Students can apply for photocopy of answer sheet and revaluation of answer books of university end semester examination as per the procedures of the University.

  Internal Evaluation:

- Each department has Test Cell for smooth conduction of Internal Unit Tests. The results of evaluation are declared within eight days. The students can see their respective answer books and discuss their queries with concerned staff. The model answers are also displayed on notice board.

- The term work evaluation is done by respective course teachers. The performance evaluation of students is displayed on notice board through Continuous Assessment Report (CAR). Student can discuss any queries about CAR with the concerned teacher.

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.

Formative assessment approach

- The Institute conducts ICT based evaluation through assignment and quiz for some courses using MOODLE platform.

- Institution conducts two unit tests per course per semester and performance based improvement test.

- It also promotes the student to participate in mini projects, paper presentation, workshop, Seminar etc.
- Institute arranges Industrial visit for the students and students submit the visit report which is also evaluated for term work marks.

Summative assessment approach

- For all theory and practical courses other than project work, the continuous internal assessment carrying 25/50 marks is subdivided into attendance, laboratory experiment / performance, unit test, assignments / tutorials, orals, etc.

- Project work is also evaluated through presentations before internal experts.

- The University end semester examination shall carry 100 marks for theory and 50 marks for practical and oral examination or oral examinations

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.)

- To monitor the student progress, Institute has the continuous internal evaluation system which consists of internal assessment tests (twice in a term), Improvement Test and evaluation of practical exercises.

- Continuous Assessment Report is displayed on Notice board of respective department every month.

- In continuous assessment process, opportunities to improve marks are given to the students participating in activities based on the course like group discussion, seminar, poster presentation etc.

- Institute communicates progress report of their ward to the parents.

- It organizes parents and guardians meet to have a communication once in year.

- Affiliated university also conducts the written/theory/practical examination at the end of semester. The result of same are communicated to the student and parents on the website. The academic monitoring is done on the basis of university result.

- The Institute analyses Program-wise performance of students every year.

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

Graduates attributes specified by the college:

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 responsibilities and 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: Recognize the need for and have the preparation and ability to engage in independent and life- long learning in the broadest context of technological change.

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

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 set up well equipped language laboratory and ETNL Language Lab software has been installed. The activities carried out in language lab help the students to improve their verbal and non verbal

communication and develop soft skill among them.

- Institute encourages the independent learning which includes paper presentation by students, project, innovative mini project, publishing the articles in news paper and gives proper weightage to these heads.

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

- To monitor the student progress, Institute has the continuous internal evaluation system which is very transparent. Continuous Assessment Report is displayed on Notice board of respective department every month and students are free to discuss their queries with concerned teacher and test coordinator.

- For University examination, students can apply for photocopy of answer sheet. Students show the photocopy to concerned course teacher, discuss the grievances and seek advice. As per the advice, he/she can apply for revaluation of answer books to the controller of examination of university as per the procedures of the University.

2.6 Student performance and Learning Outcomes

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

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

- The learning outcomes are notified by presentations, academic diaries.

- Learning outcomes are displayed in the departments.

- Learning outcomes are notified to parents during parent meet.

- Learning outcomes are uploaded on Institute website and moodle.

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

- To monitor the student progress, Institute has the continuous internal evaluation system which consist of unit tests (twice in term), Improvement Test and POE.

- Continuous Assessment Report is displayed on notice board of the respective department every month.

- Institute communicates the grades, marks obtained in the internal examination to the parents and students regularly.

- It organizes regular parents and guardians meet to have a communication with students and parents.
- The university also conducts the written/theory/practical examination at the end of semester. The result of same are communicated to the student and parents .The academic monitoring is also been done from university result.
- The Institute carries out the analysis of University examination result for each Program.

Final Year Result Analysis for Last Four Academic Years
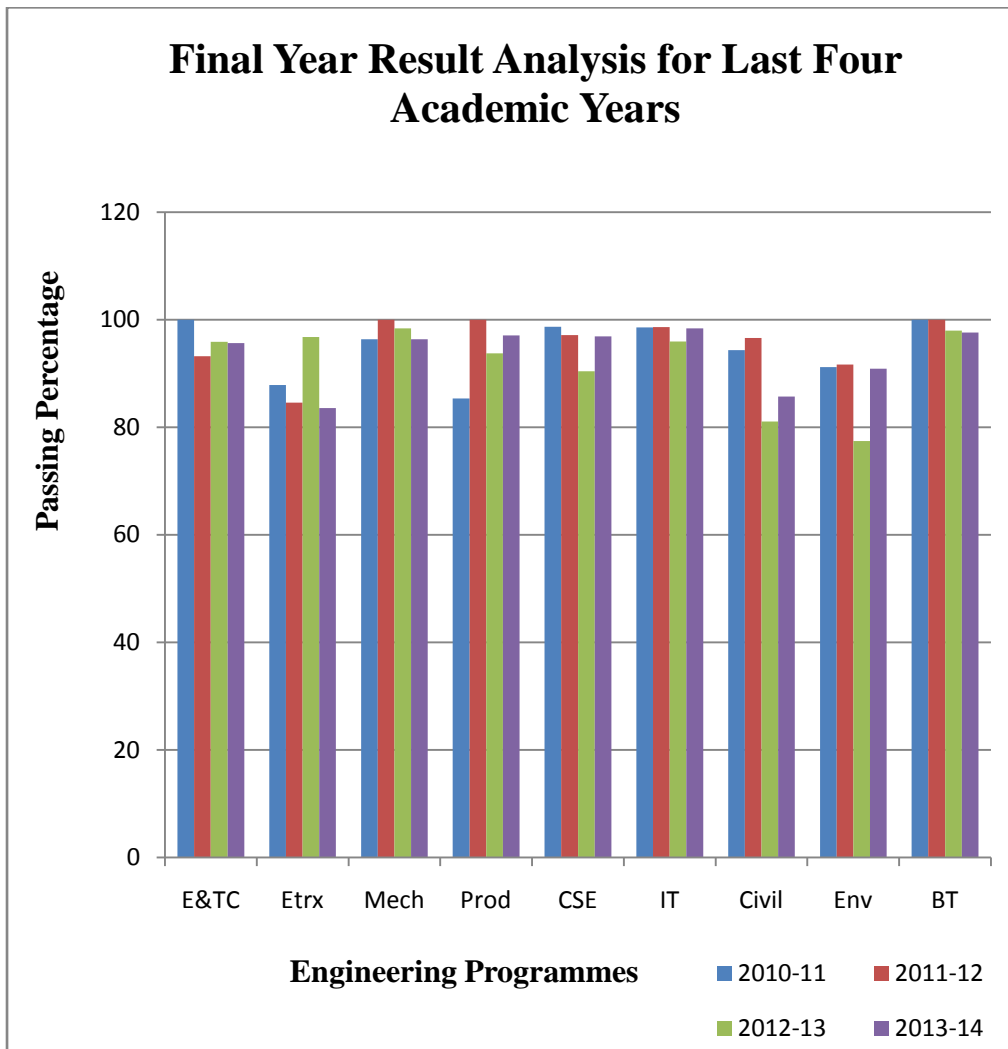
2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

- Institute aims to help the students to utilize their learning potential through the provision of a supportive, vibrant and challenging learning environment and the teaching, learning and assessment strategies are defined accordingly.

- The Institute has framed several academic committees like IQAC, Academic Audit Committee and Research Committee that work to enhance the quality of teaching-learning and assessment in the Institute by providing academic leadership for the continued development of excellence in academic practice.

- Students are active partners with shared responsibilities in teaching – learning process and hence ICT based innovative teaching methods and student centric methods are adopted to enhance participation of students in teaching – learning process.

- Each and every strategy of the Institute is well planned to convert the budding engineers into responsible citizens with the knowledge, skills, attitudes and values. It helps to enhance their employability and progression opportunities.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (quality Jobs, entrepreneurship, innovation and research aptitude) of the courses offered?

- Institute has set up separate entrepreneurship development cell that organizes different programs to inculcate skills of entrepreneurship amongst the students.

- Training and placement department conducts different training programs to enhance employability of the students.

- Institute has structured research committee with the objective to develop research environment in the Institute and motivate faculty and students to get actively involved in research projects. It also helps the faculty to apply for research projects funded by professional bodies like AICTE, UGC, DST and CSIR etc.

- Students are encouraged to take social issues as their problems for mini and major projects.

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

- Every course teacher prepares micro lesson plan and there is verbal questioning at the end of every lecture.

- Students participate in different activities viz. quiz Program, seminar, group discussion, poster presentation conducted by respective course teacher. Report of these activities gives the data about learning outcomes achieved by students and same is analyzed.

- Institute has the continuous internal evaluation system which consists of unit tests (twice in term), Improvement Test and POE. University conducts end semester examination. Analysis of internal examination result and end semester examination result is carried out and the same is related to achievement of learning outcomes.

- Using the report of above mentioned analysis, lesson plan and lecture plan are modified to overcome the barriers of learning.

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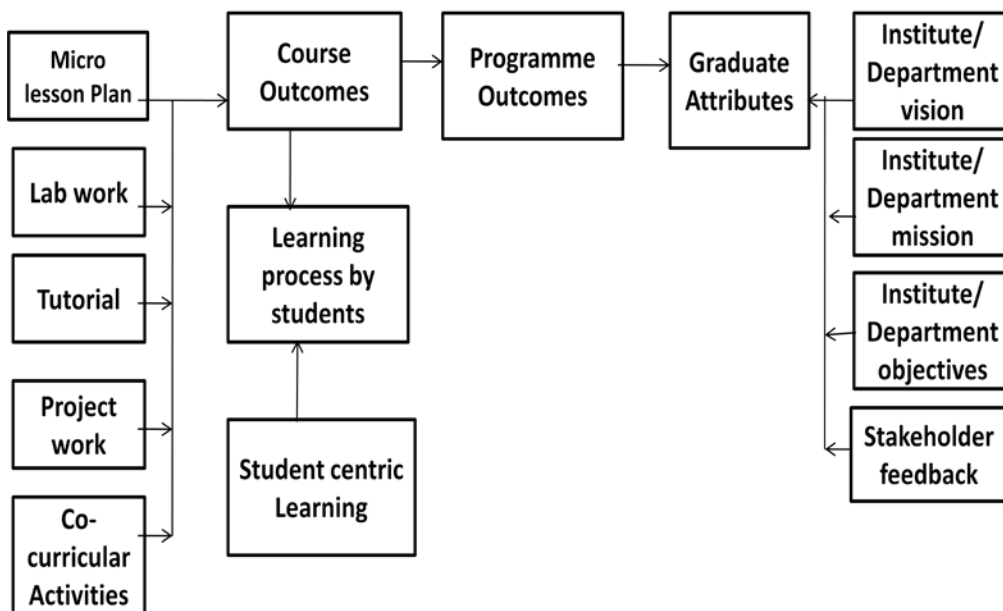
2.6.7 Does the institution and individual teachers use assessment/evaluation as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.

Yes, individual teachers use assessment/evaluation as an indicator for evaluating student performance. Different evaluation methods are used as per the need of the course.

- Every course teacher defines course objectives and course outcomes and designs lesson plan and lecture plan in conformation with the course objectives and adopts innovative teaching methods to achieve the same.

- Students participate in different academic activities viz. tutorial, mini projects, solution of numerical problems, quiz, seminar, oral etc. These activities help to assess proficiency of students in application of mathematical and engineering concepts, effective communication skills. This process helps in achievement of learning outcomes.

- Teacher monitors the laboratory skill developed by students during practical sessions.

CRITERION III: RESEARCH CONSULTANCY AND EXTENTION

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?**

- Department of Electronics has been recognized as Research Centre by Shivaji University, Kolhapur. The Department is running PG program in Electronics and Telecommunication under this research center.

- Departments of Production Engineering which is running PG programs in Mechanical-Production Engineering, CAD/CAM/CAE and Biotechnology Engineering which is running and Biochemical Engineering and Biotechnology have applied to Shivaji University Kolhapur for recognition as research centers.

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

Institute has established a Research Committee to address and monitor Research and Development initiatives of faculty and students,

An institute level research committee has been formulated comprising of senior faculty, Academicians and scientistists from renowned institutes as follows.

Sr. No.	Name	Position	Designation
1	Dr. V.V. Karjinni	Chairman	Principal, KIT's Institute of Engg.
2	Dr. Chetan S. Jarali	Member, Reserch Inst.	Senior Scientist, National Aerospace Laboratory, CSIR, Bangalore
3	Dr. Shrishail B. Andinni	Member, Civil Engg.	Principal, Vijaya Vittala Institute of Technology, Bangalore
4	Dr. Sachin S. Kore	Member, IIT	Associate Professor, Dept. of Mech. Engg., IIT Guwahati
5	S.M. Pise	Coordinator	Associate Professor Dept. of Mechanical Engg.
6	Dr. Anup Kulkarni	Member	Associate Professor Dept. of Biotechnology Engg.
7	Dr. D.J. Sathe	Member	Associate Professor, Dept. of Basic Sciences & Humanities
8	A.R. Nigvekar	Member	Associate Professor Dept. -Electronics Engg.
9	A.S. Patil	Member	Associate Professor Dept. of Information Technology
10	H.M. Thakur	Member	Assistant Professor

Sr. No.	Name	Position	Designation
			Dept. of Production Engg.
11	G.V. Otari	Member	Assistant Professor Dept. of Computer Science
12	S.S. Mane	Member	Assistant Professor Dept. of Civil Engg.
13	Sachin Talekar	Member	Assistant Professor Dept. of Biotechnology Engg.
14	Mrs. M.N. Sarnobat	Member	Assistant Professor Dept. of Environmental Engg.
15	M.D. Sontakke	Member	Assistant Professor Dept. of ETC
16	Dr. M.B. Shinde	Member	Assistant Professor Dept. of BS & H

The Committee meets once in a semester. Additional meetings are conducted as per the requirements.

Impact of Recommendations of Research Committee:

- For enhancing the research activities and imbibing the research culture at the Institute level, a policy is formulated for financial and other required support for research promotion. The researchers are financially supported for organizing and attending the research activities like Workshops, Seminars, National and International Conferences, Faculty Development Programs etc. The allocation of funds depends on level of the activity, number of participants and duration of activity.

- Funds are provided for Patents and Research Publications within India and abroad. The registration charges, travelling and other allowances are reimbursed. An incentive is offered to the Principal Investigator for submitting research proposals. The amount allotted depends upon Research Grant received.

- Researchers are provided with seed money to initiate the research work.

Identification of Research Areas:

Institute has identified research areas of different faculty. Accordingly the infrastructure and facilities for research are developed. Some of the domains in which research is conducted, are listed below.

Sr.No	Department	Areas of Research activities
1.	Mechanical Engg.	Applied thermodynamics, Heat Transfer, Metallurgy/foundry
2.	Production Engg.	Foundry, System simulation, CAD/CAM/CAE
3.	Electronics Engg.	VLSI Design, Embedded System, Communication Engg., Image processing

Sr.No	Department	Areas of Research activities
4.	Civil Engg.	Concrete Technology and NDT, Surveying and GIS, Geotechnical Engineering
5.	Environmental Engineering	Air pollution, Weather forecasting, Wastewater Engineering, Lake Conservation.
6.	Biotechnology Engineering	Cell and Molecular Biology, Bioprocesses, Bioreaction, Microbiology and Biochemistry, Bioinformatics, Environmental Biotechnology.
7.	Computer Science Engg.	Database Engineering, Computer Networks.
8.	Information Technology	Image processing, Artificial Neural Networks, Mobile Adhoc Network.
9.	Electronics & Telecommunication	Antenna, Embedded System

Activities carried out / facilities provided at the institute level to facilitate the research:

- The institute has organized and deputed faculty for programs on "How to write Technical Paper", "How to Present Paper", "Research Methodology", "Innovations", "Patents", "IIT MHRD Courses" etc.

- Departments have applied and received funds from NABARD, DST and AICTE under the schemes of MODROBS and RPS.

- Institute organizes National and international conferences on regular basis.

- Institute organizes State and National level technical events and project competitions every year for students.

- Laptops and Aakash Tabs are provided to each department with internet facility.

  This has led to the following results which indicate the outcomes of activities carried out and facilities provided as follows

- 14 Faculty members have completed their Ph.D in recent past while 25 Faculty members have registered for Ph.D. programs and are pursuing their research work all of these faculty are sponsored for their doctoral work, facilities and infrastructure for some of the faculty was provided within the Institute.

- A marked improvement is observed in the Publication of the papers and articles in journals, national and international conferences by the faculty.

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**

  Principal Investigator (PI) has autonomy to select the area of research and implement the project.

- **Timely availability or release of resources**

  For the smooth completion of research work required manpower and other resources are made available as per the need.

- **Adequate infrastructure and human resources**

  Various schemes funded by different agencies like National Bank for Agricultural and Rural Development [NABARD], RPS of AICTE and Industry based projects are undertaken by the Institute for which the Institute provides necessary infrastructure and other support in the form of JRF etc.

- **Time-off, reduced teaching load, special leave etc. to teachers**

  The principal investigator is provided with facility by the way of special leaves to attend national and international conferences, exhibitions etc.

- **Support in terms of technology and information needs**

  The Institute has updated the library by subscribing e-journals to facilitate research environment and interest amongst the teachers and students.

- **Facilitate timely auditing and submission of utilization certificate to the funding authorities**

  The Institute carries out internal and external audit of funds provided by various funding authorities on regular basis. A utilization certificate is thereby provided.

- **Any other**

  Institute encourages development of research labs in the thrust areas. The facilities are open beyond normal working hours.

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

- Institute organizes "PIONEER" annually, a National Level Technical Event for the students. The event includes Technical Paper presentation competition, software development, quizzes, gaming, aptitude tests, Model Making; robot competitions to develop scientific temper and research culture in student. Institute also organizes annual Programming Competition WIZARD for students

- Institute sponsors the students for attending project and paper presentation competitions and also organizes annual Project Competition for students and awards prizes to best innovations of Students.

- Students are also motivated to participate inter Institutes/university level competition like Avishkar, IIT Tech Fest, NIRMITI etc.

- Institute organizes Research Webinars for the Students.

- Students are motivated to participate in competitions like BAJA SAE INDIA, All Terrain Vehicle competitions, GO CARTING,QUAD BIKE, vehicle design competition; organized by INDIAN SOCIETY OF NEW ERA ENGINEERS(ISNEE).

- The required technical support, workshop facility, laboratories and financial support is also given from the Institute.

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

- **Research activities through guiding students for doctorial research by faculties:**

  Dr. V. V. Karjinni

  1. **RESEARCH SCHOLARS AWARDED Ph.D.   :**

     1. S.B. Anadinni (2010): Awarded Ph.D. degree titled "An Experimental Investigation on the Characteristic Properties of High Performance Self-Compacting Concrete" in Faculty of Civil Engineering by Visvesvaraya Technological University, Belgaum during Jan. 2010.

     2. Rajendra Khatawkar (2010): Awarded Ph.D. degree titled "Relative Weightage Factors of Heterogeneous Vehicular Composition Modelling for an Intermediate City" in Faculty of Civil Engineering, KUVEMPU University, Shimoga during Aug. 2010.

     3. V.D. Gundakalle (2012): Awarded Ph.D. degree titled "Behaviour of High Strength Steel Fibre Reinforced Concrete" in Faculty of Civil Engineering by Visvesvaraya Technological University, Belgaum during Feb. 2012.

     4. M.A. Bhavikatti (2014): Awarded Ph.D. thesis titled "A Study on Accelerated Rehabilitation of Rigid Pavements for Dual Two-Lane Carriageway National Highway" in Faculty of Civil Engineering, Jawaharlal Nehru Technological University, Anantapur during Aug. 2014.

2. **RESEARCH SCHOLARS REGISTERED FOR Ph.D.: 8**

3. **Details of Research Projects completed by institute:**

Sr. No	Title of the UG/PG Research Project/RPS/any other	Name of the faculty and Students	Year of completion
1	Redesigning of Bulk Milk Cooler	S. M. Pise and Final year group of students	2012-2013
2	Redesigning of Bulk Milk Cooler	S. M. Pise and Final year group of students	2013-2014
3	Antibody based piezoelectric biosensor for Hepatitis B	Dr. M.R.Sanandam	In Progress
4	Radio Over Fibre for 3G cellular systems	A. R. Nigvekar	Completed 2008-2009

The faculty is involved in active research in the following ways:

- Faculty guides the UG and PG students for seminars, projects and technical papers.

- Faculty is involved in the research projects funded by University and AICTE.

- Faculty is also associated in the industry sponsored projects. Particularly in the Mechanical and Production Engineering Departments, most of the final year projects are industry sponsored under the guidance of faculty members.

- Faculty regularly presents research papers in conferences and journals.

- Faculty member presents the research papers along with the students in conferences.

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.

Details of workshops/training programmes conducted by Department of Mechanical Engg.:

SN	Name of the Activity	Date	Sponsoring Agency/self sponsored	No of partici pants
	National Conferences			
1	a) National Conference on Recent Trends in manufacturing [NCRTM]	5th and 6th Jan. 2006	Self Sponsored	**125**
	b) World Class Manufacturing	7th and 8th June 2007	Self Sponsored	**150**

SN	Name of the Activity	Date	Sponsoring Agency/self sponsored	No of partici pants
	c) Manufacturing excellence through lean, green and safe practices	9 – 10 Feb. 2013	Self Sponsored	**150**
	National Seminar			
	a) National Seminar on lean and green manufacturing	26th Feb 2012	Self sponsored	**150**
2	*STTP programs*			
	a) Two week STTP on Engineering Thermodynamics	11 -21 Dec 2012	MHRD, GoI	**22**
	b) Two week STTP on CFD	12 – 22 June 2012	MHRD, GoI	**40**
	c) Two week STTP on Heat Transfer	29 Nov. – 10 Dec. 2011	MHRD, GoI	**40**
	d) One week STTP on FEA and Design Optimization	June 2006	Self Sponsored	**50**
	e) One week STTP on Mechatronics	June 2005	Self Sponsored	**40**
3	*Workshops*			
	a) One day workshop on Teaching Methodology for FE syllabus revision	3 Aug. 2013	Shivaji University, Kolhapur	**50**
	b) Two days workshop on CAD/ CAM/ CAE and PLM– Additive manufacturing	27 July 2013	Institute	**40**
	c) Advances in Thermal Engineering	14th - 15th March 014	Shivaji University, Kolhapur	**42**
4	*Student Activities*			
	a) Two days workshop on Non Destructive Testing	22-23 Jan 2009	Self sponsored	**75**
	b) Two days workshop on Non Destructive Testing	1 -2 Sept. 2012	Self Sponsored	**150**
	c) Two days workshop on Non Destructive Testing	30 – 31 Aug. 2013	Self Sponsored	**150**
	d) Two day Industrial skill development programme on Advanced Engine Technologies	28th and 29th Sep 2013	Self sponsored	**150**
	e) Hands on Training on HVAC tools	16th Feb.2014	ISHRAE Kolhapur and KIT	**40**

SN	Name of the Activity	Date	Sponsoring Agency/self sponsored	No of partici pants
	f) I. C. Engine dismantling and Assembling	16th Feb.2014	SAE India and KIT	**40**
5	*Training To Industrial Employees*			
	Training of employees of Kirloskar oil Engines Ltd.	2007-08	Kirloskar Oil Engines Ltd. Pune and KIT COEK	500 Employ ees of KOEL, Kolhap ur

Details of the activities conducted by Department of Production Engg.:

Sr.No	Name of the Activity	Duration and Dates	Sponsoring Agency/self sponsored	No of participants
1	Quality Management trends and scope (ISTE STTP)	4 weeks July 2004	Self Sponsered	45
2	*National Conference* on Recent Trends in Manufacturing [NCRTM]	5th and 6th JAN 2006	Self sponsored	125
3	World Class Manufacturing	7th and 8th June 2007	Self sponsored	150
4	Mfg. Excellence through lean, green and safe practices	9 – 10 Feb. 2013	Self sponsored	150
5	One week STTP on Mechatronics	June 2005	Self Sponsored	40
6	Training of employees of Kirloskar oil Engines Ltd.	2007-08	Kirloskar Oil Engines Ltd. Pune and KIT COEK	500 Employees of KOEL, Kolhapur

STUDENTS ACHIEVEMENTS

Year	Activity	National/State/University	
		1st prize	2nd prize
2010-11	Paper presentation	-	1
	Technical events	8	8
2011-12	Paper presentation	1	--
	Technical events	3	4
2012-13	Paper presentation	1	--
	Technical events	2	4
2013-14	Paper presentation	1	--
	Technical events	1	6

1. Awards / Recognitions received by students:

University Rankers Production Engineering Department.

Academic year	2010 -11	2011 –12	2012 --13	2013--14
No.of rank holders	1	4	5	2

Details of the activities conducted by Department of Electronics Engg.:

SN	Name of the Activity	Duration , Date	Sponsoring Agency/self sponsored	No of participants
1	*Conferences* LATEST 2014	14-15 February 2014	SAP and IEEE Mumbai section	200
2	*STTP programs* a) Signals and systems	2-12 January 2014	MHRD, IITB	28
	b) Analog electronics	4-14 June 2013	MHRD, IITB	35
	c) Mechatronics	2006-07	Self sponsored	40
	d) One week ISTE approved STTP on Advances in Signal Processing using VLSI	31/12/12 to04/01/13	Self sponsored	45

Details of the activities conducted by Department of Computer Science & Engg.

SR NO	Name of the Activity	Duration, Date	Sponsoring Agency/self sponsored	No of participants
1	**1.** **STTP programs**			
	I. Advance Trends In Database Systems	4 Days, 3rd - 6th July 12	Self sponsored	16
	II. Web programming	5 Days, 9-13 June 2010		
	2. **Workshops**			
	1. Object Oriented Analysis & Design using UML	3rd to 6th July 2012	KIT in association with IBM, Pune	14
	2.Android Application Development	24th Nov 2012	KIT	33

Details of the activities conducted by Department of Environment Engg.:

Sr. No.	Name of the Activity	Duration , Date	Sponsoring Agency/self sponsored	No of participants
1	ENVISAFE 2008	11-12th Feb 2008	KIT and MPCB	70
2	MELGSP 2013	8th – 9th Feb 2013	KIT and MPCB	80
3	**Student Activities** Internal Auditor Programme on EMS and OHSAS	2nd to 5th April 2013	KIT	34
4	Internal Auditor Programme on EnMS	21st and 22nd Aug 2012	KIT	34
5	Internal Auditor Programme on Carbon Footprint	8th and 9th October 2012	KIT	43
6	Internal Auditor Programme on EMS and OHSAS	24th and 25th March 2012 and 11th and 12th April 2012	KIT	32
7	Internal Auditor Programme on EMS and OHSAS	4th to 7th August 2011	KIT	42

Workshops Conducted by Civil Engineering Department:

Sr. No.	Name of Activity	Duration, Date	Sponsoring Agency/self sponsored	No. of Participants
1	Three days workshop on STAAD.Pro Training Program by Pradip Kulkarni, Kolhapur	18th to 20th January, 2011	KIT's College of Engineering, Kolhapur	25
2	ETABS software training program by Hitesh Lahoti, Softech, Pune	5th to 7th April, 2011	KIT's College of Engineering, Kolhapur	25
3	One Day Workshop on "Entrepreneurship Development" by Mr. Krishnarao Mali	25th August, 2011	KIT's College of Engineering, Kolhapur	100
4	Five days workshop on STAAD.Pro Training Program by Pradip Kulkarni, Kolhapur	24th to 28th August, 2011	ISTE Students Chapter	30
5	Five days workshop on STAAD.Pro Training Program by Pradip Kulkarni, Kolhapur	21st to 25th September, 2011	ISTE Students Chapter	30
6	One Day workshop/ Training program on Quantum GIS by C. Nishikanth, Mapspace INDIA	4th Sept.2012	KIT's College of Engineering, Kolhapur	35
7	Five days Workshop/ Training program on Quantum GIS by C. Nishikanth, Mapspace INDIA	31st January to 4th February 2013	KIT's Institute of Engineering, Kolhapur	25
8	One Day Workshop on, "Syllabus Structure Revision-Program: Civil Engineering", at KIT's Institute of Engineering, Kolhapur	16th March, 2013	Shivaji University, Kolhapur and KIT's Institute of Engineering, Kolhapur	60
9	Two Days Workshop on, Hands on Training on Total Station under Lead Institute Activity (Kolhapur District) by Prof. S. S. Varur	6th and 7th June, 2013	Lead Institute Activity, Kolhapur District Shivaji University, Kolhapur	35

Sr. No.	Name of Activity	Duration, Date	Sponsoring Agency/self sponsored	No. of Participants
10	One Day and Night Workshop on 'Field Astronomy' by Mr. Lele, Neharu Planetarium, Mumbai	31st January, 2014	KIT's Institute of Engineering, Kolhapur	60
11	One week Training Program on Quantum GIS GIS by C. Nishikanth, Mapspace INDIA	16th to 20th February, 2014	KIT's Institute of Engineering, Kolhapur	28

Details of Student Activities Conducted by Civil Engineering Department:

Sr. No.	Name of Activity	Duration, Date	Sponsoring Agency/self sponsored	No. of Participants
1	"JAL 2011" An Inter Institute Competition at the occasion of World Water Day	22nd March, 2011	KIT's Institute of Engineering, Kolhapur	172
2	MODELE-X, A State Level Technical Fest	2nd to 3rd October, 2011	KIT's Institute of Engineering, Kolhapur	64
3	More than 900 Ganesh Idols were collected during "Ganesh Idol Donation Camp" at Rajaram Tank and Ruikar Colony for social awareness	22nd January, 2011	KIT's Institute of Engineering, Kolhapur	50
4	Guest lecture on Stress Management by Shri. Krishnarao Mali, Kolhapur	18th February, 2011	KIT's Institute of Engineering, Kolhapur	70
5	Guest Lecture on "Introduction to STRUDS" by Mr. R. K. Patil, Softech, Pune	22nd February, 2011	KIT's Institute of Engineering, Kolhapur	50
6	"Shivachatrapati aani Panipat, 250 Varshe: Ek aathvan" by Mr. Kanitkar, Ichalkaranji	10th September, 2011	KIT's Institute of Engineering, Kolhapur	120
7	Guest Lecture on, "Guidance towards Preparation for MPSC and UPSC" by Mr. Mahesh Kanjar	13th March, 2012	KIT's Institute of Engineering, Kolhapur	50

Sr. No.	Name of Activity	Duration, Date	Sponsoring Agency/self sponsored	No. of Participants
8	Guest lecture on, "New career Destination: Infrastructure" by Mr. Sameer Alone, MIT, Pune	30th January, 2013	KIT's Institute of Engineering, Kolhapur	45
9	Suryanamaskar Training program for girls	13th February,2013	KIT's Institute of Engineering, Kolhapur	30

Details of Workshops/STTP Organized by Department of Biotechnology Engineering .

Sr.No	Name of the Activity	Duration , Date	Sponsoring Agency/self sponsored	No of participants
1.	Recent Trends in biological sensors.	21st - 22nd March 2014	AICTE, New Delhi	150
2.	*Workshop* Revision of TE Biotech Engg. Syllabus,	7th Jan 2009	Self sponsored	
3.	Student Activities	**1. Entrepreneurships and skill development programme on Biotechnology(ESDP)** jointly organized by KIT and MSME-DI,Govt. of India, From 10th Dec. 2009 to 15 Jan. 2010(30 days) **2. INDUSTRIAL MOTIVATIONAL CAMPAIGN** (IMC-2011) held on 19th March, 2011 **jointly** organized by KIT and MSME-DI, Govt. of India. **3. Entrepreneurship and skill development programme on Biotechnology(ESDP-2012)** jointly organized by KIT and MSME-DI,Govt. of India, From 12th Jan. 2012 to 13 Feb. 2012.(30 days)	MSME-DI, Govt of India	33 130 35

Details of Workshop/STTP Organized by Information Technology Department.

Sr. No	Title of the program	Dates	Sponsoring Agency/self sponsored	Participants
1	Software Development Techniques for Engineers and Scientists (SDES)	5th Nov. 2011 to 4th Dec. 2011	IIT Bombay with funds amounting Rs. 225000/-	49 faculty members
2	Computer Graphics and Animation	6 October 2013	Self Sponsored	80 Students
3	Introduction to Research Methodologies	2nd & 9th Feb. 2013	IIT Bombay	49 faculty members
4	Aakash for Education	11th Nov. 2012	IIT Bombay	49 faculty members
5	Aakash Android Application Programming Workshop	23rd & 24th Feb 2013 And 2nd – 3rd March 2013	IIT Bombay with funds amounting Rs. 17000/-	69 students
6	Database Management Systems	21st – 31st May 2013	IIT Bombay with funds amounting Rs. 110000/-	37 faculty members

Details of Workshop/STTP Organized by Basic Sciences and Humanities

SR NO	Activity	Dates	Sponsoring Agency/self sponsored	No of participants
1.	STTP on Nano Science and Nano Materials- Current Status and Challenges	14th-18thJune 2010	Self Sponsored Approved by ISTE	30
2.	TQM in Engineering Education	23rd May to 3rd June 2011	Self Sponsored Approved by ISTE	30

Details of the activities conducted by Department of Electronics and Telecommunication.:

SN	Name of the Activity	Duration , Date	Sponsoring Agency/self sponsored	No of participants
1	Workshop on preparation of GRE & TOEFFEL	04-02-2012	Self sponsored	30
2	Work shop "Robotics"	08-09-2012	Self sponsored	43
3	Training program on "Orcad PCB Layout"	13-10-2012	Self sponsored	60

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

SR NO	Department	Prioritized research areas	Expert faculty available
1	Mechanical Department	Materials and Processes	S. S. Mane
2		Refrigeration and Air Conditioning	S. M. Pise
3		Design Engineering	A. M. Qureshi
4		Automobile Engineering	U. S. Bhapkar
5		Heat Transfer	P. B. Mutalik
6		Metrology	S. S. Shinde
1	Production Department	Manufacturing Automation	S. G. Bhatwadekar
2		Production Management	G. R. Naik
3		Industrial Engineering	Dr. J. S. Bagi
4		Quality Management and Industrial Engineering	H. M. Thakur
5		CAD/CAM	S. B. sangale
6.		Manufacturing engineering	P. P. Powar
1	Electornics Department	Optical communication	Dr.A.S.Vaingankar
2		Digital Signal Processing	Dr.M.S.Chavan
3		Wireless Communication	Dr.Y.M.Patil
4		Speech Signal Processing	Mrs.M.R.Dixit
5		VLSI Design and Embedded Systems	Mr.A.R.Nigavekar
6		Cryptography	Mr.V.V.Patil
7		Signal Processing	Mr.A.L.Renke

SR NO	Department	Prioritized research areas	Expert faculty available
8		Signal Processing	Mr.S.S.Nagtilak
1		Pavement Materials; Traffic Management system.	Dr. V. V. Karjinni
2		Fluid Mechanics	Dr. M. M. Mujumdar
3		Structural Engineering	S. G. Dige S. V. Lipare
4	Civil Department	Concrete Technology	K. G. Hiraskar
5		Water Management	V. A. Swami
6		Surveying and GIS	S. S. Varur
7		Dynamics of Structures	M. A. Chavan
1		Bacopamonnera Nanoparticles	Dr. M. M. Pillai
2		Bio Sensors	Dr. Monika R. Sanandan
3	Biotechnology Engg Department	CLEAS	Mr. Sachin Talekar
4		Nano particles	Mr. V. P. Ghodke
5		Molecular Biology	Mr. Gudmalwar R. M. Dr. Anup Kulkarni
1		Geotechnology Engineering Environmental Sanitation	Prof. R.A.Nikam
2		Environmental Impact Assessment Environmental Legislation Green Building Quantity Surveying and Valuation	Prof. S.V.Kulkarni
3	Environment Department	Lake and River Conservation Sewage Treatment Advanced Wastewater Treatment Solid Waste Management	Prof. S.S.Shaha
4		Industrial Waste Management Industrial Health and Safety	Prof. Mrs. P.S.Saler
1		Business intelligence and Database	Dr. Preeti Patil
2		Grid Computing	G. V. Otari
3	Computer science Department	Networking and Programming	S. B. Patil
4		Data Bases	D. K. Jadhav
5.		Web technology and Automata Theory	M. S. Salunkhe
1		Networking, Adhoc network	Mr. A. S. Patil
2	Information Technology	Image processing and artificial neural network	Mrs. M.S. Kalas

SR NO	Department	Prioritized research areas	Expert faculty available
	Department		
1	Electronics and Telecommunication Department	Antenna	E.C.Patil, M.D.Sontakke
2		Embedded Systems	N.B.Sambre, V.B.Gundavade

- Faculty members have specialization in cited research areas. Some have been funded for their research work by Govt agencies while others by Industries.
- Institute invites industry experts, academicians and scientists for interaction with the faculty to offer specialized programs on search methodology and other related areas.
- Institute subscribes journals of IEEE, ASME and ASCE which cater the need of the research. Good reference books are 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?

- Institute arranges conferences, workshops and seminars for faculty and industrial paerticipants for which researchers, Scientists, industrial experts are invited to deliver key note addresses and as resource persons.

- Institute also organizes many State and National level Co curricular activities for students.

- Institute has been recognized as Remote centre by IIT- Bombay, Mumbai and IIT Kharagpur which gives opportunity to faculty to interact with researchers.

  KIT has a history of invitiing eminent research personalities to interact with faculty, students and industrial invitees to update their knowledge of technological developments.

  Details of some of the eminent personalities visited the campus and interact with teachers and students:

Sr No	Name of the researcher	Date	Details of Interaction
1	Prof. Eberhard GMELIN MAX-PLANK INSTITUTE Stuttgart, GERMANY	7th March 1993	Interaction with Faculties, Students and Management of the Institute

Sr No	Name of the researcher	Date	Details of Interaction
2.	Prof. A. Sridharan IISc, Bangalore	24th Oct 1999	Interaction with Faculties, Students and Management of the Institute
3.	Dr. V.K. Basalalli and Dr. H.N. Shivshankar, UVCE, Bangalore	24th Oct 1999	Interaction with Faculties, Students and Management of the Institute
4.	Dr. Kirit Parikh	8th Feb.2005	Interaction with Faculties, Students and Management of the Institute
5.	Prof. M. Adhikari Ex-Dean, Faculty of Management Studies University of Delhi	2nd March 2001	Interaction with Faculties, Students and Management of the Institute
6.	Dr. Anil Kakodkar Chairman, AEC	8th April 2001	Interaction with Faculties, Students and Management of the Institute
7.	Dr. Vijay Bhatkar Chairman ETH Research Lab. Pune	15th Sept. 2001 and 15th May 2003	Interaction with Faculties, Students and Management of the Institute
8.	Prof R. Bharadwaj Chairman, IERD , Bangalore	08th Feb. 2002	Interaction with Faculties, Students and Management of the Institute
9.	Prof. G Parthsarathy Center for Policy Research New Delhi	08th Feb. 2002	Interaction with Faculties, Students and Management of the Institute
10	K Kasturi Rangan President, ISRO , India	15th Feb. 2002	Interaction with Faculties, Students, and Management of the Institute
11	Prof. P. S. Zacharias Vice –Chancellor Goa University	05th Oct. 2002	Interaction with Faculties, Students and Management of the Institute
12	Dr. D. Balakrishnan Chairman, ISTE Kerla Section Consultant for Accreditation Trichur	24th Oct. 2002	Interaction with Faculties, Students and Management of the Institute
13	V. G. Gambhir Homi Bhaba center for science Education , TIFR Mumbai	28th Jan. 2003	Interaction with Faculties, Students and Management of the Institute
14.	Dr. S. N. Singh Tech. Director Internet Office Pune	07th April 2003	Interaction with Faculties, Students and Management of the Institute
15.	Dr. Prem Chand Pandey Director, National center for Ocean Research,Vasco-da-Gama, Goa	22nd April 2003	Interaction with Faculties, Students and Management of the Institute
16.	P. K. Rath GM (Learning Centre)	07th Jan. 2006	Interaction with Faculties, Students and Management of the Institute

Sr No	Name of the researcher	Date	Details of Interaction
17.	Prof V. P. Bapat IDC, IIT Bombay	07th Jan. 2006	Interaction with Faculties, Students and Management of the Institute
18.	Prof. N.B. Pasalkar Director, Technical Education, Maharashtra	07th Jan. 2006	Interaction with Faculties, Students and Management of the Institute
19.	N. P. Sardar SESA Goa Ltd. Panji, Goa	10th Jan. 2006	Interaction with Faculties, Students and Management of the Institute
20.	Avinash Dharmadhikari Channakya Mandal Pune	13th March 2006	Interaction with Faculties, Students and Management of the Institute
21.	Prof. K. Sudha Rao Vice chancellor Karnataka state open University, Mysore	29th Sept. 2006	Interaction with Faculties, Students and Management of the Institute
22.	Dr. Sanjiv Sansgiri	30th Sept 2006	Interaction with Faculties, Students and Management of the Institute
23.	Dr. M. M. Salunkhe Vice chancellor Shivaji University, Kolhapur	21st Feb 2007	Interaction with Faculties, Students and Management of the Institute
24.	Mr. R. R. Deshpande Vice President, Kirloskar Oil Engines Ltd. Pune .	21st Feb 2007	Interaction with Faculties, Students and Management of the Institute
25.	Richard Barbara Cayer Alliace, NE, USA	15th July 2007	Interaction with Faculties, Students and Management of the Institute
26.	Mr. Dnyaneshwar M. Mulay	19th Aug 2007	Interaction with Faculties, Students and Management of the Institute
27.	Mr. Anant Talavlikar CMD, Cummins India Ltd.	07th Sept 2007	Interaction with Faculties, Students and Management of the Institute
28.	Dr. S. K. Mahajan Joint Director, Technical Education, Maharashtra	07th Sept 2007	Interaction with Faculties, Students and Management of the Institute
29.	Dr. K Kamal Adviser, DSIR, Ministry of science and Technology, Govt. of India, New Delhi.	02rd Oct 2007	Interaction with Faculties, Students and Management of the Institute
30.	Padmashree Dr. Shivram Bhoje.Senior Scientist, Indira Gandhi Centre for Atomic Research, Kalpakkam, TamilNadu	03rd Oct 2007	Interaction with Faculties, Students and Management of the Institute

Sr No	Name of the researcher	Date	Details of Interaction
31.	Mr. C. B. Akki Sr. Consultant, Talent Transformation , WIPRO Technologies, Banagalore	09th May 2008	Interaction with Faculties, Students and Management of the Institute
32.	Prof K. G. Narayankhedkar Director, VJTI Mumbai	02 Oct 2008	Interaction with Faculties, Students and Management of the Institute
33.	Dr. H. P. Khincha Vice chancellor VTU, Belgaum	07th Oct 2008	Interaction with Faculties, Students and Management of the Institute
34.	Mr. S. C. Behar Chief Secretary, MP. Former Vice Chancellor	30th April 2009	Interaction with Faculties, Students and Management of the Institute
35.	Dr. Yashwantrao Thorat Ex. Chairman – NABARD, New Delhi.	15th Sept 2009	Interaction with Faculties, Students and Management of the Institute
36.	Vivek Sawant MD, MKCL, Pune	02 Oct 2009	Interaction with Faculties, Students and Management of the Institute
37.	Rose Anne Sands USA	15th Aug 2010	Interaction with Faculties, Students and Management of the Institute
38.	Dr. N.J. Pawar Vice Chancellor Shivaji University, Kolhapur	2nd Oct. 2010	Interaction with Faculties, Students and Management of the Institute
39.	Prof . Ranjit Singh Executive Secretary, ISTE, New Delhi		Interaction with Faculties, Students and Management of the Institute
40.	Prof. N.R. Shetty Former V.C., Bangalore University, Bangalore	29th July 2011	Interaction with Faculty
41.	Prof. Arun Nigvekar Former Chairman UGC, Founder Director, NAAC, Former Vice chancellor Pune University,	1st Oct. 2011	Interaction with Faculties, Students and Management of the Institute
42.	Prof. S. Sadagopan Director, IISc, Bangalore	6th Dec. 2011	Interaction with Faculties, Students and Management of the Institute
43.	Achut Godbole I.T. Professional	4th March 2012	Interaction with Faculties, Students and Management of the Institute
44.	Leena Mehandale Member CAT, Mumbai Bench	24th Feb. 2013	Interaction with Faculties, Students and Management of the Institute

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:

SN	Department	Faculty pursuing PG	Comple ted PG	Faculty pursuing Ph.D.	Faculty Completed Ph.D.
1	Mechanical	01	08	08	01
2.	Production	01	15	04	05
3.	Electronics	02	12	03	03
4.	Civil	02	14	08	01
5.	Environmental	03	08	03	01
6.	CSE	04	07	02	-
7.	IT	06	02	02	-
8.	Biotech	00	08	02	03
9.	E &TC	03	05	03	-
	Total	15	79	35	14

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

- Institute organizes project exhibition, research poster competition and invites the school students and common man.

- Institutes organize **research poster presentation** in villages

- Students use professional society platforms (IEEE, IETE, CSI, SAE, ISHRAE) to explore the technology development to society.

Initiatives taken by Institute:

SR NO	Name of the projects implemented in practice/Awareness Program	Details and Year of implementation
1	Waste Heat Recovery from Bulk Milk Cooler	Demonstration of waste heat recovery for heating water is shown to Milk Dairies, who have issued the letters for implementation. Year 2013-14
2.	Renewable Energy Engineering workshop is arranged	One day workshop on Renewable Energy Engineering is organized to bring awareness regarding Renewable energy and to motivate students to take up research based projects in Renewable energy engineering. Year 2013-14
3.	Renewable Energy	Small projects are built by third engineering students by

	Engineering Project Exhibition	using Renewable Energy sources and exhibited and best projects are awarded.
4.	Wi-Fi Enabled RC Spy Car Controlled By Laptop	Implemented by Hongekar Pankaj S. Kate Dhiraj S. , Valkunje Jayavant C. Under the guidance of Mrs. R. B.Pandhare in year 2013-2014

3.2 Resource Mobilization for Research

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

Details of amount spent on faculty publications and training is as below:

SR NO	Details of Expenditure	Year	Amount (Rs.)
1.	Faculty Publications and Training	2010-11	467185/-
2.	Faculty Publications and Training	2011-12	102656/-
3.	Faculty Publications and Training	2012-13	197197/-
Total Rs.			767038/-

For the enhancement of research, institute has provided very good library facility with good resources such as E-Journals, Print journals, Magazines and periodicals. These resources are extensively used by faculty members and students in their ressearch work.

Details of amount spent on the library resources are given below
Purchase of PG Reference Books:

SR NO	Year	PG Books (Existing 4 PG) (Rs.)	PG Indus Engg. Books(Rs.)	PG Env. Books(Rs.)	PG CSE Book(Rs.)s	TOTAL (Rs.)
1	2009-10	44644/-	-	-	46695/-	91339/-
2	2010-11	309193/-	-	-	70531/-	379724/-
3	2011-12	37798/-	-	-	-	37798/-
4	2012-13	317624/-	358295/-	37114/-	-	713033/-
Total Rs.						1221894

Expenditure Details for Print and E- journals are as below:

SR NO	Year	Expenditure on print Journals (R)	Expenditure on E- Journals (Rs)	Total (Rs)
1	2009-10	219967/-	460820/-	680787/-
2	2010-2011	341691/-	464860/-	806551/-
3	2011-2012	230283/-	1574635/-	1804918/-

4	2012-2013	264905/-	1749459/-	2014364/-
5	2013-2014	271491/-	742260/-	1013751/-
Total Rs.				**6320371/-**

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?**

- Institute provides the seed money for the research projects as per the need of the project. The seed money is given for faculty as well as students research projects.

- For the NABARD funded inovative project on Redesigning of Bulk Milk Cooler institute has sanctioned 10% amount as seed money for this project.

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

There is a separate financial provision made by the Institute for student's projects under student centric initiatives. There were many occasions where institute has provided financial support to the student in their research projects.

- Research projects in the area of "Performance Evaluation of I/C Engines using Bio-diesel" was sponsored by Institute. An MoU was signed with Indian Biodiesel Corporation Baramati who provided Biodiesel and provided test report of biodiesel provided by them. The research project was carried out by B.E Mechanical students year

- A part of research work of NABARD and Institute funded project on Bulk Milk Cooler (BMC) was allocated as research project to B.E Mechanical students.

- Institute also provides financial support for travelling and boarding to participate in the different events at state and national level computations.

- Students can use Institute infrastructure and resources after working hours for doing their projects.

- Institute organizes national level Technical event "PIONEER" and provides funds for prizes, certificates and other expenses. The activity was launched in the year 1998 at inter-university level and has been performed every year till today with gradual increase in the scope of the event. As on today, it is organized as a national level activity. Around Rs. 4,00,000/ - budget was earmarked in the January 2014.

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.

Considering expertise and facilities available, the research committee identifies the interdisciplinary areas of research. The HODs and concerned faculty regularly interact and find the interdisciplinary areas. The faculty of different department gets associated with the professional societies like IEEE, CSI, SAE and ISHRAE. The related events also trigger the interdisciplinary areas of research. The students of different disciplines undertake interdisciplinary projects. The EESA group of the Institute also encourages the interdisciplinary projects. Few interdisciplinary projects undertaken are - fruit quality identification, speech enhancement, remote sensing. The major challenges are identification of interdisciplinary research problem, and labs and defining scope of each area.

Students of Mechanical Engineering in association with students from Electronics Engineering department undertook a research / design / development and manufacturing based project on "All terrain vehicle". The vehicle participated in national level competition organized by *SAE India Chapter in Feb 2013 and won the FIRST PRIZE in Safe Vehicle category*- The project was funded by the Institute and local industries.

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

Institute prepares the documents detailing names of equipment, its specifications, its possible uses, location and related interface as well as Library resources. This detailing is carried out for all equipments. The document is circulated to staff and students, so that they can plan their research activities. The time tables of labs are also notified to all. If required additional slots are provides. The major projects are divided in module and team leader is appointed to coordinate the project.

Students are given free access to use all the central facilities and various labs across various Departments and Machine Shops during and beyond working hours .

Electronics department is having following research facilities:

SR NO	Name of the Equipment and research facilities available	Usage of the facility by its staff and students
1	Microwave test bench	To analyze the behavior of EM field, to study the characteristics of reflex klystron and Gunn diode
2	Spectrum analyzer	To measure the frequency spectrum of transmitted and received signals

3	Digital storage oscilloscope	To analyze the input signal, to measure various parameters of the signal
4	MATLAB(Modeling & Simulation tool)	To analyze and simulate the various models.
5	Commsim (Simulation tool)	
6	ORCAD (Simulation tool)	
7	FPGA Advantage (Simulation tool)	

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.**

Details of funds received by Mechanical Engineering Department:

SR NO	Title of the proposal under MODROBS, RPS, or any other agency	Funds Received andFunding agency	year of funding
1	Redesigning of Bulk Milk Cooler	Rs. 975000/- National Bank for Agricultural and Rural Development[NABARD]	**2009-2010**
2	Advanced sensor lab	Worth Rs. 1000000/- Donated by IFM Germany.	**2012-2013**
3.	Advanced I. C. Engine – 2 Nos	Worth Rs. 300000/- Donated by ARAI Pune	2011-2012
	Total	Rs. 2275000/-	

Details of funds received by Production Engineering Department:

SR NO	Title of the proposal under MODROBS, RPS, or any other agency	Funds Received andFunding agency	Year of funding
1	MODROBS Development of CAD/CAM/CAE Lab	Rs. 1500000/- AICTE New Delhi.	2006-07
2	MODROBS Development of CIM lab	Rs. 950000/- AICTE New Delhi.	2007-08
3.	MODROBS Modernization of Workshop	Rs. 1375000/- AICTE New Delhi.	2009-10
	Total	Rs.3825000/-	

Details of funds received by Electronics Engineering Department:

SR NO	Title of the proposal under RPS, MODROBS, or any other agency	Funds Received andFunding agency	Year of funding
1	**Consumer Rights festival 1**	**Rs. 100000/- Central Government of India**	**2005-06**

SR NO	Title of the proposal under RPS, MODROBS, or any other agency	Funds Received andFunding agency	Year of funding
2.	**MODROBS** **Industry relevant embedded laboratory**	**Rs. 1500000/-** **AICTE New Delhi.**	**2008-09**
3.	**MOROBS** **Modernistion of Process control & measurement Lab**	**Rs. 865000/-** **AICTE New Delhi.**	**2012-13**
	Total	Rs. 2465000/-	

Details of funds received by Civil Engineering Department:

SR NO	Title of the proposal under MODROBS, RPS, or any other agency	Funds Received andFunding agency	year of funding
1	MODROBS- Modernization of Surveying Laboratory	610000/- AICTE New Delhi.	1997-98
2	MODROBS -Modernization of Concrete Technology Laboratory	1476000/- AICTE New Delhi.	2007-2008
3.	MODROBS-Modernization of Material Testing Laboratory	1500000/- AICTE New Delhi.	2009-2010
4.	MODROBS-Modernization of Surveying Laboratory	1506000/- AICTE New Delhi.	2010-11
	Total	**Rs. 5092000/-**	

Details of funds received by Environmental Engineering Department:

SR NO	Title of the proposal under MODROBS, RPS, or any other agency	Funds Received andFunding agency	year of funding
1	MODROBS- Modernization of Sanitary Chemistry Lab	Rs. 700000/- AICTE New Delhi.	2008-09
2	Modernization of Air Pollution Lab.	Rs. 500000/- AICTE New Delhi.	2010-11
	Total	**Rs. 1200000/-**	

Details of funds received by Biotechnology Engineering Department:

SR NO	Title of the proposal under MODROBS or any other agency	Funds Received andFunding agency	Year of funding
1	Protection of stressed lymphocytes by	660000.00 AICTE	2009-2010

	flavonoids bacopin and withanaloids **(MODROB)**	New Delhi.	
2.	Insilico drug design against mycobacterium tuberculosis **(MODROB)**	1200000.00 AICTE New Delhi.	2010-2011
3.	Recent trends in biological sensors**(Seminar Grant)**	200000.00 AICTE New Delhi.	2013-2014
	Total	**Rs. 2060000/-**	

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.**

1. The details of support provided to faculty and students in securing research fund are as follows:

Nature of the Project	Duration Year From – To	Title of the project	Name of the funding agency	Total Grant		Total grant received till date
				Sanctioned	Received	
Minor projects						
Major projects	2009 to 2014	Innovative Design of Bulk Milk Cooler	NABARD, Pune. Under RIF scheme	9.75 Lakhs	6.5 Lakhs	6.5 Lakhs
Students' research projects	2012-2013	Design of all wheel steering system of four wheeler	Institute	3000/-	3000/-	3000/-
	2013-2014	MONO WHEEL BIKE	Marvellous Engineers Ltd. Kolhapur	20,000/-	20,000/	20,000/-
			Total	9,98,000/-		

2. Details of funds receieved under RPS at institute level :

SR NO	Title of the proposal under RPS, or any other agency	Funds Received andFunding agency	year of funding
1	Antibody based piesioelectric biosensor for detection of Hepatitis-B**(RPS)**	500000.00 AICTE New Delhi.	2010-2011
2	**RPS-**Radio over fiber for 3G cellular systems	Rs. 760000/- AICTE New Delhi.	**2006-2007**
	Total	**Rs. 1260000/-**	

3.3 Research Facilities

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

- Wi Fi Campus

- Computing center and labs of the Institute are made available beyond working hours

- Institute has established research labs which are availed by the faculty and students.

- Each Department has project lab for students

- Institute has well stocked library and digital library. The library has more than 200 video lectures under NPTEL prepared by various IITs. Institute subscribes National and International journals.

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

- The institute has budget allocation for R and D initiatives and provides required funds to upgrade and create infrastructural facilities required for research.

- Institute initiates research programs and deputes faculty for such programs. Such facilities are also made available for students at UG and PG levels.

- Institute has introduced the "BEST RESEARCH PROJECT" scheme for U.G. students. Under this scheme the innovative projects are selected for different streams of Engineering after evaluation by the committee.

- PG students are encouraged to undertake industry based problems for their dissertation work under the guidance of expert faculty.

- Faculty undertakes industrial consultancy and research assignments involoving research work.

    The following Gantt chart shows institutional Strategic Plan for R and D initiatives and availing grants and technical support from various agencies to explore research avenues.

Institutional Strategic Plan for R and D Initiatives

Research and Development	2015	2016	2017	2018
Proposals for MODROBS, RPS, CAYT, VF, SG, TG, FDP, STTP, ELCTE				
Exploring MoEF, MoWCD, DST, CSIR, UGC, CIDC, AICTE, RUSA for RCE				
MoUs with industry for MDP/Internship				
Consultancy/Extension Services activities				
Establishing Centers of Excellence in niche areas				

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

Details of funds received by Institute:

Sr No	Title of the proposal under MODROBS, RPS, or any other agency	Funds Received andFunding agency	year of funding
1	Redesigning of Bulk Milk Cooler	Rs. 9,75,000/- National Bank for Agricultural and Rural Development[NABARD]	2009-2010
2	Advanced sensor lab	Worth Rs. 10,00,000/- Donated by IFM Germany.	2012-2013
3.	Advanced I. C. Engine – 2 Nos	Worth Rs. 300000/- Donated by ARAI Pune	2011-2012
	Total	**Rs. 2275000/-**	

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

Institute encourages students and research scholars to visit different lab for research purpose by providing leaves and other facilities. Prominent labs visited are those at NCL Pune, IIT Bombay, CFC of Shivaji University FIE Ichalkaranji.

- Institute arranges industrial visits for student.
- Institute deputes faculty for Ph.D. at IIT's and other renowned institutes.
- Institute sponsors students for participating in technical competitions, exhibitions.

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

Institute has Central as well as departmental libraries. These are available to researchers.

- Library has good references and National and International journals
- Institute has membership of IEEE, ASME, CMTI etc.
- Institute library provides free access to e-jounals of science direct and IEEE research publications to the students.
- Institute has membership of I.I.T. Bombay library through which students and faculty can access resources of I.I.T. Bombay library.

Resources available with the library are as below:

No of Reference Books available for PG:

Sr.No	Year	PG Books (Existing 4 PG)	PG Indus Engg. Books	PG Env. Books	PG CSE Books	TOTAL
1	2009-10	90	-	-	142	232
2	2010-11	268	-	-	166	434
3	2011-12	104	-	5	-	109
4	2012-13	346	162	83	-	591

No of Print journals/periodicals/magazines/e-journals available:

Sr.No	Year	No of print Journals	No of International Journals(Print)	Magazines	Total No of Periodicals	No of E-Journals
1	2009-10	84	25	20	129	273
2	2010-11	89	27	16	132	273
3	2011-12	74	26	16	116	706
4	2012-13	63	33	27	123	706
5	2013-14	58	35	30	123	345

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

- Institute has been recognized by IIT Bombay, Mumbai as a Remote Center for NMEICT.

- Institute has collaboration with industries: KPIT Technologies Pune. The value additional training program is developed by KPIT Technologies and KIT. It is implemented for electronics students and it creates placement for the students in KPIT Technologies.

- Institute has entered into a MoU with Zensar Technology, Pune, a leading company from the IT sector.

3.4   Research Publications and Awards

3.4.1   Highlight the major research achievements of the staff and students in terms of Patents obtained and filed (process and product).Original research contributing to product improvement

Research studies or surveys benefiting the community or improving the services. Research inputs contributing to new initiatives and social development

- **Major research achievements of the staff and students of Biotech Engineering Department:**

Sr. No	Details of Research achievements of the staff and students	Year
1.	Dr. Monica Sanandam **Patent**: Designing of novel optical biosensor for detection of organophorous pesticide.(2713/MUM/2012)	2012
2.	Dr. Monica Sanandam **Patent**: Antibody based piezoelectric Biosensor for detection of Hepatitis-B. (613/MUM/2013)	2013
3.	Dr. Monica Sanandam **Patent**: Novel biological nanos (38/mum/2014)	2014
4.	Dr. Monica Sanandam: POST-DOCTORAL STUDENT GUIDED:1 Dr. Petra Obioma Nnamani, University of Nigeria, Nigeria Joined under C V Raman International Fellowship for African researchers jointly with Prof C. D. Lokhande, coordinator, International cooperation cell, Shivaji University Kolhapur. 2012 (3months, March to June 2012)	2012
5.	Dr. Monica Sanandam:MAJOR PROJECT: Antibody based piezoelectric biosensor for hepatitis-B Research Promotion Scheme-AICTE, Govt. of India New Delhi.(5 Lakhs)	2010-2012
6.	Dr. Monica Sanandam: SEMINAR GRANT: Recent trends in biological sensors. -AICTE, New Delhi and Biosensor Society of India. (2 Lakhs)	2013-14
7.	Ms. Rucha Joshi: **Patent**: Low calorie biscuits from banana peel pulp	
8.	Dr. Monica R. Sanandam:1st prize Best speaker presentation award International conference Biofest – organized by Spinger, USA. At Leonia International convention centre Dec.2012	2012
9.	Dr. Anup Kulkarni: 2nd prize, International conference on stem cells, caner and apoptosis, organized by ICSCCB,at Haffkines Institute, Mumbai 19-22 Oct 2013	2013

Major research achievements of students of Biotechnology Engineering Department:

Students achievements	University/state	National
2010-11	2	51
2011-12	-	3
2012-13	5	9
2013-14	11	8

Major research achievements of the staff and students of Production Engineering Department:

Sr. No	Details of Research achievements of the staff and students	Year
1	A Critical Evaluation of Quality Management System Certifications in selected Engineering Industries in Kolhapur District. By Dr. J.S.Bagi	2013
2	Hard Turning of Material- A step towards manufacturing sustainability – By Prof. P.P.Powar	Ongoing
3	Optimization of Batch Production Scheduling- By Prof. S.G.Bhatwadekar	Ongoing
4	Computer Aided Fixture Design- By Dr. V.V.Kulkarni	2012
5	Nanocomposites - By Prof. P.R.Kubade	Ongoing

Major research achievements of the staff and students of Electronics Engineering Department:

Sr. No	Details of Research achievements of the staff and students	Year
1	A R Nigavekar: RADIO OVER FIBRE FOR 3G Cellular System(Project under RPS Scheme – A.I.C.T.E. Academic Year 2006-07)	2006-07

Major research achievements of students of Electronics and Telecommunication Department:

- Google Ambassador Award for western India region in 2013-14.
- 2nd prize in international paper presentation in the year 2012-13.
- MICROSOFT STUDENT PARTNER in the year 2013-14

Year	Activity	National	
		1st prize	2nd prize
2010-11	Paper presentation	01	02
	Technical events	08	-
2011-12	Paper presentation	03	03
	Technical events	07	12
2012-13	Paper presentation	05	04
	Technical events	-	-
2013-14	Paper presentation	1	
	Technical events		

SN	Name of student	Award
1.	Shaikh Mahamadzuber Shabbir	Research of the year 2013-14
2.	Malajure Sachin Krishnat	Research of the year 2013-14
3.	Chaughule Ateen Ajay	Best sports person of the year 2013-14
4.	Solankurkar Neha Girish	KIT Pride award 2013-14
5.	Jagtap Siddhi	KIT Pride award 2013-14

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?**

The institute is planning to start an inter-disciplinary journal.

3.4.3 **Give details of publications by the faculty and students:**

Publication per faculty

Number of papers published by faculty and students in peer reviewed journals (national/international)

BOOKS PUBLISHED: Prof. V.V. Karjinni

a. Editor of Proceedings of *National Conference on Urban Transport and the Environment*, Vikas Publishing House Pvt. Ltd., New Delhi (2003), ISBN: 81-259-1524-9.

b. Editor of Proceedings of *National Conference on New Paradigms in Business Management*, Himalaya Publishing House Pvt. Ltd., Mumbai (2013), ISBN: 978-93-5097-431-5.

c. Editor of Proceedings of *National Conference on Recent Practices in Conventional and Non-Conventional Energy Resources*, Himalaya Publishing House Pvt. Ltd., Mumbai (2013), ISBN: 978-93-5097-485-8.

REVIEWER OF JOURNALS
Prof. V.V. Karjinni:

1. Reviewer of Indian Roads Congress Publications, New Delhi (**ISSN**: 0376-7256).

2. Reviewer of The Indian Concrete Journal, Mumbai (**ISSN**: 0019-4565).

Dr. Monica Sanandam:

1. Reviewer of International Journal of Environmental research ,Elsevier publication, impact factor 3.58 (**ISSN**: 0013-9351).

Mrs. Mamata Kalas:

1. Reviwer for CSCITA 2014, St. Francis Institute of Technology
2. Editorial board member of bio info publications.
3. Editorial board member of CSC Journals.

Mr. Gudmalwar R.M.:

1. Reviewer of International Journal of Advanced Biotechnology and Research (**ISSN**: 0976-2612).

Mr. Sachin Talekar:

1. Reviewer of ACS applied materials and Interfaces, American Chemical Society Publication (Impact Factor: 5.08)

2. Reviewer of Process Biochemistry, Elsevier publication (Impact Factor: 2.98)

3. Reviewer of Journal of molecular catalysis B: Enzymatic, Elsevier publication (Impact Factor: 2.82)

4. Reviewer of Catalysis Communications, Elsevier publication (Impact Factor: 3.32)

5. Reviewer of International journal of Biological Macromolecules, Elsevier publication (Impact Factor: 2.67)

6. Reviewer of PLOs ONE, Public Library of Science publication (Impact Factor: 3.73)

7. Reviewer of Chemical Papers, Springer Publication (Impact Factor: 1.8)

8. Reviewer of International Journal of Chemical Reactor engineering, Springer Publication (Impact Factor: 1.7)

9. Reviewer of African Journal of Biotechnology, Academic Journals (Impact Factor: 0.6)

10. Reviewer of World Applied Sciences Journal, IDOSI Publication.

11. Reviewer of International Research Journal of Microbiology.

12. Reviewer of Philippines Agricultural Scientist Journal.

RESEARCH PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:

1. **Otari, G.V.**, Kulkarni, R.V., 2012. A review of application of data mining in earthquake prediction. The International Journal of Computing Science and Information Technology, ISBN: 0975-9646.

2. **Otari, G.V.**, Ghorpade, V.R., 2013. Security in Mobile Grid Systems: A Review. International Journal of Networking and Communication Engineering.

3. **Bhatwadekar, S.G.**, Khire, M.Y., 2010. Statistical Verification of Performance of Genetic Algorithm in Scheduling. International Journal of Engineering Science and Technology, 2, 7087-7092.

4. Dandage, R.V., **Bhatwadekar, S.G.**, Bhagwat, M.M., 2012. Design, development and testing of a four component milling tool dynamometer. International Journal of Applied Engineering and Technology, ISSR NO:2277-212X (Online)

5. Surekar, S.H., **Bhatwadekar, S.G.**, Kharche, W.G., Bilgi, D.S., 2012. Determination of principal component affecting material removal rate in electrochemical machining process. International Journal of Engineering science and Technology,4, ISSR NO:0975-5462

6. **Bhatwadekar, S.G.**, Khire, M.Y., 2012. Job shop scheduling with genetic algorithm. Industrial Engineering Journal, 5, 40-42.

7. Joshi, R., **Naik, G.R.**, 2012. Reduction in setup time by SMED-A Literature Review. International Journal of Modern Engineering Research, 2, JMER:ISSN:2249-6645

8. **Kadane, S.M.**, Bhatwadekar, S.G., 2011. Manufacturing Facility Layout Design and Optimization Using Simulation. International Journal of Advanced Manufacturing Systems, 2, 59-65.

9. **Khanzode, V.V.**, Maiti, J., Ray, P., 2012. Occupational injury and accident research: a comprehensive review. Safety Science, 50(5), 1355-1367.

10. **Khanzode, V.V.**, Maiti, J., Ray, P., 2011. A Methodology for Evaluation and Monitoring of Recurring Hazards in Underground Coalmines. Safety Science, 49, 1172-1179.

11. **Khanzode, V.V.**, Maiti, J., Ray, P., 2011. Injury count model: Quantification of Risk of Occupational Injury in Industrial Work systems. International Journal for Injury Control and Safety Promotion, 18(2), 151-162.

12. **Khanzode, V.V.**, Maiti, J., Ray, P., Tewari, V., 2010. Injury severity assessment for underground coalmine workers. Applied Ergonomics,41, 242-250.

13. **Kulkarni, V.V.**, Khire, M.Y., 2009. Case Representation in the Domain of Adjustable Fixture Design System using Case-Based

Reasoning. International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, January, pp 1-6.

14. **Kulkarni, V.V.**, Khire, M.Y., 2009. Adjustable Fixture Design for Part Family-A Case Study" Manufacturing Technology and Management, Quarterly Journal of Indian Institution of Production Engineers, 3(1), 98-102.

15. **Kulkarni, V.V.**, Khire, M.Y., 2009. Computer Aided Group Technology Classification and Coding System for Adjustable Fixture Design. Manufacturing Technology & Research: An International Journal, 5(3-4), pp:

16. Koli, G.C., **Kulkarni, V.V.**, 2011. Simulation of Sloshing Phenomena using ALE approach. Journal of Mechanics engineering and automation, 53-60.

17. Patil, S.M., **Pise, S.M.**, 2013. Modal and Stress Analysis of Differential Gearbox Casing with Optimization. International Journal of Engineering Research and Applications, 3(6), 188-193.

18. Sapali, S.N., **Pise, S.M.**, Pise, A.T., Ghewade, D.V., 2014. Investigations of waste heat recovery from bulk milk cooler. Case studies in thermal engineering, Accepted.

19. **Patil, Y.M.,** 2013. Comparative Analysis of Fragement based and Exeplar based Inpainting Techniques. International journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, 2 (3), ISSN (Print) 2320-3765.

20. **Patil, Y.M.,** and R.H. Chile, 2011. Cooperative Diversity and Partner Selection Techniques in Wireless Networks. International Journal of Computer Science and Communicaion, 2 (2), ISSN 0973-7391.

21. **Karjinni, V.V.,** Bhavikatti, M.A., 2012. Effect of Non-chloride Hardening Accelerator and Type of Curing on the Compressive Strength of Pavement Concrete, Produced with Slag Cement. Zenith International Journal of Multidisciplinary Research, 2(3), ISSN: 2231-5780.

22. **Karjinni, V.V.,** Bhavikatti, M.A., 2012. Effect of Non-chloride Hardening Accelerator on the Compressive and Flexural Strengths at Early and Later age of Pavement Concrete produced with Pozzolana Cement. International Journal Natural and Engineering Sciences, 6(2), 59-63.

23. Bhavikatti, M.A., **Karjinni, V.V.,** 2012. Effect of Method of Curing on the Compressive Strength of Pavement Concrete produced with

Blended Cement and Hardening Accelerator. Elixir Advanced Engineering Informatics, 45, 7733-7737.

24. Bhavikatti, M.A., **Karjinni, V.V.,** 2012. Interaction of non-Chloride Hardening Accelerator with Type of Cement and Method of Curing in the Strength Development of Pavement Concrete. International Journal of Modern Engineering Research, 2(3), 1244-1252.

25. Bhavikatti, M.A., **Karjinni, V.V.,** 2012. Combined Effect of Hardening Accelerator and Method of Curing in the Strength Development of Pavement Concrete. International Journal of Civil and Structural Engineering, 2(4), 1060-1069.

26. Raikar, R.V., **Karjinni, V.V.,**Gundakalle, V.D., 2012. Study on Strength Parameters of Steel Fiber Reinforced High Strength Concrete. International Journal of Applied Sciences and Engineering Research, 1(4), 612-622.

27. **Swami, V.A.**, 2011. Watershed Management- A Means of Sustainable Development- A Case Study. International Journal of Engineering Science and Technology, 3(3), 2105-2112.

28. **Thorvat, A.R.**, Mujumdar, M.M., 2011. Design flood estimation for upper Krishna basin through RFFA. International Journal of Engineering Science and Technology, 3 (6), 5252-5259.

29. **Swami, V.A.**, Thorvat, A.R., Gune, M., 2011. Water and Soil Conservation through Simple Techniques- A Case Study. International Journal of Engineering Science and Technology, 3(8), 6305-6309.

30. **Sawant, A.B.**, Hiraskar, K.G., Sadolikar, H.V., 2012. Experimental Study on Partial Replacement of Cement by Neutralized Red Mud in Concrete. International Journal of Engineering Science and Advanced Technology, 2 (1), 282-286**.**

31. **Swami, V.A.**, Borchate, S.S., Sawant, A.B., 2011.Watershed Management through Social Mapping- A Means of Community Participation. International Journal of Engineering Science and Technology, 3(9), 6883-6888.

32. **Sawant, A.B.**, Swami, V.A., 2011. Utilization of Industrial Waste (Neutralized Red Mud) in Concrete. International Journal of Advances in Science and Technology, 3(3),9-13.

33. **Thorvat, A.R.,**Mujumdar, M.M., 2011. Development of Regression Model for the Panchaganga River Water Quality in Kolhapur City, M.S. International Journal of Engineering Research and Applications, 1(4),1723-1730.

34. **Swami, V.A.**, 2012. Village Development in India by Watershed Development Programs. Global Journal of Applied Sciences Rising Research Journal Publication, India, 2 (1), 26-30.

35. **Swami, V.A.**, 2012. Swat Hydrological Model for Watershed Management. GlobalJournal of Engineering and applied Sciences, 2(1), 16-20.

36. **Waskar, V.G.**, 2012. Common Effluent Treatment Plant for Thane Belapur Maharashtra Industrial Development Cooperation- A Case Study, International Journal of Emerging Technologies in Sciences and Engineering, 5(3), 12-17.

37. **Narvekar, P.,** 2012. Prediction of 28 Days Compressive Strength of Cement using Dimensional Analysis" Recent Advancements in Engineering, 2, 4-6.

38. **Swami, V.A.**, 2012. Use of plastic waste in bituminous road construction. Global Journal of Applied Sciences Rising Research Journal Publication, India, 4(5), 2351-2355.

39. **Waskar, V.G.**, 2012. Review on Process, Application and Performance of Rotating Biological Contactor (RBC). International Journal of Scientific and Research Publications, 2(7), 1-6.

40. **Thorvat, A.R.**, Mujumdar, M.M., Swami, V.A., 2012. Study on the Physico-chemical Characteristics of Panchaganga River in Kolhapur City, M.S., INDIA. Research Journal of Chemical Sciences, 1-5.

41. **Sawant, A.B.**, 2012. Experimental Study on Partial Replacement of Cement by Neutralized Red Mud in Concrete. International Journal of Engineering and Advanced Technology, 2(1), 282-286.

42. **Sawant, A.B.**, 2012. Sawant, S. G., Construction Techniques of Retrofitting for R.C.C. Members Using Different Glass Fiber. International Journal of Engineering and Advanced Technology, 2(2), 294-301.

43. **Sawant, A.B.**, Sawant, S.G., 2013. Strengthening of R.C.C. beam using different Glass Fibers. International Journal of Inventive Engineering and Sciences, 1(2), 1-8.

44. **Sawant, S.G.**, Sawant, A.B., 2013.Utilization of Neutralized Red Mud (Industrial waste) in concrete. International Journal of Inventive Engineering and Sciences, 1(2), 9-13.

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Summary of faculty publications of BioTech Department:

Sr. No	name of the faculty	JOURNAL		2011-12 (No.of Paper presented/ published)		2012-13 (No.of Paper presented/ published)		2013-14 (No.of Paper presented/ published)	
		National	International	National	International	National	International	National	International
1	Dr. M.M. Pillai	3	5		2		1	0	2
2	Mrs. P.T. Kininge								
3	Mr. R.M. Gudmalwar	0	3				1		1
4	Mrs. M.B. Petkar							1	1
5	Mr. A. S. Chavan	2	4	2					
6	Dr. (Mrs.)M.R. Sanandam	1	3	1	4	2	6	3	7
7	Ms. A.A. Kulkarni				1		2	1	2
8	Mr. V.P. Ghodake		3		2				
9	Mrs. S.P.Dabeer	1	2		1			1	

Sr.No	name of the faculty	JOURNAL		2011-12 (No.of Paper presented/ published)		2012-13 (No.of Paper presented/ published)		2013-14 (No.of Paper presented/ published)	
		National	International	National	International	National	International	National	International
11	Mr. S.B. Talekar		1		1		6		4
12.	Mr. B.S. Nainegali	2		1				1	1
13	Dr.AnupKulkarni		1						1

Summary of faculty publications of Computer Science Department :

Sr. No.	Name of the Staff	Number of Publications	International Journal/ Conferences	National Journal/ Conferences
1	Dr. Preeti S. Patil	63	20	43
2	Mr. Mahesh S. Salunkhe	1	1	-
3	Mr. Grantej V. Otari	04	03	01
4	Mrs. Deepali K. Jadhav	4	2	2
5	Mrs. Ranjeeta B. Pandhare	2	2	-
6	Mrs. Archana S. Sawant	01	01	-
7	Mr. Sameer B. Patil	03	03	-
8	Mr. Navin S. Mahajan	1	-	1
9	Mrs. Shivani. S. Kale	8	3	5
10	Mrs. Yogita S. Narule	2	-	2
11	Mr. Deepak D. Mahajan	02	1	1
12	Mrs. Archana V. Gundavade	2	2	0
13	Mrs. Manali Patil	2	2	-

Summary of faculty publications of ELECTRONICS and TELECOMMUNICATION Department :

Sr. No	name of the faculty	2010-11 (No.of Paper presented/ published)	2011-12 (No.of Paper presented/ published)	2012-13 (No.of Paper presented /published)	2013-14 (No.of Paper presented/ published)

		National	International	National	International	National	International	National	International
1	N. B. Sambre	3		3	1	4	2	1	
2	U. F. Kale	1					1		4
3	S. S. Bhoite							1	
4.	P.D.Sawant					1	1		
5.	A.A.Shinde					1			

Summary of faculty publications of Electronics Department :

Sr. No.	Name of Faculty	No. of Books	Books		Citation Index/Impact factor/h-index if any
			Published	Edited	
1	Dr. A S Vaingankar	01	01		------
2	Y M Patil	01	01		-------
3	V K Desai	01	01		--------

Summary of faculty publications of Mechanical Department:

Sr. No	Name of the faculty	2010-11 Conference		2011-12 Conference		2012-13 Conference		2013-14 Conference	
		National	International	National	International	National	International	National	International
1	PROF.S.S.MANE	1			1				
2	PROF.S.M.PISE						1		1
3	PROF. U. S. BHAPKAR						1		
4	PROF.S.S.SHINDE								1
5	MR. J.S.BHAT	1			1				
6	MR. R.C.BHEDASGAONKAR		1	1					
7	MR. S.S.JAMDADE				1				

Summary of faculty publications of Production Department :

SN	Name of Faculty	National Conf.	International Conf.	National Journal	International Journal
1.	S.G.Bhatwadekar	12	11	2	9
2.	G.R.Naik	5	1	1	1
3.	Dr.J.S.Bagi	6	4	4	13
4.	A.K.Madhale	1	1		
5.	P.P.Powar	7	2		
6.	S.M.Kadane	4	1		1
7.	S.B.Sangale	1			
8.	S.J.Shah	1			
9.	R.S.Patil	1			
10.	Dr.V.V.Kulkarni	9	1		8
11.	Dr. V.V.Khanzode	12	6		5

3.4.4 Provide details (if any) of Research awards received by the faculty

SR NO	Faculty Name	Details of faculty Achievements	Year
1.	**Dr. Monica R. Sanandam:**	**Best Paper Presentation Award** At National Seminar On Frontiers In Biotechnology, Organized By Birla Institute, Kalyan, Mumbai University and Reliance Industries Mumbai	2001
2.	Dr. Monica R. Sanandam	Best speaker presentation award international conference biofest	2012
3.	**Dr. Anup Kulkarni:**	**2nd prize, International conference on stem cells, cancer and apoptosis,**	2013
4.	Dr. Monica R. Sanandam	**FIE – FOUNDATION NATIONAL AWARD –** , for Substantial Contribution in the field of Sports and Educational Achievements.	2001
5.	Dr. Monica R. Sanandam	**PRESIDENT OF INDIA GOLD MEDAL"**	2001
6.	S. M. Pise	Awarded as a best Technical paper on Resource Optimization Through Low Cost Automation – A Case Study at International Conference PICA- 2006 organized by Priyadarshani Institute of Engg. Nagpur	Year 2006
7.	S. M. Pise and N. V. Pujari	Awarded as a best Technical paper on Just in time , A case study at National Conference CAGQ-2004, organized by Thigarajar Institute of Engg. Madurai	Year 2004
8.	U. S. Bhapkar	Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally Mr. U. S. Bhapkar has received TRAVEL GRANT from ICHMT (International Centre for Heat And Mass Transfer, which is reputed R and D organization in Europe) for attending International	24-27 September , 2012

		Symposium on " Turbulence, Heat and Mass Transfer" during September, 24-27, 2012 at Palemo, Sicily, Italy.	
9.	S. S. Kale	First Prize in International Conference on "Add-on utility to make google docs more secure" at ICETE at J. J. Magdum Institute of Engineering, Jaysingpur	22-23 Feb. 2013

3.5   Consultancy

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

Institute has a strong liaison with the Industry. An Institute – Industry interaction cell is established. It meets regularly to enhance the industry participation in the academics. Following are the areas of Interaction with Industry.

- Industry experts are involved in curriculum development.

- They are also invited as resource persons and evaluators for faculty and students programs.

- Engineers from industry are appointed as Examiners for University Practical/Oral. They visit Institute for conduction of examination.

- Institute plans visits of faculty and students to industry and interact.

- Faculty and Students are involved in industry sponsored projects.

- Institute organizes visits of students to industrial exhibitions like Auto Expo.

Objective of Industry Interaction Cell:

- Keep liaising with R & D organization and industry for knowledge sharing.
- To bridge gap between institute and industry.

- Faculty exchange with industry
- To arrange expert lecturers of eminent personalities.
- To enhance inherent skill of faculty by arranging visits to industry.
- To develop the skill to make the student place able.
- Knowledge sharing.
- To get acquainted with practical or real word problems.
- To get acquainted with industry requirement, process, managerial skill.
- To take review of curriculum and suggest the industrial supplementary contact as per need of industry and state of art.

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

The Institute has policy of sharing its labs, information resources and faculty expertise for the benefit of society and industries. The Institute provides the information of the same to the all concerned. Institute has Industry Institute Cell which also assists to advocate and publicize the expertise available with the Institute. The faculty visits the organizations and finds out probable domains of consultancy. Institute encourages the faculty and non teaching staff to develop the in house experimental set ups. It supports the staff to give the consultancy for the same.

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

The research committee of the Institute and Heads of Departments first idntify the area expertise of the faculty. If required, Institute deputes the staff for skill development programs. Institute organizes the programs on product development, design and research methodology which encourage the staff for consultancy. Institute provides facilities and seed money to carry out the consultancy. Institute deputes the staff for industrial training where they can find the potential for consultancy.

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

A]   Details of consultancy services provided by the Environment Dept:

Year	Name of the Project	Type of consultancy	Funding Agency	Amount Received (Rs.)
2002-03	Computation of pollution load expansion	Intellectual Consultancy Work	Gharda Chemicals, Lote Parashram Chiplun	30000 /-
	Calculation of pollution load expansion	Intelectual Consultancy Work	Gharda Chemicals, Lote, Dombiwali	30000 /-

Year	Name of the Project	Type of consultancy	Funding Agency	Amount Received (Rs.)
2003-04	Preparing Env. Site appraisal reports for various building schemes in Mumbai, Thane required for obtaining Env. Clearance of the project	Site appraisal report	Patil Builders, Mumbai	300000 /-
2005-06	Sampling of Wastewater & air	Laboratory Analysis	Bharat Dairy, DSK Toyato	5000 /- 10000 /-
2005-06	Pollution Prevention and Conservation of Rankala Lake at Kolhapur, Maharashtra	Preparation of DPR	Kolhapur Municipal Corporation, Kolhapur	2200000/-
2006-07	Preparation of DPR for Conservation and Revival of Mansi Ganga Lake at Govardhan, Mathura, Uttar Pradesh (Sanctioned cost Rs. 22.59 crores)	Preparation of DPR	U P Jal Nigam, Uttar Pradesh	400000 /-
2008-09	Pollution Prevention and Conservation of Laxmi Lake at Jhansi, Uttar Pradesh	Preparation of DPR	U. P. Jal Nigam, Uttar Pradesh	1600000/-
2010-11	Pollution Prevention and Conservation of Ramgarh Lake at Gorakhpur, Uttar Pradesh	Preparation of DPR	U. P. Jal Nigam, Uttar Pradesh	400000 /-
		Expert Advisory Consultancy for execution of project	U. P. Jal Nigam, Uttar Pradesh	300000 /-
	Pollution Prevention and Conservation of Laxmi Lake at Jhansi, Uttar Pradesh	Preparation of DPR	U. P. Jal Nigam, Uttar Pradesh	1350000 /-

Year	Name of the Project	Type of consultancy	Funding Agency	Amount Received (Rs.)
2011-12	Pollution Prevention and Conservation of Ramgarh Lake at Gorakhpur, Uttar Pradesh	Expert Advisory Consultancy for execution of project	U. P. Jal Nigam, Uttar Pradesh	400000 /-
	CSP of Kolhapur	Preparation of detailed city sanitation plan of Kolhapur	Kolhapur Municipal Corporation, Kolhapur	400000 /-
2011-12	Industrial Service	Wastewater Analysis	Mehta Dairies Unity Consultants Pvt. Ltd. Patki Joshi Engg. Isha Rajurikar Toyota Kirloskar Motors	32880 /-
2012-13	Pollution Prevention and Conservation of Ramgarh Lake at Gorakhpur, Uttar Pradesh	Expert Advisory Consultancy for execution of project	U. P. Jal Nigam, Uttar Pradesh	1466700/-
2012-13	Industrial Service	Wastewater Analysis	Mehta Dairies Gokul Shirgaon & ATE Envirotech Pvt. Ltd.	4130 /-
2013-14	Pollution Prevention and Conservation of Ramgarh Lake at Gorakhpur, Uttar Pradesh	Expert Advisory Consultancy for execution of project	U. P. Jal Nigam, Uttar Pradesh	700000 /-
	Industrial Service	Wastewater Analysis	Mehta Dairies Gokul Shirgaon	5680 /-
			Total	**9634390 /-**

B] Details of consultancy services provided by the Civil Engineering Dept:

Year	Name of the Project	Type of consultancy	Funding Agency	Amount Received (Rs)
2010-11	Infrastructure Development	Designing and Testing	Various organizations	424625/-
2011-12	Infrastructure	Designing and	Various	338005/-

	Development	Testing	organizations	
2012-13	Infrastructure Development	Designing and Testing	Various organizations	1062150/-
2013-14	Infrastructure Development	Designing and Testing	Various organizations	201150/-
			Totla Rs.	**2025930/-**
Environment Engineering Dept + Civil Engineering Dept: Total Rs.				**11660320/-**

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

Institute has Consultancy Policy in place for sharing of income generated through consultancy.

It is divided in three parts

1. Consultancy carried out by using Institute infrastructure and equipment (Institute 45%: Administration 10%: Staff 45%)

2. Knowledge based Consultancy (Institute 35%: Administration 5%: Staff 60%)

3. Equipment Service (Institute 45%: Administration 10%: Staff 45%)

3.6 **Institutional Social Responsibility (ISR) and Extension Activities**

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?**

- Institute involves the faculty and students in community network. This helps the students to learn ethical values and understand their responsibilities, and develp as good citizens, in service orientation and their holistic development.

- Social activities like blood donation camps, tree plantation, and RTO camps are organized by the students.

- Faculty members and students visit the social organizations and help them by donating the material as per need (Sewing Machine, blankets etc)

- Students regularly publish the articles in the newspaper which help to literate the common citizen of developments in technology.

- Institute implements the Earn and Learn Scheme of the University. This helps the student to understand the value of labor.

Institute has an active NSS cell through which different social activities are planned for each academic year.

The student community is being benifited by implementing government reservation schemes and offering good scholarships for both merit and economic basis. The major strength of the Institute is its ability to ensure holistic development of students to make them responsible citizens by teaching them the moral values. Institute provides quality based education to the students by inculcating moral values, scientific temper and employing state of art technologies. It aims to pursue excellence towards creating students with high degree of intellectual, professional and cultural development to meet the national and global challenges.

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

- Students submit certificates and attendance of participation in social activities to Institute.

- University also has its own mechanism to monitor NSS and Earn and Learn activities.

- Guardian Teachers collects information from the concerned students.

- Institute tracks the articles of students published in newspapers.

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

The stake holders are invited to visit the campus and various infrastructural facilities, interact with the members of faculty to obtain necessary information on the overall performance and quality of institution. Parent-Teachers meeting are regularly being conducted to know about academic performance and quality of their wards and to provide constructive suggestions to improve the overall performance and quality of their wards and quality of institution. Periodically performance reports are being sent to the stake holders through SMS, e-mails, web publication and also through hard copies.

- Institute Industry cell gives feedback and suggestions for performance improvement

- Alumni are invited to visit the Institute and participate in academic processes.

- Management and Local Mangement Commettee, faculty and supporting staff of the Institute interacts with all the stake holders and seeks their suggestions and contribution.

▪ Institute considers all stake holders feed back while planning the activities.

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

Institute carries out survey of the areas where the society and academic community need the extension and outreach programs. It also identifies the resource persons and faculty exercise. This helps to plan the programs. Institute has its own budget for the programs. Apart from this Institute applies for funding to University to carry out the programs. Institute invites the industry personnel and other interested persons to attend the programs.

Every year institute receives approximately Rs. 40000.00 funds for conducting NSS camp and related activities.

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

Details of NSS Programs Conducted during Academic Year 2010-2011:

SR. NO	Program Conducted	Date
1)	WHITE ARMY Nandwal RALLY	21st Aug. 2010
2)	Independence Day celebration and TREE PLANTATION	15th Aug.2010
3)	CLOTH DONATION CAMP'	27th Aug.2010
4)	'EYE CARE and EYE DONATION'	1st Sep.2010
5)	GANESH UTSAV	9th Sep. 2010
6)	GANESH VISARJAN	12th Sep. 2010
7)	A GUEST LECTURE ON "HOW TO OVERCOME EXAMINATION PHOBIA"	21st Sep.2010
8)	SOUND POLLUTION MESUREMENT IN RAJARAMPURI AREA	23rd Sep.2010
9)	NSS RESIDENTIAL CAMP Village – PANORE, Tal. Panhala.	3rd to 9th January 2011
10)	'INSSPIRO-2012'- Disaster Mgt. Training, Blood Donation, Poster presentation, Photo Competition, Cycle day	15th March 2011

NSS Programs Conducted during Academic Year 2011-2012

SR NO	Program Conducted	Date
1)	Tobacco Awareness Street play and August Kranti Din	9th Aug.2011
2)	Independence Day celebration	15th Aug.2011
3)	Ganesh Festival celebration and Environmental Pollution awareness.	28th Aug. to 2nd Sep.2011
4)	Passport Issuing Program	20th Sep. to 24th Sep. 2011
5)	Suggestions regarding Anticorruption	22nd to 28th 2011
6)	Blood Donation Program	22nd Sep. 2011
7)	NSS Residential Camp at Pendakhale , Tal.Shahuwadi.	5th Jan. To 11th Jan.2012
8)	Republic Day celebration and 'Matoshree Vriddhashram' Visit	26th Jan.2012
9)	PAN Card issuing program	3rd Feb. to 8th Feb.2012
10)	'INSSPIRO-2012'- Disaster Mgt. Training, Blood Donation, Poster presentation, Photo Competition,	20th March 2012

NSS Programs Conducted during Academic Year 2012-2013

SR NO	Day andDate	Program	Details	Participation
1	Thursday 15 Aug.12	Importance of Flag Hosting	• Create awareness among students regarding attendance on flag hosting program • Create 15 min. video show	750 students are present on flag hosting day.
2	Thursday 15 Aug.12	Wall Magazine Competition	• Interdepartmental Competition • Social, technical ,National Issue	7 Team from 7 Dept. 4 Judges
3	Wednesday 12 Sept.12	We Bharatiya	• Outside Maharashtra Student Get-Together	60 students + NSS Volunteers
4	18-20/09/12	Eco-friendly Ganesh Utsav	• Eco Friendly Idol of Ganesha, Procession with Tal and Clapping • 16 students participate in Lezim Show	9 Dept.and all teaching and non-teaching faculty

SR NO	Day andDate	Program	Details	Participation
5	Saturday, 12 Jan.13	Youth Rally	• 150Birth Anniversary of Swami Vivekananda Rajarampuri –Panjarpol - Udaym Nagar	134 Students Participate
6	Friday, 18 Jan.2013	Career for Engineers in Army	• Army Recruitment Office Kolhapur • Col.R.K.Kaushal speech	300 Boys and Girls
7	Saturday, 26 Jan.13	Full Attendance Day	• Create awareness among students regarding attendance on flag hosting program • Create 15 min. Video show	850 students are present on this day.
8	Saturday, 26 Jan.13	Interview with Creators	• Talk show with Dr.Prasad Devdhar on Rural Development	75 Students and 14 Faculty Members
9	13-19 Feb.13	Shram-Sanskar Shibir	• 7 Days Residential Camp At.Japhale Tal-Panhala	Boys-26 Girls-10
10	Thursday, 21 March 2013	Blood Donation Program	• Shahu Blood Bank	Donar-184

NSS Programs Conducted during Academic Year 2013-2014

SR NO	Day andDate	Program	Details	Participation
1	Saturday 04-08-13	Tree Plantation	70 groups do plantation	-
2	15-08-13	Full Attendance Day (FAD)	Create awareness among students regarding attendance on flag hosting program	Hon.Trustee Sunil Kulkarni
3	Saturday 07-09-13	Career In Army	General Awareness among students	Major Vikram Patil
4	Wednesday 02-10-13	Shramadan	Cleaning whole Mandir campus	Anna Jambhale
5	Saturday 12-10-13	Talk with Defence people	General Awareness among students	Sq.Leader Vinayak and Major Rachana Godbole
6	1 Sept- 31 Oct	Reform Nation	IIT Mumbai Competition	Pramod Jadhav,Dr.Mangala Badadare,

7	6-12 /01/14	Shramasanskar Shibir	Residential Camp @ Japhale	Jui Kulkarni, Mr.K.N.Patil
8	12-16 /02/14	New Voter Registration	Registration of New young Voter within Campus Premises	-
9	Saturday 15-02-14	Know your Navy	Indian Navy -ocean of opportunities	Mr.Mansing Mane (Navigation Officer)
10	Tuesday 18-02-14	Shivajayanti	Lecture on Raja Shivaji –Ek Abhiyanta'	Dr.Amer Aadake
11	Wednesday 26-02-14	Blood Donation	3 Blood Bank-3 Venue -341 Donor	-

3.6.6 Details of the social surveys, research or extension work (if any) undertaken by the Institute to ensure social justice and empower students from under-privileged and vulnerable sections of society.

The Institute NSS offers opportunities to the students for personality development, participation in social activities by adopting a village nearby the Taluka place.

- Blood Donation Camps
- Poster Presentations to create awareness about pollution, e- waste, Non Conventional Sources of Energy
- Institute gives relaxation in fees, prizes to the students from under privileged and vulnerable sections of society.

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

Extension activities conducted by the Institute always imbibe academic learning experience, values and skills in students and faculty. These activities also energize the environment of the Institute. The major strength of the Institute is its ability to ensure holistic development of students to make them responsible citizens. The Institute is an 'equal opportunity' institution established to provide knowledge and quality education to all sections of society. It aims to maintain modern outlook with contemporary developments without compromising moral values. To provide knowledge and quality based education to the students by inculcating moral values, scientific temper and employing state of the art technologies. It aims to pursue excellence towards creating manpower with high degree of intellectual, professional and cultural development to meet the national and global challenges.

Outcome:

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

- The outcomes of the extension activities help in overall personality development of the students. These in turn are useful in them obtaining social stature and for employment.

- The extension activities help to student to understand real life problems.

- Student can develop life long learning skills. They can apply the knowledge to solve the community problems.

- The extension activities expose the students to rural life and possible application of technology to make village life comfortable.

- Entrepreneurships skills are also developed amongst the students.

- The extension activity motivates the students to peruse higher studies.

3.6.8 Details of 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

Faculty and students of the Institute survey/ visit villages and nearby society, understands their needs and accordingly plans and organizes activities. The community stake holders are invited for the community programs and their suggestions are noted. As per the need Institute organizes the development program at community places (e.g. villages) or in Institute. Institute organizes cultural programs at schools and involves people in the programs.

Institute invites the villagers for the NSS camp. The student, faculty and villagers share their views and enjoy cultural programs together.

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

- **Shivaji University, Kolhapur with respect to curricular & extracurricular activities at inter university level**

Our institute has been recognized as a Lead Institute by Shivaji University Kolhapur for four successive years. Under this scheme various activities and many faculty development programs are

organized for faculty of our institute and near by Institutes. Institute has received following amount of funds from Shivaji University, Kolhapur for conducting activities. .

Sr. No	Lead Institute activity Year	Fund Received **Rs.**
1	2006-07	1199250.00
2.	2007-08	146700.00
3.	2008-09	1162957.00
4.	2009-10	1273860.00
	Total	3782767.00

- **Kolhapur Municipal Corporation with respect to river & lake pollution prevention during Ganesh festival**

River Panchaganga is one of the most polluted rivers in India. It is due to industrial, municipal and agricultural waste being discharged into the river without any treatment. This problem intensifies during festive occasion such as Ganesh festival when as per tradition, Ganesh idol and floral garbage is discharged into the river.

Our institute is one of the leading technical institutes, giving prime importance to the social issues. One of the steps towards this social awareness is Shri Ganesh Idol donation camp. For last 15 years the campaigns to create awareness to donate these idols are successfully conducted at number of places in Kolhapur city, which is well responded by conscious citizens. Every year on an average around 700 to 800 idols are collected in this donation campaigns.

- **Paschim Maharashtra Devasthan Committee with respect to improvisaton of the Shri Mahalaxmi Kirnostav event.**

During the period 2004-2006, the study of Kirnostav was done by the Institute. It was the task of identifying the obstacles to the phenomena of Kirnostav i.e. the falling of sunrays on Goddess Mahalaxmi's deity twice in a year. This is a very rare phenomenon showing the grandeur of architectural planning of ancient times. But due to some man-made constructions, obstacles were created preventing the occurance of the event in last 10-15 years. The Western Maharashtra Devasthan Committee has requested our faculty from the Institute to solve the problem. Principal investigator Prof. K.G. Hirasker and co-investigator Mr. S.S.Varur carried out a survey to help to solve the problem and find the obstacles causing hinderance to Kirnostav.

The survey was conducted by the faculty using advanced instruments like total station. The survey has revealed certain causes for the hinderances in the Kirnostav. A detailed report of the survey was submitted to western Maharashtra Devasthan committee by the institution along with proper remedial measures.

The voluntary removal of the obstructing structures by the inhabitants, constant follow-up by Devasthan committee and deliberations with commissioner of KMC has resulted into the event of Kirnostav now occurring to the extent of 78-80 % as compared to earlier non occurrence.

- **Varshalab, Kolhapur with respect to study of biodiversity of Jotiba Lakes.**

   Bio-Technology department has collected information related to bio-diversity of four important lakes in the Jotiba hill. Status report of the existing information was submitted to Varshalab.

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

- The Institute has secured the award for maximum number of merit scholarships under the rural sector, issued by Shivaji University Kolhapur for the last five years.
- ISTE Students Chapter of KITCOE has been adjudged as the Best Chapter of Maharashtra and Goa Section by Indian Society of Technical Education (ISTE), New Delhi in year 2011-12.

3.7   Collaboration

3.7.1. Details of 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.

   In the year 2007-08, Kirloskar oil Engines Ltd. Shifted its manufacturing unit from Pune to Kolhapur. The Department of mechanical Engineering, KITCOE has organized a training of more than 500 science graduates of Kirloskar oil Engines Ltd. Pune while establishing a new plant in Kolhapur, in various subjects of engineering during this shift-over phase and consulted them towards improvisational techniques in the manufacturing processes.

3.7.2 Details of 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 Departments of Biotech Engg., Production Engg. and Mechanical Engg. have signed MOUs with industries, covering activities like Training, Placement, Development of facilities for students etc.

Department of Production and mechanical Engineering have signed the MOU with 58 industries. Other Depatments of the Institute have also signed MOUs with the industries.

Information regarding MOUs signed by the Departments with Industries to organise Training Programs for students and their placement.

Sr. No.	Name of Industry	Subject / Field of MOU	Date of MOU	Period of MOU
1.	SCS renewable energy pvt. Ltd., (Indian Biodiesel Corporation), Baramati	Renewable energy (Biodiesel)	Completed	Completed
2.	Platonic India Ltd. Nashik	Biopesticides and Biofertilizers	In process	In process
3.	National Research Center on Pomegranate Solapur	Plant Tissue Culture	In process	In process
4.	PDEA's BaburaojiGholap Institute, Sangvi, Pune	Animal Tissue Culture	In process	In process
5.	Central DOGMA Pvt. Ltd. Pune	Genetic Engg. & Bioprocesses Development	July 2014	5 Years

Department of Computer Science and Engineering has signed the MOU with following Industries:
- Infosys Technologies Limited
- M/S Om Software Technologies

3.7.3 Details of 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.

Institute has signed MOU with organization - KPIT Technologies and we offer open elective – AUTOMOTIVE ELECTRONICS for final year students of Electronics and Electronic and Telecommunication Engg. KPIT Technologies conducts campus interviews for the students qualifying above elective.

It has also entered into a MoU with Zensar Technologies, Pune a leading IT corporate.

Computer Science Department:

The major interactions and related outcomes are as follows.

- Institute collaboration with WIPRO resulted in the MISSION 10X program for training of faculty. The academic leaders of Institute have also participated in the special training programs. This improved teaching learning and academic leadership.

- The Institute faculty and students has attended the SPARC program organized by INFOSYS. This resulted in exposure of faculty to state of art in the related areas.

- Institute has remote center of IIT Bombay, Mumbai which helps to offer the courses on technology. Institute is also member Aakash Education Project.

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

AICTE sponsored National Seminar on Recent Trends in Biological Sensors (RTBS) 2014

Name of the Resource Person	Designation	Topic
Dr. S.H Pawar	Vice Chancellor Dr. D. Y. Patil Univerisity, Kolhapur	Recent trends in electrochemical immunosensors
Mr. Ashish Dabade	Application Engineer, Kirloskar Pvt. Ltd. Pune	Nanobiosensor
Dr. Ajay Deshmukh	Principal, Daulatrao Aher Institute of Engg. Karad	Cancer Detection using MRI
Dr. Kshama Kulhali	Vice Principal, DYP CET, Kolhapur	Cancer Detection
Dr. Kavita S Oza	Dept. of Comp. Sci., Shivaji University, Kolhapur	Biomedical data mining
Dr. Prasad Dalvi (MD. Ph.D., Canada)	Head, Dept of Plant, Animal and Env. Sciences, DYP, Pune	Hypothalamic regulation of appetite regulating neuropeptide
Dr. R. K. Kamat	Head, Dept of CSE, Shivaji University, Kolhapur	Biomedical systems
Dr. D. N. Deobagkar	Former VC , Goa University	Biosensors
Dr. C.S.Mathpati	Asst.Prof. , Dept. of Chemical Engg. , ICT Mumbai	Bioreactor Design
Dr. Thakur	Head Fermentation dept. , CFTRI, Mysore	Bionanotechnology

Mr. Manoj Kharde	HR and Admin Head, Sanofi Ltd. Goa	Scope in Pharma companies
Mr. Suhas Patil	QC , Sanofi Ltd. Goa	Pharma validation
Mr. Shivaji Mallapa Nerli	Professor	Personality Development

3.7.5 Details 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

Interaction with the industry personnels is maintained by the Institute towards understanding of their needs and the shortfalls they realize in the current program curriculum.

Meetings with different organizational representatives were conducted for getting inputs for revision of syllabi.

Lupin Ltd., Tarapur Head, Chemical Engg. Dept., VIT Pune Scientist, DBT-Center for Energy Biosicences, ICT Mumbai, Marvellous Engineering, KOEL Kolhapur.

b) Internship/On-the-job training

Proper contacts with industries and organizations are maintained to ensure inplant training and internship opportunities to the students of the various programs.

c) Summer placement

Students are facilitated by providing the summer training in the CSIR - Center for Cell and Molecular Biology (CCMB) Hyderabad. Similarly students have been deputed for summer placements towards IIT Kanpur.

d) Faculty exchange and professional development.

Faculty from the Institute are invited for expert lectures and training in various academic and industrial institutions,

e) Research

Bio-diesel Corporation, Baramati has entrusted several research issues to us which have been successfully completed by our final year students in their UG and/or PG projects.

f) Consultancy

Insitute conducts comprehensive study of polluted lakes and suggest measures to conserve and restore the lakes, It includes study of pollution and ecological aspects of the lake and formulating suitable remedial actions for their protection.

g) Extension

Institute has substantially contributed towards extension by organizing campaigns for Ganesh Idol donations for preventing pollution of fresh water bodies.

h) Publications

Faculty of our institute is actively engaged in publishing technical and/or social articles on varius topics of awareness in the leading papers and magazines.

i) Student Placement

Institute has maintained placement relationships with renowned industries for the placement of their graduates.

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations.Any other relevant information regarding Research, Consultancy and Extension which the Institute would like to include.

The institute has established following cells for development of industry linkages and collaborations.

1. Research and Development Cell
2. Entrepreneurship Development Cell
3. Industry Institute Partnership Cell

- PG students are engaged in research activites.
- UG students are utilised effectively towards consultancy and extension activities which also helps in upliftment of their capabilities.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1   Physical Facilities

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

The Institution is one of the oldest Engineering Colleges in the District; started in year 1983 and has maintained 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.

Policy of Decentralization is followed in principle as well as in the infrastructure facilities by creating good individualistic breathing space for each Department:

- To group these space in such a way that they bear a relationship with each other and complement each other in their functioning.

- To design the classrooms space for effective and optimum study conditions from the point of ventilation, good lighting and acoustics.

- To make the laboratory space with door, window, light, ventilation, electricity and plumbing to meet specific needs of the practical work to be conducted and state-of-the-art equipments.

- To design the office for ergonomic conditions of the office staff for healthy and non strenuous working space.

- To have good circulation space above the standard norms of 25% for accommodating the dynamic needs of ever increasing number of students.

- To provide more and more cabin space for the teacher to function in a non intrusive manner for their academic needs.

- To have more green space like gardens, lawns, masonry sit outs for all season campus space for open learning for the students.

- To have Centralized Display and Public Address System for presenting the common topics in teaching and learning.

- To use ground contours to achieve aesthetically pleasing and mentally refreshing scenario for matching naturally with environment.

- To have good arterial roads for forming a network of decentralized parking for each department.

- To develop/enrich the facilities by regularly taking the feedback from stake holders and also by visiting the renowned academic institutes.

- To have decentralized canteen facilities spread evenly over the campus and to encourage any other adjacent private ownership that complements the needs of the Institute in terms of accommodations for the students, good hygienic mess and canteen facilities.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities – space

SN	Description	Nos	Area	Remarks
1	Classrooms	41	Avg. classroom size > 70 m^2.	
2	Technology enabled learning space	Many classrooms have LCD, OHP and have Wi-Fi facilities.		
3	Seminar halls	6	132 m^2	1 large common seminar Hall.
4	Tutorial space	6	33 m^2	
5	Laboratories	66	Avg. Lab size is > 70 m^2	
6	botanical garden	Dept. of Biotechnology has developed a herbal garden on the lines of botanical garden		
7	Animal house	--		
8	Specialized facilities and equipment for teaching-learning	Institute has min. 4 LCD projectors and one OHP in each dept., audio visual equipment through which remote workshops can be conducted. There is a digital library with WiFi Internet used for teaching-learning.		
9	Specialized facilities and equipment for research	Institute has developed special research labs like VLSI and Mechatronics lab and obtained NDT equipments and advanced Electronic equipments such as Total station, G.P.S., High end ARCGIS software, CAD/CAM Lab for research.		

b) Extra –curricular activities

Policies and strategies of the Institute for college sports persons

- For First Year students the Institute arranges lectures on scope, importance and Career in sports.

- The Institute provides Sports Kit and Sports Material for students who participate in Inter-State/National Level, Lead College, Zonal, Inter-zonal, West Zone, All India Inter University Tournament and many other different types of game and sports. The Institute also reimburses the T.A. and D.A. as per University Rules and Regulations.

- Institute provides Track Suits to students who are Members of Shivaji University Teams and Medal winners.

- Shivaji University has policy of giving additional benefits for students who participate in tournaments at All India, West Zone, National, State, Zone, Inter-zone levels. Due care and arrangements are made by authorized competent authority to see that the missed out University practical or Theory examinations are adjusted after the Tournament. University provides the time table and conducts the examinations for such persons**.**

  Student participation and activities

- Students of the Institute participate in various sports and games like chess, Basketball, Football, Badminton, Table Tennis, Lawn Tennis, Cricket, Archery, Mal Khamb, Shooting, Swimming, Volleyball, Kho-Kho, Hockey, etc.

- Department of Physical Education also organizes Annul Sports event very Year.

- Our Institution has organized Interzonal, Zonal and Lead college Level Tournament successfully. During the years 2011-2014 the Institute has organized tournaments in Gymnastics, Tennis, Table Tennis, Football, Chess and Athletics for Shivaji University.

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).

Planning and Ensuring of Infrastructure:

- The Institute develops the infrastructure as per the norms of AICTE, University and State government. The experts from the regulatory authorities regularly monitor and visit the Institute. This enables the Institute to ensure the infrastructure adequacy and optimum use for academic growth.

Every new structure proposed to be constructed is processed along as follows. (i) Proposal from the respective department as per their requirements (ii) IQAC puts-up the same to the Principal (iii)The Principal sends it to Infrastructure Coordinator/Estate Office for scrutiny, (iv) It is sent back to Principal for recommendation and then, (v) Final approval from Management.

- After approval the proposal is deliberated jointly and space and area is identified and the architects are appointed. The progress is reviewed through every stage of construction and furniture work. In house civil engineering faculties are consulted for advice and meaningful inputs.

- Apart from this, Institute takes feedback from stakeholders for development of facilities.

- There is a Building Committee which meets every semester or as need may be to collect requirements from concerned HODs and adds/enriches the infrastructure facilities.

Facilities developed in last four years -

In last four years the Institute has developed the class rooms, labs, tutorial rooms and seminar halls to meet the requirement of regulatory bodies and also for effective implementation of academics. The Institutes has enriched the labs with regular and special purpose equipments, instruments, computers and software.

- It has also developed the special labs to meet the requirements of PG courses and research.

- It has developed Digital Library and Departmental Libraries.

The details of the facilities which have been added / proposed are as under:

Sr. No.	Infrastructure	Amount (Rs.)
	2011-12	
1	New building for Dept of Electronics and communication building	1,78.70 lakhs
2	Extension work of Prod./Mech. bldg	34.81 lakhs
3	Compound wall fencing barbed wire	6,44.435 lakhs
	2012- 13	
1	Roads BBM work for Main Internal roads of college	1,20.81 lakhs
2	Repairs To Internal Roads	32.08 lakhs
	2013- 14	
1	Construction work for expansion of main building on the second floor	240 lakhs

2014-15 (Proposed)		
1	Proposed Canteen building	160 lakhs
2	Renovation of Main Office space	35 lakhs
3	Roofing of Open Air Theatre	50 lakhs
4	Arterial Roads from Well to Main building via Boys Hostel and non vehicular Zone	26 lakhs
5	Proposed Interiorwor k of seminar hall for Production/Mechanical Engg. Dept.s	150 lakhs

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

Institute has provided ramps at appropriate entrance locations. Institute has made appropriate provisions in washrooms and class rooms and labs to provide the easy movement for physically disabled students.

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

Hostel Facility:

The institution has separate boys and girls hostel. The strength of hostel for boys' hostel is 312 capacities and for girls hostel is 90. Arrangement for provision of water purifiers with cooler and bathrooms with solar water heaters are made in hostel building.

Recreation facilities:

Lush–green open space in the form of ground for out-door games such as football/ cricket, basketball and volleyball game are made.

For in-door recreation games carom board, chess etc. are provided by the Institute. Yoga classes are arranged on request from the inmates of the hostel and Art of Living courses are conducted for meditation and yoga in college campus.

Computer facility including Internet access in hostel:

The college hostels are having a separate computer room (no of PC's in boys' hostel-12 and girls' hostel- 4) with WiFi facility for both the boys and girls hostel. They are provided with unlimited Internet access.

Medical room:

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 weekly visit of a doctor and the doctor is available on call at other times.

Library:

The hostel buildings have provision for reading and study (magazines, newspapers, periodicals) etc.

Hygiene facilities:

There are three class IV employees for cleaning of toilets and common areas in the hostels. Water cooler with RO water purifiers ensuring constant supply of safe drinking water is available in the hostels.

Security:

Separate rector and warden are appointed for both the boys' and girls' hostels.

Separate security is deployed at the entrance of the hostels and strict timings are 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 ambulance, doctors on emergency call are made available in campus and off campus as and when necessary.

4.1.7   Give details of the common facilities available on the campus

Sr. No.	Description	Area	Location	Teacher In charge
1	Space for special units like IQAC(Internal Quality Assurance Cell),	($70\ m^2$)	Basement-Central Library.	Prof. V. K. Desai and Mrs. M. R Dixit
2	Space for Grievance Redressal unit	($70\ m^2$)		
3	Space for Women's Cell	($70\ m^2$)		
4	Space for Counseling and Career Guidance	$125\ m^2$	G.F.-Central Library	Dr. Heddur
5	space for placement unit of Training and Placement Officer (TPO office)	$60\ m^2$	U.G.F Central Library	
6	Space for Health Centre (Gymnasium)	$140\ m^2$	Near boys' hostel	Physical Director
7	Space for Canteen (1+2)	$177\ m^2$	Near Workshop and near central Library	
8	Space for recreational of staff	$120\ m^2$	L.G.F central Library	

Sr. No.	Description	Area	Location	Teacher In charge
9	Space for safe drinking water	2 m²	At end of corridors	C and M Cell
10	Space for recreational of students	120 m²	L.G.F. Central Library	
11	Space for auditorium (Open Air Theatre)			
12	Additional	Playground area		

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, Library has an advisory committee known as Library Committee. The committee comprises of following members:-

SN	Designation	Status
1	Principal	Chairman
2	Senior Faculty (Experience> 15 years)	Coordinator, Central Library
3	Librarian	Member Secretary
4	Departmental Library Coordinators (Faculty from each Department)	Members
5	Library Staff	Asst. Librarian

Minimum two meetings are arranged in each year (one in a semester.) The Library Committee approves all the proposed rules and major decisions regarding the functioning of the Library.

Significant Initiatives:
- Procurement of commercial Library Software
- Issuing the Library Cards with Barcode to the students and staff for issue of books
- Digital Library of 30 nodes in the Central Library building
- Wi-Fi facility in the library building
- Procurement of separate 6KVA UPS system for Library
- Increasing titles per branch for collection development

- Strengthening the Book Bank for the benefit of students
- Extending Reading Room hours before and during the examination.
- Arranging book exhibitions
- Provision of Institutional membership
- Book loans to Departmental Library
- Organizing of Vachanvedh activity for cultivating reading culture amongst the students

4.2.2 Provide details of the following:

Sr. No.	Description	Area (m²)	Remarks
1	Total Area of the library (in Sq. Mts.)	1210.0	
	Reference Section	138.5	
	Question Bank Section	2.5	
	General Reading Hall	33.0	
	Personnel Belongs Reading Hall	1.0	
	News Paper Reading Hall	18.0	
	Staff Reading Hall	33.0	
	Project Section	*	
2	Total seating capacity	200 Nos.	

* Project reports are kept in respective departmental libraries for effective usage.

Working hours (on working days, on holidays, before examination, during examination, during vacation)

On all working days:
From 9.00 a.m. to 5.30 p.m.
Reading room facility extended up to 8 p.m.

Before examination days:
From 9.00 a.m. to 5.30 p.m.
Reading room facility extended up to 8 p.m.

During examination days:
From 9.00 a.m. to 5.30 p.m.
Reading room facility extended up to 8 p.m.

During Vacation
From 9.00 a.m. to 5.30 p.m.
Reading room facility extended up to 8 p.m.

- **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
  i. Individual reading carrels –available
  ii. Lounge area for browsing - Stacks
  iii. IT zone for accessing e-resources – Separate section for Digital Library

having 30 nodes with internet connectivity in Central Library building. Wi-fi facility available in the Library building. IP based access to e-resources, which can be accessible in KIT campus.

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.

Library is taking due care to purchase current titles each year. The latest catalogues are available with the Library and the faculties are requested to consult the same while recommending the books. The catalogue in print as well as e-format also mailed to the concern department for their information and recommendation. The library requisition form with a proper format is given to the staff for recommending the books. In addition to this according to students demand, Library staff prepares department wise list and after due consultation with Head of the Departments, the books added in the collection. Library always taking due care to fulfill the norms given by Apex bodies regarding books, journals and other library holding.

Data of Last 4 years

(Collection added in last 4 years)

Library holdings	2010-11		2011-12		2012-13		2013-14	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
A)PRINT FORM Text and Reference	4560	1959454	5583	1658250	3731	2186984	801	138306
Journals/ Periodicals	132	341691	116	230283	123	264905	123	271491
e-resources	273	464860	706	1574635	706	1749459	345	742204

Data of Total number of books

Library holdings	2010-11	2011-12	2012-13	2013-14
Books	37169	42752	46483	47284

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

OPAC (Online Public Access Catalogue)

Web OPAC (Online Public Access Catalogue) facility is made available through Vidyasagar Library Management Software to know the bibliographical details about the collection. One separate node is made available in the Central Library for OPAC facility. And as it is a Web OPAC, user from any location can search the library collection. Simple search by giving Title, Author, and Department, advanced search facility is provided through OPAC. The OPAC service is available at the www.shikshan.net.

Electronic Resource Management package for e-journals

As the update users to the latest technology library is subscribing e-resource packages of Elsevier e-journal (Science Direct). These e-resources are accessible from anywhere in the Institute campus and link to all such e-resources is available on library webpage. In addition to that, link to scholarly open access journals/database is also available on the Library webpage.

Federated searching tools to search articles in multiple databases:

Library is subscribing total 345 Elsevier e-journal package where the federated search facility is available.

Library Website:
Library webpage provides information regarding library. It provides direct link to Web OPAC and subscribed e-resources and open access journals and eBooks. It also provides information about library facilities, rules/regulations, News/events
In-house/remote access to e-publications
A well equipped Digital Library with 30 nodes having internet connectivity is housed in the Central Library for access to e-publications. As the access facility to e-journals is multiuser and IP address-based the students can access the e-publication from anywhere in the campus.

Library Automation:

All the active book collection is updated in the Vidyasagar Library Management Software database and the Web OPAC is available for the users. The issue and return of books has been activated with the Vidyasagar Library Management Software.

Total number of computers for public access

To access the e journals and internet a digital library of 30 nodes is facilitated to the users in the Central Library. Apart from this one separate node is made available to search OPAC.

Total numbers of printers for public access

There are two printers available in the library for printing
Internet band width speed □ **2 mbps** □ **10 mbps** □ **1 GB**
The internet bandwidth of **30 Mbps** is available.

Institutional Repository

a) Article Repository : Published research paper/article of the faculty members
b) Book Repository : Published books of the faculty members.
c) Thesis Repository : Awarded Ph.D. Thesis of Faculty

Content management system for e-learning

Library is having content management system for e-learning.

Participation in Resource sharing networks/consortia (like Inflibnet)

Library is subscribing total 345 e journals through INDEST_AICTE consortia.

4.2.5 **Provide details on the following terms:**

Average number of walk-ins	400
Average number of books issued/returned	250
Ratio of library books to students enrolled	18:1
Average number of books added during last three years	3371
Average number of login to OPAC	273
Average number of login to e-resources (per month)	8664
Average number of e-resources downloaded/printed (p.m)	8664
Number of information literacy trainings organized	10
Details of "weeding out" of books and other materials	930

4.2.6 **Give details of the specialized services provided by the library Manuscripts**

Library is having manuscript collection.

Reference

A separate reference section with rich collection of handbook, manuals is available in the library. Personal guidance for searching the information is given by the staff. Also our Science direct package shows the abstract of non subscribed journals also.

Reprography

Reprography facility is available in the library for the benefit of users.

ILL (Inter Library Loan Service)

As library is having institutional membership of IIT Bombay, Mumbai and Shivaji University, Kolhapur. The users benefit from library services of these libraries.

Information deployment and notification (Information Deployment And Notification)

The information of library collection is available through web OPAC. The department wise collection can be searched remotely through OPAC. Current Awareness Service (CAS) is also provided on Web OPAC. The library notices/circulars are displayed. To cultivate the reading habit amongst the user, the book awareness programmes are conducted frequently. Display of new arrivals to aware the user and motivate them to read.

Download

E journals subscribed by the library can be downloaded by stakeholders in digital library and throughout the campus.

Printing

Printing facility is available for the users to take printouts.

Reading list/ Bibliography compilation

Library has maintained digital catalogue (OPAC) which provides all the details about the books.

The library has Index to Project work of the students and Staff.

In-house/remote access to e-resources

A well equipped Digital Library with 30 nodes with internet connectivity is housed in the Central Library for access to e-publication. As the access facility to e journals is multiuser and IP address-based the students can access the e-publications from anywhere in the campus.

User Orientation and awareness

User orientation programs are conducted at the time of every academic year for students of first year and directly admitted to second year. In addition, Current Awareness Service (CAS) is provided through OPAC. New arrivals are displayed in the library office for the

information of users.

Assistance in searching Databases

The library staff assists the users in searching the desired information available with various sources. Training session for effective searching is also arranged to make the user aware about the advanced searching technique.

INFLIBNET/IUC facilities

- Library is having institutional membership of IIT Bombay, Mumbai
- Inter Library Loan facility of Barr. Balasaheb Khardekar Library, Kolhapur. E-resources through AICTE-INDEST consortia

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

- Library is a service oriented sector where manpower of Library is very much important. Well educated, hard working and cooperative staff is the main strength of the Central Library of KIT's College of Engineering.
- At a time, two books are issued to the UG students, 3 books for PG Students and 7 books for teaching staff.
- Arranging book exhibitions of renowned publishers.
- Display of reference book from existing collection for the user awareness.
- Theme based exhibition of existing collection
- Book Bank facility for the students
- Class Toppers Incentive Scheme of Book Bank
- Personal assistance for searching the database and also training sessions
- Digital Library of 30 nodes for e-journal access and Internet browsing.
- Separate Reference, Periodicals, Circulation and Reading Room sections.
- Open access to motivate the reading.
- Reprography facility available
- Printing and downloading facility
- Conducting library User awareness programs and training sessions for searching databases.

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

- Liberal policy is implemented for the differently abled persons.

- Special washrooms available in the library for the differently abled users.

- First preference for circulation and book bank facility.

- Special provision of issuing to helper/relative of such a person.

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. Library collects regular feedback from the users. Depending upon the feedback:-

Reading room facility extended before and during the examination period.
Addition of books in the book bank
Addition in the magazines
Collection development of books for general reading, competitive examinations

4.3   IT Infrastructure

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

Hardware		
1	Number of computers with configuration(provide actual number with exact configuration of each available system)	1033
2	Computer –student ratio	1: 2.8
3	Stand alone facility	NIL
4	LAN facility	1000/100 mbps connectivity to each dept. 1000 mbps in inter building
5	Wi-Fi facility	Yes (entire campus has Wi-Fi facility)
Licensed Software		
❖ (BMS system) at Central Server Room ❖ At Central Library ➢ Microsoft OS – 2 ➢ Vidyasagar Library management Software -1 ❖ Environment ➢ 3.1 IDRISI ➢ CARTA LINX ➢ Airomode View TM ❖ CSE Dept ➢ MS Visual Studio 6.0 ➢ MATLAB ➢ REDHAT LINUX (PROFESSIONAL) ➢ ORACLE 8i 5 User		

	- BORLAND JAVA BUILDER - SQL SERVER 2000 ACADEMIC - ORACLE PROGRAMMER - SCO UNIX HOST 5 USER - NOVELL C/W NW5 SERVER.andSUPPORT SK	
	- NOVELL C/W NW5 INTEGRATING WINDOWS NT SK - NOVELL C/W NETWARE 5.1 ADMIN SK - NOVELL 5.1 (50) UPG. From 10 license No.300790630 - NOVELL C/W NETWARE 5.1 ADV ADMIN SK - NORTON 2002 ANTIVIRUS SW 5 USER BOX - MS SQL Server 2000 MOLP NL AE - MS Winodws XP Home License. - MS Visual Studio .Net prof. 2003 MOLP NL AE - Norton Systems Works 2004 Full Pack - Coral Draw 11 Suite AE MS Office 2003 Prof. MOLP NL AE - MS Windows 2000 Serv. 50 user license - Crystal Report Ver. 9.0 Prof.Full Pack. - Oracle 9i STD. Edition 5 Users. - Turb C++ Suite License - BORLAN Turbo Assembler paper License AE - ANTIVIRUS LQUICK HEAL 'e' Scan Antiviurs - SHABDKOSH - SCO COMPLETE XENIZ System for PC / AT. "RED ALERT" SOFTWARE - FORTRAN – 77 - WIN 95 - Window 95 - DOS 6.22 - WIN 3.11 - WORDSTAR -7 - RED ALERT FOR LAN - NOVEL NETWARE - MICROSOFT WINDOWS 98 ❖ ETC Dept - XILINX 14.2 version - MATLAB R2010a , RF tool box	
6	Number of nodes/computer with Internet facility	930 nos – (approx. 90%)
7	Any other	- Proxy service for wired and Wi-Fi connectivity. - TOTAL Backup Electric supply of 150 KVA - Generator backup of 6KVA for 4 hours in server room for Server - ERP Software and servers. - Central MOODLE server+

		➢ Central Feedback server
		➢ Central NPTEL server
		➢ CSE MOODLE Server
		➢ IT MOODLE Server
		➢ Institution Website.
		➢ Public IP address-12
		➢ 20 Mbps VPN Internet Connection over OFC
		➢ 30Mbps (1:1) Leased Line over Optical Fiber cable
		➢ Layer three manageable switch
		➢ KVM- switch for servers
		➢ Fiber Optical connections between main building and central library, mech- prod, biotech, girls hostel, boys hostel.
		➢ Twenty three wifi points throughout the campus
		➢ 2 Mbps VPN broadband connections - 6 nos. I. CSE, II-IT, III-Principal, IV-Production-V-Electronics, VI-Server Room

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

- Internet service is available in the Institute for faculty and students. Almost every computer in the campus is connected to Internet facility.
- The Principal cabin, Office, HOD and faculty cabins, computer labs in every department have the facility of Internet.
- The ratio of computer and the students is approximately 1: 2.8.
- The College has a digital library.
- The students and the society have a free access to the college website, www.kitcoek.in, Central MOODLE facility and the departmental MOODLE facilities are made available to students and staff for 24 hours.
  Also there are 23 Wi-Fi points available in campus, all of which are providing Internet connectivity to students and staff members.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?
- Institute has upgraded the 10Mbps Leased Line Internet connectivity to 30 Mbps Leased Line over Optical Fiber Cable.
- The Institute has 3 line of Internet connectivity with the ISP, which is providing very high fault tolerance for Internet connection.
- Institute level email server, interactive LCD projectors in department classrooms are made available.
- The institute in the near future is optimistic as far as the infrastructural up gradation is concerned.

- The college intends to upgrade the PCs of latest configuration available in the market.
- This apart, stress will be laid on the purchasing of new hardware.
- Technicians from Department of Computer Science and the Department of Information Technology are assigned the responsibility of minor repairs and replacement of the non functional parts.
- Non working computer hardware components are used as models for demonstration during the practicals.
- Up-gradation of video conferencing facility.

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)

Sr. No.	Financial Year	Provision in the budget, Rs.	Utilization	Remarks
1	2010-11	50,00,000	59,65,190	Used for Procurement Computers and UPS System
		13,53,788	13,53,788	Internet Leased Line
		Total Rs.	73,18,978	
2	2011-12	9,38,418	9,38,418	Used for Procurement of Computers and Peripherals
		6,14,963	6,14,963	Internet Leased Line
		Total Rs.	15,53,381	
3	2012-13	25,00,000	68,95,365	Used for Procurement of Computer and UPS System
		20,47,247	20,47,247	Internet Leased Line
		Total Rs.	89,42,612	
4	2013-14	91,08,000	51,41,390	Used for Procurement of Computers
			13,20,096	Used for Procurement of Servers
			5,13,300	Used for Procurement of UPS Systems
		19,82,324	19,82,324	Internet Leased Line Up-gradation of Internet Leased Line to 30Mbps Up-gradation took place in the month of February 2014.
		Total Rs.	89,57,110	

Sr. No.	Financial Year	Provision in the budget, Rs.	Utilization	Remarks
		2,78,083	2,78,083	Used for Procurement of Computers and UPS Systems
5	2014-15	7,86,520	7,86,520	Internet Leased Line
		Total Rs.	10.64.603	

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

- In all a total of 13 workshops have been conducted in the Institute under NMEICT program sponsored by MHRD. IIT B is the nodal center for these workshops. The remote center ID of the Institute for these workshops is 1092.
- We have NPTEL system which is also under NMEICT program. NPTEL system makes available a number of video lectures for different engineering streams and subjects. The memory occupied by the course material through NPTEL is of 2TB in size.
- The Institute has subscribed following e-resources / e-journals for the year 2012.

  All faculty members, students and information seekers are through notices time and again, requested to access the following website for e-resources and get benefitted by updating the knowledge for academic development.

Sr. No.	Title of E-Resource	Website Address	No. of Journals	Access
1	McGraw Hill Access Engg.	http://accessengineeringlibrary.com	Ref. Books and Articles	
2	Springer Mechanical Engg.	www.springerlink.com	46	
3	Springer ELE.,ELN and CSE Engg.	www.springerlink.com	134	KIT
4	IEEE all Society Periodical Package	http://www.ieee.org/ieeexplore	145	CAMPUS NETWORK
5	J-Gate Engg. and Technology	http://jgate.in or http://www.j-gate.informindia.co.in Username : kitcejgate Password : kit36235208	4700indexed 1700free full text	

6	ASTM Digital Library	http://enterprise.astm.org	1700E-bks and 13000articles	
7	ASCE Package	http://ascelibrary.org	33	
8	Science Direct Engg.and CSE	www.sciencedirect.com	275	
9	PG Biotechnology	www.sciencedirect.com	70	
10	Nature +Scientific American +Scientific American Mind	www.nature.com	3	

MOODLE (Modular Object Oriented Dynamic Learning Environment) Learning Management System is also included in the ICT facility available in the Institute.

Spoken tutorials from IITB are also available at the Institute.

In addition to this our students take facility of MOOC and Courses, websites where teachers from many countries conduct live lectures. These websites are accessible in the Institute campus.

The Central Library is having CDs of books as well as journals. Other than these, the CD's related to personality development, motivation etc are also in the collection of the Library and faculty as well as students make use of this facility.

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

▪ Central MOODLE server is established and activated in the Institute.

▪ All teachers and students are registered members of MOODLE server.

▪ Teachers have been assigned the course on MOODLE server, and students are enrolled to specific courses of their Departments. Use of MOODLE a enables teacher set the assignments which students can perform in laboratories or from home. The MOODLE server is running on public IP address, which enables our teachers and students to access it from anywhere at any time. A teacher can set quizzes, maintain attendance records, can share resources like presentations, course material, books, files or links to Internet resources, on the MOODLE platform. Continuous assessment of students' performance and grading can be done on MOODLE platform. It is also possible to conduct

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interactive live lectures through MOODLE. All the Departments have made using MOODLE a necessary measure to monitor the teaching learning process.

- Students are benefitted as they can submit assignment from their home. They can login and refer to course materials and access all the resources shared by their teacher. The teacher can monitor all the activities of students in the course.
- The students can know about their attendance, marks in internal assessment tests, test paper solutions, question banks for studies and mock preparation, continuous assessment of their term work and scope for improvement.

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?

- At the Institute, 13 workshops have been conducted under NMEICT program sponsored by MHRD. IIT B is the nodal center of workshops. The Institute's remote center ID for these workshops is 1092.

- We have NPTEL system which is also under NMEICT program. In NPTEL system we have collection of Video Lectures for different engineering streams and subjects.

- The material we got under NPTEL is of 2TB in size.

Sr. No.	Dates	Workshop Topic	Coordinator	Dept.	Amt. Recd. Rs.	Participants
1	5-6, 12-13, 19-20, 26-27 Nov 2011 and 3-4 Dec 2011	Software Development Techniques for Engineers and Scientists (SDES)	TB Patil	IT	2,25,000	49-Teachers
2	29 Nov to 10 Dec 2011	Heat Transfer	Dr. D V Ghevade	Mech	1,25,000	23-Teachers
3	18-19 Feb 2012	Writing Effective Conference Papers	Dr. V V Khanzode	Prod	30,000	49Teachers
4	12-22 Jun 2012	Computational Fluid Dynamics	U S Bhapkar	Mech	138,603	39-Teachers
5	25 Jun-4 July 2012	Introduction to Research Methodologies	AS Patil	IT	1,27,729	42Teachers
6	11-12 Nov 2012	Aakash for Education	T B Patil	IT	Nil	55Teachers
7	11-21 Dec 2012	Engineering Thermodynamics	S S Shinde	Mech	1,08,518	23-Teachers

Sr. No.	Dates	Workshop Topic	Coordinator	Dept.	Amt. Recd. Rs.	Participants
8	23, 24 Feb; 2, 3 Mar 2013	Aakash Android Application Programming Workshop	T B Patil	IT	17,000	69-Students
9	23-24 Feb and 2-3 Mar 2013	Research Methods in Educational Technology	Dr. V V Khanzode	Prod	7,000	40 Teachers
10	21-31 May 2013	Database Management Systems	M S Kalas	IT	1,25,020	37 Teachers
11	4-14 Jun 2013	Analog Electronics	Dr. M S Chavan	Electn.	130901	40-Teachers
12	2-12 Jan 2014	Signals and Systems	Dr. YM Patil	Electn.	139051	37 Teachers
13	05 May - 09 May 2014	Computer Programming	Pranav Menthe	IT	3,300.00	20 students
14	30 Jun -05 Jul 2014	Computer Networking	Rajesh Gade	IT	63,777.00	20 students

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)?

Year	SN	Description	Budget Allotted (F.Y)Rs.
20110 – 11	a.	Building	10,85,000
	b.	Furniture	4,50,000
	c.	Equipment and Electrical	1,25,000
	d.	Vehicle	2,70,000
	e.	Any other	50,000
2011 – 12	a.	Building	17,25,000
	b.	Furniture	1,50,000
	c.	Equipment and Electrical	5,0 0,000
	d.	Vehicle	2,75,000
	e.	Any other	75,000

Year	SN	Description	Budget Allotted (F.Y)Rs.
2012-13	a.	Building	13,80,000
	b.	Furniture	1,20,000
	c.	Equipment and Electrical	3,20,000
	d.	Vehicle	2,00,000
	e.	Any other	NIL
2013- 14	a.	Building	13,80,000
	b.	Furniture	1,20,000
	c.	Equipment and Electrical	92,08,000
	d.	Vehicle	2,00,000
	e.	Any other	NIL

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

- An Infrastructure Coordinator is appointed every year from the senior faculty of Civil Engineering Department having professional experience for the overall developmental and maintenance work. He is assisted by the Service Engineer with vast field experience reporting to him. The service engineer has a team of skilled and semiskilled personnel working under him.
- This team looks after the daily maintenance of civil works such as furniture repairs, masonry and plaster works, painting carpentry, plumbing and house-keeping work.
- There is a separate Faculty in charge of the responsibility of overall electric works, who also has a team of electricians working under her.

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

- The laboratory equipments are maintained and calibrated through budget allotted for the same to the respective Department from the College Development Fund.
- The calibration of selective equipment is undertaken periodically by the Departments.
- The Institute has a team of qualified technical staff for maintaining computers and networking facilities. Some of the members are identified for the same and it is ensured that they are available at

short notice.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- There is a separate Faculty In charge with responsibility of overall electric works, which has a team of electrician working under her.
- Besides a Service Engineer (Maintenance Department) has been appointed who keeps the record of AMC for water purifiers for constant supply of water and monitors the timely servicing of the purifier equipment.

- Besides the Lab in charge along with the lab assistants keep a strict vigil over the smooth working of the sensitive equipments in their respective labs and get them repaired within or beyond budget allocations.

    Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

- The Institute was started in year 1983 and has steadily progressed by increase in its student's intake from a mere 180 to 660, one of the highest for Kolhapur District and the UG programs from three to nine plus four PG programs..

- The Institute is situated on a beautifully contoured piece of land of nearly 30 acres with decentralized Departments and has always strived to preserve the natural features by identifying the buildings around these natural features.
- There is a large Open air theatre with a seating capacity of 450, which has on several occasions seen distinguish personalities addressed the young students of our college, the likes of ISRO Chairman, Dr. Kasturirangan, Dr. Raghunath Mahselkar, Padmashri Dr.Vijay Bhatkar, Dr. Anil Kakodlar, Padmashri Dr. Shivram Bhoje, Dr. N. J. PAWAR , Dr. Arun Nigvekar among others.
- The extension/renovation works are undertaken in lines with the earlier ashlar stone masonry architecture with fiber domes to top the roofs, which has also become symbolic design of our Institution.
- The high vantage ground, naturally contoured, landscaped features along with 24 hours unrestricted and unlimited high speed WiFi Internet facilities are exclusive features of the Institute which compels the student not to leave the campus even on non working hours and days.

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', Institute publishes the prospectus every year containing details about the activities conducted, Institutes special features, facilities extended and achievements, Services rendered to industry & society. The institute has started publishing Student's Handbook / Diary which contains Academic Calendar, Scope & opportunities in various Engineering discipline, Mobile nos. of faculty holding important posts, List of various academic committees & its coordinators, details of various Institutional activities 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?

Every year class topper from each Department receives Rs. 500 as a cash prize. Best Outgoing Student (BOS) of each year receives Rs. 1000 as a cash prize. Few cash prizes are sponsored by trustee members and alumni of institute.

Sr.No	Year	No. of Students Received	Amount Disbursed	Disbursed Date
1	2010-11	32	16400	21-4-11
2	2011-12	21	22125	15-4-12
3	2012-13	23	22876	16-4-13
4	2013-14	46	34376	15-4-14

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

Scholarships offered to the students as per government policy is about 50%. Number of students who received scholarships in last four years

Type of Scholarship	Agency	No. of Students those have received Financial Assistance			
		2010-11	2011-12	2012-13	2013-14
Scholarship & Free ship	State Govt	724	773	909	1018
EBC	State Govt	334	407	432	504
STC	State Govt	58	51	42	42

Type of Scholarship	Agency	No. of Students those have received Financial Assistance			
		2010-11	**2011-12**	**2012-13**	**2013-14**
PTC	State Govt	29	44	42	34
Handicap	State Govt	8	10	13	7
Minority	Central Govt	29	39	38	39
J&K	Central Govt	0	0	1	1
GATE	Central Govt	1	2	4	6
Central Sector	Central Govt	7	27	64	60
TOTAL	---	**1190**	**1353**	**1545**	**1711**

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 center, 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

The institution for this purpose provides the following support facilities to its students:

- ***Students from SC/ST, OBC and economically weaker sections:***
  Institute offers free Book Bank Facility to all the students in these categories.
- ***Students with physical disabilities:***
  Preference is given to the students with physically disabilities in usage & book issues in Library. They can exchange the books on any day & time. For other students the exchange of books is as per the time table.
- ***Overseas students:***

  There are no overseas students admitted in the Institute.

- ***Students to participate in various competitions/National and International/Organizing coaching classes for competitive exams:***

  Information is circulated among students about various paper presentations, seminars, project competitions, model makings etc. as well as notified on notice boards. Students are guided by faculty

members for participation in these competitions. Usage of laboratories & computer facilities, e journals, library, workshop etc. are extended to students.

▪ *Medical assistance to students: health center, health insurance etc.:*

First aid facility, qualified medical assistance is available in campus and all students are covered under Medical / Health Insurance policy.

▪ *Skill development (Spoken English, Personality Development Program, Technical Certifications etc.)*

Soft Skills development activities are conducted for the benefit of students. Language laboratory facility is available. Training and Placement cell helps in organizing activities on personality development, soft skill development.

▪ *Support for "slow learners"*

Provisions are made in weekly time table for Conducting additional / Remedial lectures for slow learners, poor performers. Improvement Tests are conducted for those who need to improve performance in Internal Assessment Tests. Question bank & Set of question papers of previous University examinations are provided. Model Answers & solutions are displayed. Mentoring scheme for guidance is also available.

▪ *Exposures of students to other institution of higher learning/ corporate/business house etc.*

Participation in IIT Techfests, ISTE Conventions & visits to IIT, Science Youth Congress, etc. Industrial Training, Industrial Visits, Visits to Exhibitions like Imtex-Auto Expo etc.

▪ *Publication of student magazines*

The College publishes its annual college magazine TECHNIQUE. Students write technical and literary articles in the magazine, Platform of Departmental Newsletter provides an opportunity to write / publish /share the ideas of the students.

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

▪ Institute has the Entrepreneurship Development Cell.
▪ Institute is a member of NEN (National Entrepreneurship Network) founded by Wadhva Foundation & Stanford University USA.
▪ Entrepreneurship Awareness / Development Camps sponsored by Department of Science & Technology New Delhi are conducted.

■ As a part of third year curriculum, students undergo vocational training during summer vacation for about a month and submit a report based on it. This provides exposure to industrial work culture; processes and lives experience of its functioning and help to understand the prerequisites for an entrepreneur.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.
* Additional academic support, flexibility in examinations
* Special dietary requirements, sports uniform and materials
* Any other

Institute has the following policies/strategies:
- Awareness lecture on importance & role of Extra Curricular activities in Career building and scope for it at first year
- Identification of talent among students from mentoring mechanism.
- Encouragement to the students to participate in events organized at Zonal level, State level as well as in Lead College Activities.
- Various bodies are functioning to promote the participation of students such as GAGANVEDHI, AURA, WWW, RIC, and NSS etc. which help the students to improve their skills and work for the community).

*Institute recommended to the University to grant 10 marks for notable participation for two years in NSS activities in final year examination which was granted.

The following provisions are made:
- Participating students are treated as on Deputation on College work
- Flexibility in conduction of Internal tests/ examinations for participants
- Academic guidance & extra practical facility is extended to the students participating in extra and co- curricular activities,
- Allowance like TA-DA, Registration fees, additional expenses are provided

∗ Special dietary requirements, sports uniform and materials
Institute provides Sports Kit and Sports Material to students who participate in International, State or National, Lead College, Zonal, Inter-zonal, All India

Inter University Tournament, for different types of Games and Sports. Institute gives Track Suits for University Players (selected as Member of Shivaji University Team) & also Medal winners.

* Shivaji University gives additional benefit for Student who participate in National, State, Zonal, Inter-zonal Tournaments. If the major sports competition clashes with Practical or Theory Exam the University prepares special time table for the sports persons & conducts the Exams.

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**.

Orientation & guidance lectures are organized every year. Students who are interested and willing to appear in various competitive examinations are helped by the teachers by the way of study material and counseling for preparation. Students are allowed to have access to library and to refer books related to entrance tests. In the recent past many students have appeared and qualified in various competitive exams and the details are as follows:

Year	Exam	Appeared	Qualified
2010-11	CAT	2	2
	GATE/GRE/TOEFL	84	59
	GMAT	0	0
	Central/State Services	1	0
2011-12	CAT	2	1
	GATE/GRE/TOEFL	68	37
	GMAT	0	0
	Central/State Services	2	1
2012-13	CAT	2	1
	GATE/GRE/TOEFL	110	63
	GMAT	1	1
	Central/State Services	2	1
2013-14	CAT	3	3
	GATE/GRE/TOEFL	119	53
	GMAT	2	2
	Central/State Services	3	1

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

Institute has Mentoring Scheme in which a mentor (faculty) is allotted six first year and fifteen students from second to final year. Monthly meetings are by the mentor with the students to discuss academic performance and progress of the allotted students. Mentors render guidance in studies, career planning and also address personal and psycho social issues.

Academic & Career Counseling:

The students, at the time of the admission, are guided by the faculty in choosing appropriate branch. They are informed about the scope and nature of the various subjects that form the syllabus. They are counseled adequately to shape their career. Personalized counseling and parental care is made possible by Mentor Mentee Schemes practiced in the Institute.

Personal & Psycho-Social Counseling:

The students during the course of their studies in the Institute come across various issues. They are, at times unable to take the right decisions, overcome psychological issues and handle different problems. Personal counseling provided by Institute helps them to overcome such situations. They are counseled to become better human beings and to stand tall and face different situations.

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

The Institute has a structured mechanism for career guidance for its students. Under the guidance of the Principal the Institutes training and placement officer in coordination with Departmental Training and Placement coordinators carry out different activities related to both training and placement. These include,
Collection of data and CV's of each student
Arranging for training activities to enhance Aptitude and soft skills
Arranging group discussions and mock interviews
Arranging Expert / guest lecturers of Industry personnel
Arranging Industrial training
And lastly arranging Campus placement of different industries
.

The following services are provided in the career guidance and placement.

Information of job Opportunities:
The students are informed regarding the vacancies offered by government and other agencies. The notice of the advertisements is put up on the notice board at training and placement cell as well as at every Department. Updated information is also made available on Institute website. The students are informed regarding all necessary information and important dates for such vacancies.

Discussion of Exam Module & Preparation of the Exam:
The training and placement cell organizes lectures on career opportunities. Interactions are conducted between the training and placement personnel/ invited experts and the students to brief them about exam module and pattern, the syllabus, and the methodology of attempting the paper. Mock tests are held to facilitate them in this pursuit. Their performance is analyzed after every test and then a brain storming session is organized to assess their strengths and weaknesses.

Soft Skills Training Areas:
Soft skill training areas include, Positive Attitude Development, Goal setting, Leadership, Decision making, Team building, Communication skills, Mock Interviews, Vocational Training

Follow up:
The placement cell keeps track of the post examination developments. As and when the result is declared, the cell informs the students regarding the result. The results are analyzed and then the next process of helping the successful candidates is taken up.

GDPI:
The Institute organizes sessions of Group Discussions and Mock Personal interviews for the candidates who have succeeded in the written test. The drilling exercise takes place till the candidate is totally confident regarding his performance for the final interview.

Structured Mechanism For Career Guidance And Placement (2013-14)

Principal
Dr. V. V. Karjinni

Head- Training & Placements
Dr. R. B. Heddur

PRODUCTION	MECHANICAL	ENVIRONEMENTAL	CIVIL
Mr. S. M. Kadane	Mr. S. S. Shinde	Mr. B. C. Ingavale	Mr. S. S. Varur

CSE	IT	ELECTRONICS	EnTC	BIOTECHNOLOGY
Mrs. D. K. Jadhav	Mr. R. D. Gade	Mr. V. K. Desai	Mr. E. C. Patil	Mrs. A. A. Kulkarni & Mr. R. P. Karkare
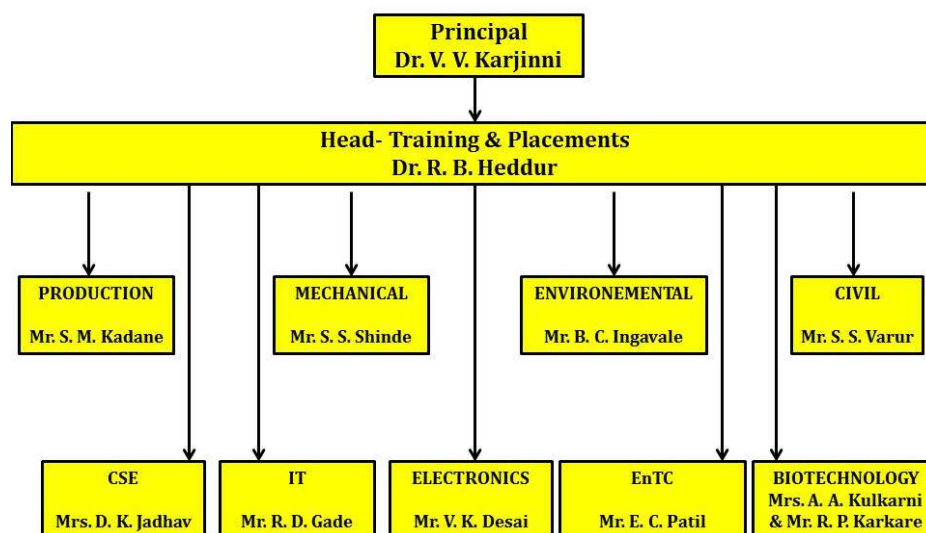
Campus Placement:

The placement cell of the Institute invites many reputed companies for campus recruitment. The students of the Institute are sent to off campus interviews also. The details of the placement are as under:

SN	Department Name	No. of Students Placed/Qualified			
		2010-11	2011-12	2012-13	2013-14
1	Biotechnology	8	3	7	20
2	Civil	45	11	5	2
3	Environment	12	3	9	5
4	CSE	13	31	18	36
5	IT	21	24	17	12
6	Electronics	24	29	25	20
7	E and TC	37	37	32	19
8	Production	26	29	3	4
9	Mechanical	16	32	19	28
	TOTAL	**202**	**199**	**135**	**146**

List of the Employers	
Company Name	**Company Name**
A.S. Moloobhoy & Sons	KPIT Cummins Ltd., Pune
Abhay Cotex Pvt. Ltd.	KPIT Technologies, Pune
Acty System Pvt. Ltd. Pune	Krishna Consultants, Pune
ADP, Pune	L & T Infotech, Mumbai
Ambay Valley, Sahara Group, Pune	Life Cell Tech Pune
Amdocs	Maharashtra Posco Steel
Anu Solar	Mailhem Engineers Pvt. Ltd. Pune
Auric Techno Services Ltd Pune	Manugraph India Ltd., Kolhapur
B.E. Billimoria Constructions	Menon & Menon, Kolhapur
Bosch India Ltd	Mindtree
Bridgestone Pvt.Ltd	MWH Global Ltd Pune
C. V. Kand Consultants, Pune	Naissance India
Cooper Cooperation Pvt. Ltd.,Satara	NJS Consultants Pvt Ltd Pune
Cryobanks Int. Ltd. , Mumbai	Omics
Cummins	Omisys IT & Telecom Sol. Pvt. Ltd.
D. D. Enterprises Pune	OmniActive Ltd. Thane

DbCom System Software Pvt. Ltd	Paramatrix Tech. Pvt Ltd
Dhirubhai Ambani Life Sciences Center.	Patni Computers, Pune
ELCOME Marine services, Mumbai	Patni Systems Ltd., Pune
Elecome Marine Services, Mumbai	PEOL
EZEST	Persistent Systems Ltd Pune
FastTrack	Piaggio
Faurecia Technology Center India Pvt. Ltd,	Point 8020
Fermenta Biotech Thane	Premier Biosoft Indore
FISERV Pvt Ltd	Primove Infrastructure Pvt Ltd Pune
Gauri Technologies	Ramakrishna I.T. Solutions Pvt Ltd
Ghatge Patil Ind. Ltd., Kolhapur	Reliance Life Sciences Ltd. Mumbai
Godrej Boyce Ltd Mumbai	Rubicon Design Tech, Pune
Hoonar Techworks Pune	Seed
HSBC, Pune	Shri Ram Transport Finance
I GATE	Sweep Enviro Pvt Ltd Mumbai
IBM	Synergy Engg & Environmental Solutions, Thane
ICICI, Pune	Syntel
IGATE PATNI	TATA Consultancy Services
IL & FS	Tata Technolgies Ltd.,Pune
Impact Infotech Ltd.	Tech Mahindra Ltd.
Indian Navy	Technimont Pvt. Ltd.
Intelligroup	Technimout ICB, Mumbai
IVRCL Pvt. Ltd.	Thyrocare Tech Ltd. Mumbai
JADE Global	Thysson Krup
John Deere	Trans Engineers India Pvt. Ltd.
Joshi Jampala Engineering Pvt. Ltd	Transparent Energy Pvt. Ltd, Pune
JSW Steel, Billary	Transparent Energy Systems Ltd.
K.P.I.T. Cummins	Trivenigroup, Bangalore
KAY BOUVET-Satara	UNISAFE
Kay-Bouvet	Unity Infrastructure
KEC International, Mumbai	Videocon, Aurangabad
Kirloskar	Walchandnagar Ind. Ltd. Walchandnagar
Kirloskar Ebara	Webonise Software Sol.
Kirloskar Brothers Ltd, Kirloskarwadi	Wipro

Kirloskar Group, Pune	Zensar Technologies
Kolate- Patil Constructions, Pune	

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

With reference to AICTE letter No. 1-101/DPG/ AICTE/ ombudsman/2012 Dt 9th July 2012, Institute has constituted "Grievance Redressal Committee"

Committee addresses various complaints of students like admission process, admission documents, refund of fees on withdrawal of admissions etc.

Suggestion Box:

Institute keeps suggestion boxes at various places within institute so that stake holders put their comments, suggestions, and requests without directly meeting to the authorities. Suggestions or complaints or feedback given on plain provides greater opportunity to serve stake hold better

SN	Year	Grievances Reported	Grievances Redressed
1		Students reported less no. of books in Book Bank	New books were purchased & Book Bank was expanded
2	2010-11	Gymnasium equipment is not working properly	Letter forwarded to Physical director to call person for overhauling of equipment's.
3		Water cooler and Aqua guard is not working in boys hostel	It was repaired under AMC
4	2011-12	No hot water at morning in boys hostel	Electrician called to repair auxiliary heating coil
5		No reading room facility was available after working hours & during exam period	Reading room facility was extended before & during the examinations
6	2012-13	Mosquito problem due grass grown around the boys hostel	Letter was forwarded to C and M cell. Insecticides were sprayed.
7		Students reported less no. of books related to general reading & competitive exams	New books were purchased & reference section of library was strengthened.
8	2013-14	Hot water system of ladies hostel is insufficient	The requirement is put forth to the management.
9		Students reported that new water purifier is necessary in ladies hostel.	Two new aqua guards are installed
10		Wi-Fi of boys hostel is not working	Letter was forwarded to I.T. department and problem was solved

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

Internal Complaints Committee (Vishakha Committee) Activities:
The Sexual Anti-Harassment Committee formerly known as Vishakha Committee is reestablished as Internal Complaints Committee according to the Indian Pinal Code Act 2013 "Prevention Prohibition and Redressal Act" regarding the sexual Harassment of Women at Workplace in our Institute.

The members of the Internal Complaints Committee are as follows.

1. Mrs. Manasi Dixit, (Assoc. Prof. Elec. Dept.)   --Presiding Officer
2. Dr. D. J. Sathe, (Assoc. Prof. Chemistry Dept.)   --- Member
3. Mrs. Mamata Kalas, (Assoc. Prof. IT Department) --- Member
4. Mrs. Rucha Kamat (Librarian)   --- Member
5. Ms. Smita Kulkarni (Telephone Operator)   --- Member
6. Mrs. Manisha Amte Pawar   --- Legal Advisor
7. Mrs. Tanuja Shipurkar   --- NGO Member

Institution takes necessary steps if the incidents pertaining to sexual harassment require the intervention of the law. Till date no such case of sexual harassment has been reported in the 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?

The Institute has set up the anti-ragging committee. It comprises of the Head of the Institution (Presiding Officer) along with Hostel Rectors. The committee is formed as per norms laid down by Shivaji University, Kolhapur. Till date, no incident of ragging of any kind has been reported in the Institute.

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

The institution is working towards ensuring social justice through the various students' welfare schemes. The induction programme clearly presents the welfare schemes available to the students. The following welfare schemes are made available for the students.

Scholarships & Freeships:
Details about the scholarships, various free-ships are displayed on the notice board of the institution. The class teacher guides the students to be the beneficiaries of the various welfare schemes. Similarly scholarships received from various central, state government and other agencies are made available to the students. Institute has student welfare fund through which needy students and in case of medical emergency, economically weaker students are supported.

Bank Services:

In collaboration with the PMC (Punjab & Maharashtra Co-operative Bank Ltd), the institution assists all the students in opening an account with zero deposit. It empowers students to make transactions through the bank in the globalized world. The bank also provides educational loans.

Counseling & Placement Service:

The placement cell extends its service to the students in career guidance, organizes lectures concerning career planning and invites companies for campus recruitment.

Health Services:

The health centre in the institution takes care of the basic health problems of the students. The Institute has made arrangements of a part time doctor. He is available in the hostel.

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?

'Yes',   Reg No: MH / 20775 / KOP

Membership to the alumni association is free. Members of the Association regularly meet and interact with the management and faculty. It is the flag bearer of the developments in the Institute. The association helps rejuvenate the memories of the Institute, and form a network of Alumni. Today it is the backbone of the institution.

Alumni Association is composed of 8 members:

Chairman, Vice Chairman, Secretary, Joint Secretary, Treasurer & Three Members

The office bearers are

1. Chairman   :   Mr. Sajid Hudli
2. Vice Chairman: Mr. Sunil Kulkarni
3. Secretary   :   Mr. R.A. Nikam

In addition, Alumni has cells operational at major cities of the Country namely

Kolhapur, Mumbai, Pune, Bangalore, Delhi and Hyderabad

Association conducts meets at Institute level and at Department level. Alumni association celebrated Silver Jubilee of the Institute in year 2007.

Activities & major contributions of Alumni are:

Placement activities, Conduct career guidance program for 12th standard Science students

Invited as Resource persons on areas of their expertise

Work as Examiners for practical examinations/Project evaluation

Participation in organizing events

Sponsorships for conferences / Student competitions

Participation in curriculum Development

Work as Judge for National Contests organized at the Institute.

Render Industrial Training & arranges visits to their industries.

5.2   Student Progression

5.2.1   Providing the percentage of students progressing to higher education or employment (for the last four batches) highlights the trends observed.
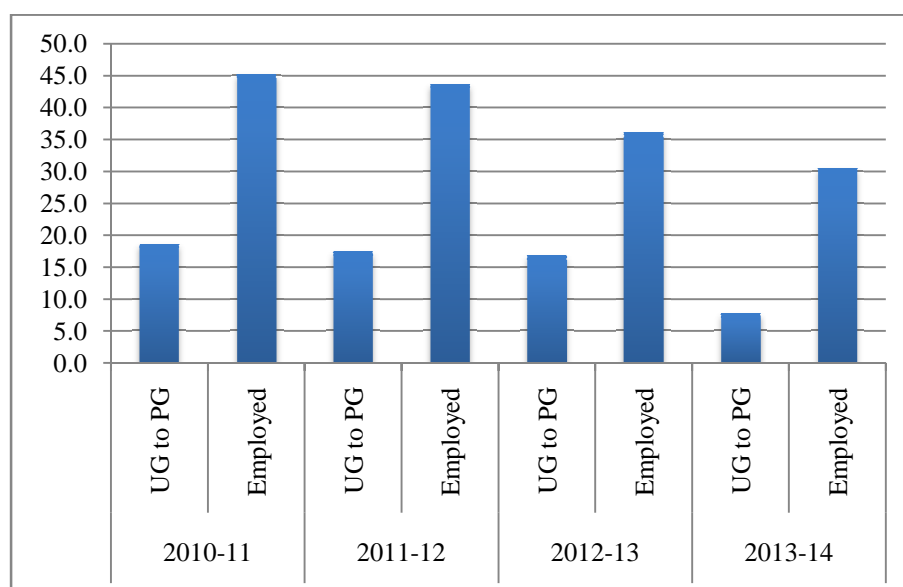
The trend of students opting for employment and higher studies has been quite steady, with an average of 40-50% students opting for employment and 15-20% of students opting for higher studies

5.2.2   Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Institutes of the affiliating university within the city/district.

Given in the table below is the graphical representation of result analysis of KIT Institute of Engg., DY Patil Institute of Engg., Kolhapur and Bharthi Vidyapeeth Institute of Engg., Kolhapur.

(Result Analysis of year 2013-14 are awaited)
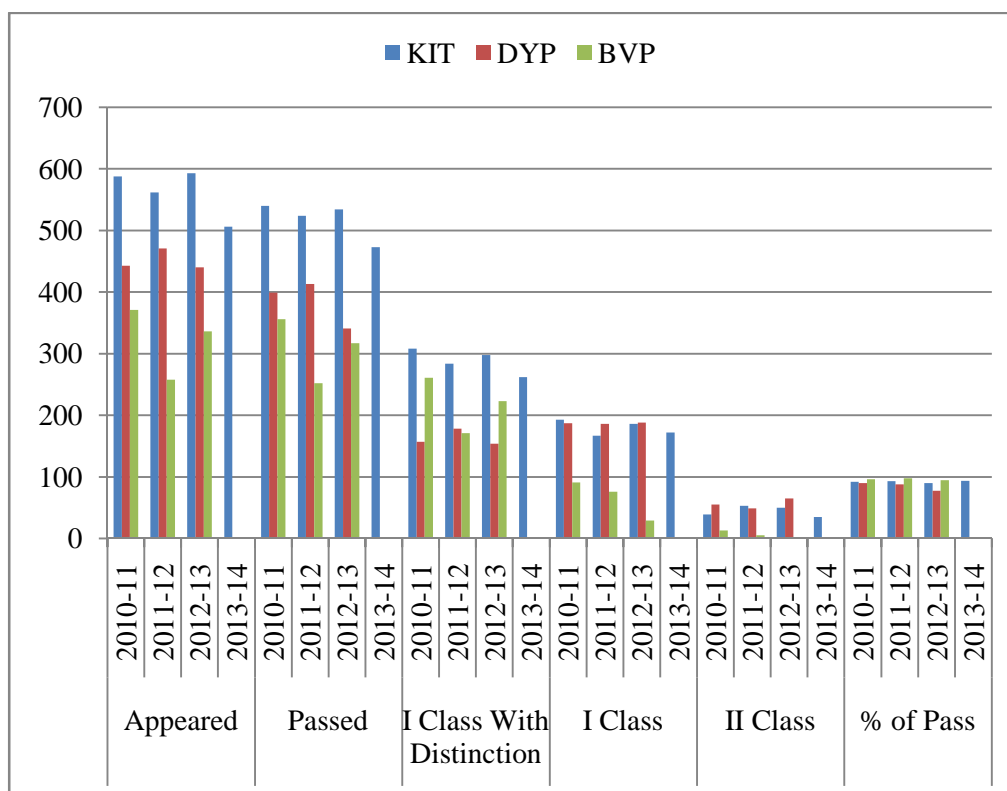
5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

T&P cell as well as the Departments arranges awareness activities for T.E. students twice in a year and coaching-training programs for interested students on preparation for GATE, GRE. etc.

The students who are placed share their preparations for interviews with students of junior classes.

The graduates who have been selected through MPSC/GATE/GRE also are invited to interact with students.

Departments conduct alumni / parent meets to invite suggestions and share the efforts from institute to optimize opportunities for Jobs and higher education.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The cases are identified via Mentoring mechanism and Departmental academic monitoring cell consisting of HOD, Dept Academic coordinator and Class teachers addresses the individuals.

Parents are informed about the performance of their ward and they are invited with the student to discuss the reasons and best possible solutions.

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.

Students participate in various Sports & Games and win medals.

Indoor Games: Chess, Badminton, Table Tennis, Carom
Outdoor Games: Basketball, Lawn Tennis, Cricket, Mal Khamb, Football, Archery, Volleyball, Swimming and Kho-Kho.

2010-11				
SN	**Game**	**Level**	**Participants**	**Prizes/Ranking**
1	Chess	Zonal	5	--
2	Table Tennis	Zonal	Men Team	Stood 2nd
			Women Team	Stood 2nd
3	Basketball	Zonal	Men Team	Stood 2nd
		Interzonal	Men Team	--
			Women Team	--
4	Volleyball		Men Team	--
			Women Team	---
5	Tennis	Interzonal		--
6	Kabbadi		Men Team	--
7	Cricket		Men Team	--
8	Badminton	Zonal	Men Team	Stood 3rd
			Women Team	Stood 1st
9	Hockey	Zonal	Men Team	--

2011-12				
SN	Game	Level	Participants	Prizes/Ranking
1	Malkambh	Inter zonal	01	Stood 2nd
2	Chess	Zonal	Men Team	Stood 1st
3	Tennis	Inter zonal	Men Team	Stood 1st
4	Table Tennis	Zonal	Men Team	Stood 2nd
5	Badminton	Zonal	Men Team	Stood 2nd

		Inter zonal	Men Team	Stood 2nd
6	Basket Ball	Zonal	Men Team	Stood 3rd
7	Football	State Level	Men Team	Stood 2nd

2012-13				
SN	**Game**	**Level**	**Participants**	**Prizes/Ranking**
1	Malkambh	Inter zonal	01	Stood 2nd
2	Chess	Zonal	Men Team	Stood 2nd
		Lead	Men Team	Stood 1st
			Women Team	Stood 1st
3	Tennis	Inter zonal	Men Team	Stood 1st
4	Swimming	Zonal	02	
5	Table Tennis	Zonal	Women Team	Stood 3rd
		Lead	Men Team	Stood 2nd
6	Badminton	Zonal	Men Team	Stood 2nd
			Women Team	Stood 1st
		Inter zonal	Men Team	Stood 3rd
		Lead	Men Team	Stood 2nd
			Women Team	Stood 1st
7	Basket Ball	Zonal	Men Team	Stood 2nd
		Inter zonal	Men Team	--
		Lead	Men Team	Stood 2nd
8	Football	Lead	Men Team	--
9	Fencing	Inter zonal	01	--

2013-14				
SN	Game	Level	Participants	Prizes/Ranking
1	Chess	Zonal	Men Team	Stood 1st
			Womens Team	Stood 2nd
2	Tennis	Inter zonal	Men Team	Stood 1st
			Womens Team	Stood 1st
3	Swimming	Zonal	Men Team- 02	---
		Lead	Women Team	Stood 1st& 2nd
4	Badminton	Zonal	Men Team	Stood 2nd
			Women Team	Stood 1st
		Inter Zone	Men Team	Stood 2nd
			Women Team	Stood 1st
		Lead	Men Team	Stood 1st
			Women Team	Stood 1st
5	Table Tennis	Zonal	Men Team	Stood 2nd

		Inter Zone	Men Team	Stood 3rd
		Lead	Women Team	Stood 2nd
6	Basket Ball	Zonal	Men Team	Stood 2nd
		Inter Zone	Men Team	Stood 2nd
		State Level	Men Team	Stood 1st
7	Football	Zonal	Men Team	---
		Lead	Men Team	Stood 1st
8	Cricket	Zonal	Men Team	---
9	Hockey	--	03	
10	Archery	Inter zonal	01	Stood 2nd

SPORTS CALENDER FOR SEMESTER I, 2013-2014									
Week No.	Month	**Week Days**							Events/Activities
		MON	TUE	WED	THU	FRI	SAT	SUN	
1	JULY	1	2	3	4	5	6	7	19 to 31 : scope , Importance & career in Sports - for FE Students
2		8	9	10	11	12	13	14	Deta collection from Office & ERP
3		15	16	17	18	19	20	21	
4		22	23	24	25	26	27	28	Start from 24.Foot Ball Practice on Institute Ground , after Institute hours.
5		29	30	31					
5	AUGUST				1	2	3	4	3. Zonal first meeting,4.time table display on Notice board. From 6. select teams verious Games.
6		5	6	7	8	9	10	11	
7		12	13	14	15	16	17	18	15 : Independence Day
8		19	20	21	22	23	24	25	
9		26	27	28	29	30	31		
9	SEPT.							1	
10		2	3	4	5	6	7	8	10,11 Tennis (M&W) Comp.
11		9	10	11	12	13	14	15	13 : Annual Chess Competition 15 : Annual Competition Basket Ball
12		16	17	18	19	20	21	22	16 : Annual Competition Basket Ball
13		23	24	25	26	27	28	29	Women Cricket
14	OCT.		1	2	3	4	5	6	
15		7	8	9	10	11	12	13	7 : Carom Annual Competition
16		14	15	16	17	18	19	20	13: Volley Ball Annual Competition 14to16 Gymnastics &Mallkhamb Comp.
17		21	22	23	24	25	26	27	19-20 Interzone Badminton
18		28	29	30					29 - 30 Athletics Interzone
ANNUAL COMPETITION			PRE PRACTICE			ZONAL & INTERZONAL COMPETITION			

Week No.	Month	Week Days							Events/Activities
		MON	TUE	WED	THU	FRI	SAT	SUN	
1	JAN.			1	2	3	4	5	
2		6	7	8	9	10	11	12	
3		13	14	15	16	17	18	19	
4		20	21	22	23	24	25	26	27- Chess
5		27	28	29	30	31			
5	FEBRUARY						1	2	1-25 Cricket & Basketball Matches
6		3	4	5	6	7	8	9	
7		10	11	12	13	14	15	16	24 - Badminton and Table Tenis
8		17	18	19	20	21	22	23	9 -10 Carrom
9		24	25	26	27	28			11-16 Volleyball
10	MARCH						1	2	28 Feb.-1 FOOT BALL LEAD INSTITUTE
11		3	4	5	6	7	8	9	2 - 10 Football
12		10	11	12	13	14	15	16	13-14 ATHLETICS LEAD INSTITUTE
13		17	18	19	20	21	22	23	
14		24	25	26	27	28	29	30	
15		31							
16	APRIL		1	2	3	4	5	6	
17		7	8	9	10	11	12	13	
18		14	15	16	17	18	19	20	
19		21	22	23	24	25	26	27	
20		28	29	30					
TEST				HOLYDAYS				LEAD INSTITUTE COMPETITION	

SPORTS CALENDER FOR SEMESTER II , 2013-2014

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.

Various teams of the Institute participate in different extracurricular sports and cultural activities and bring in laurels to the Institute. Following is the list of detailed achievements in every respect.

Year	Achievement Activity	Level	Students Participation	Prizes Won
2010-11	Co-Curricular	University/Zonal	22	12
		State	11	10
		National/International	42	26

Year	Achievement Activity	Level	Students Participation	Prizes Won
	Extra-Curricular	University/Zonal	8	4
		State	16	12
		National/International	14	10
	Cultural Activities	University/Zonal	15	5
		State	2	0
		National/International	0	0
2011-12	Co-Curricular	University/Zonal	28	31
		State	11	10
		National/International	42	27
	Extra-Curricular	University/Zonal	8	4
		State	16	12
		National/International	14	10
	Cultural Activities	University/Zonal	15	6
		State	2	0
		National/International	0	0
2012-13	Co-Curricular	University/Zonal	53	50
		State	7	4
		National/International	68	44
	Extra-Curricular	University/Zonal	37	30
		State	2	0
		National/International	16	5
	Cultural Activities	University/Zonal	24	18
		State	3	1
		National/International	5	1
2013-14	Co-Curricular	University/Zonal	21	28
		State	6	2
		National/International	42	26
	Extra-Curricular	University/Zonal	15	12
		State	0	0
		National/International	29	4
	Cultural Activities	University/Zonal	4	0
		State	0	0
		National/International	0	0

5.3.3 How does the Institute seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

Institute collects feedback from the Employers in the prescribed form during Campus Interviews, Formal Meetings and from Alumni during Alumni Meets conducted departmentally, Formal & Informal Meetings, Expert & Guidance Lectures etc. Feedbacks contains information regarding institutional provisions about Quality of Students, Student's Performance in Interview, Curriculum Improvement etc

The feedback helps in designing the training modules prepared by T & P cell for the current students. Employers and alumni give valid suggestions on curriculum development as well as infrastructure facilities.

5.3.4 How does the Institute involve and encourage students to publish materials like catalogues, wall magazines, Institute magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

KIT Technique:

The Institute publishes its yearly magazine, named "TECHNIQUE". Technique is a space or stage to showcase students' creativity. Students submit their material like Articles (Research, Literary), Stories, Poetry, Paintings, and Photography etc. Editorial Board of Technique selects the material to publish. Every Year Institute participates in Shivaji University Magazine Competition. The students of the Institute have been winning many prizes in various categories. In year 2012-13, KIT magazine Technique bagged 2nd prize with 11 individual prizes in Shivaji University Magazine Competition.

Prizes Won in Shivaji University Magazine Competition-2012

SN	Name of the Student	Prize	Genera
1	Gandhali Joshi	2nd	Marathi Biography
2	Sagar Hiwale Karuna Jamdade	1st	Marathi Interview
3	Omkar Hawal	2nd	Marathi Informative
4	Kiran Sathe	2nd	English Biography
5	Devendra Gokhale	1st	English Travelogue
6	Guruprasad Chavan	1st	Color Picture
7	Rajesh Bongade	2nd	Pencil Sketch
8	Rohit Patankar	1st	Research Article
9	Saurabh Joshi	1st	Research Article

Prizes Won in Shivaji University Magazine Competition-2013

SN	Name of the Student	Prizes	Genera
1	Priyanka Patil	1st	Marathi Poetry
2	Shrenik Shirgave	2nd	Marathi One-Act Play
3	Satish Gurav	3rd	Marathi Litarary
4	Ramdas Patil	2nd	Marathi Autobiography
5	Nahush Kawadkar	3rd	Hindi Biography
6	Rutambhara Hardikar	2nd	Hindi Interview
7	Sidhant Sinha	3rd	Hindi Thought Provoking
8	Akshay Kulkarni	2nd	Science Informative
9	Sameer More	2nd	Science Informative
10	Suraj Sawant	3rd	Science Informative
11	Kailash Tikku	1st	Hindi Poetry

The Fine and Literary Art Club of K.I.T Institute (AURA):

The club aims to produce best of art combining concepts of arts and intellect of Engineering. Various forms of Arts like drawing, sketching, painting cartooning, writing (scripts, poems, columns, interviews, etc.) reporting, photography, film making, rangoli, are encouraged by the club. There is an Art exhibition every year during Annual Social Gathering since last three years.

Two film "*ASTITVA*" was made by members of club under the direction of Anuj Jamdagni during 2012-13, and "*MANASVI*" under Kaustub Deshpande during 2013-14.

Distinguished Students Publications:

Student Vinayak Pachlag is an acclaimed writer in Marathi and is regular columnist for various daily newspapers such as Maharashtra Times, Lokmat, Sakal etc. His column "Dil, Dosti, Dimag" in Sakal was much appreciated in 2012. He has written a column on Culture in daily Maharashtra Times for year 2013, and in daily Lokmat on "Innovation". His book "Confusion, Communication, Conviction" was published on 11th April 2014. The book focuses on various youth issues & his personal experiences in diverse fields of radio jockey to event management.

5.3.5 Does the Institute have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes Institute has Student Council.
Till last year the selection process was to collect the forms from eligible students (Eligibility criteria is that the student should have cleared all the subjects of previous year) and interviewed for the respective post.
Constitution

1) Principal

2) Principal nominated faculty (Student Council Faculty Coordinator)
3) Physical Director
4) NSS Program Officer
5) Three Academic Toppers (F.E., S.E., T.E.)
6) Cultural Student Coordinator
7) Sports Student Coordinator
8) NSS Coordinator
9) NCC Student Coordinator (If applicable)
10) Principal nominated two Ladies Representatives
(Out of No. 6, 7, 8, 9, and 10 - any two seats are of reserved category)

Funding

There is no funding from any Govt. body. Institute bares all the expenses.

Activities

The Students' Council organizes many activities through its representative's viz. Sports Coordinator, Cultural Coordinator & NSS Coordinator.

Cultural Achievement during 2010-11

SN	Event Name	Sub-Event Details	Level	Achievements
1	District Youth Festival by Bhogawati Mahavidyalay, Kurukali	Quiz Competition	District	1st
2		English Elocution		1st
3	Central Youth Festival by Vivekanand Institute, Kolhapur and Shivaji University, Kolhapur	On the Spot Painting	University	3rd
4		Cartooning		3rd
5		Quiz Competition		1st
6		English Elocution		3rd
7	Yuvak Mahotsav by Warana Institute, Walawa	One Act Play Competition	State Level	2nd
8	Purushottam Karandakby Late. Pushkraj Foundation, Kolhapur	One Act Play Competition	State Level	Participation
9	Bharatiyam Karandak by Bhartiyam Kala Academy, Pune	One Act Play Competition	State Level	Best Actor- 1st, Best Singer-1st, Best Painter-1st, Best Lights-1st
10	Model United Nation's Assembly, MUNA-2011			Participation
11	Young Tarang by Creative Mind Group, Kolhapur	Budget Shopping	An Inter Institute Championship	1st
12		Banner Painting		2nd
13		Pot Painting		3rd

Cultural Achievement during 2011-12

SN	Event Name	Sub-Event Details	Level	Achievements
1	Swatantryache Nave Parv, KIT's Institute of Engineering, Kolhapur	A Slide Show	University	Participation
2	Script Reading Competition by Gayan Samaj Deval Club, Kolhapur		Inter Institute	Best Music- 1st Best Director-3rd Best Reader-3rd Best One Act Play-3rd
3	District Youth Festival, Shivaji University, Kolhapur	English Elocution	District	1st
4		Hindi Elocution		3rd
5		Group Song		2nd
6	Central Youth Festival by Shivaji University, Kolhapur	English Elocution	District	1st
7		Hindi Elocution		2nd
8	Sakal Karandak by Sakal Media Group, Kolhapur	One Act Play Competition	State Level Inter Institute	Best Actor-1st Best Director-2nd Best One Act Play-2nd
9	Yuvaspandan by Manoranjan Mandal, Ichalkaranji	Quiz Competition	State Level Youth Festival	2nd
10	Bhartiyam Karandak by Bharatiyam Kala Academy, Pune	One Act Play	State Level Cultural Fest	Best Director-1st
11	RajyaNatya by Latur Festival, Latur	One Act Play	State Level	Best Lights-1st

Cultural Achievement during 2012-13

SN	Event Name	Sub-Event Details	Level	Participation/ Achievements
1	Central Youth Festival by Shivaji University, Kolhapur	Western Light Vocal	District Level	3rd Prize
2		Classical Instrumental		2nd Prize
3		Classical Instrumental		1st Prize
4		Classical Instrumental		1st Prize
5		Quiz		1st Prize
6		Quiz		1st Prize
7		Classical Instrumental		2nd Prize
1	District Youth Festival by Shivaji University,	One Act	District Level	Participation
2		Skit		Participation

3	Kolhapur	Mime		Participation
4		Street Play		Participation
5		Group Dance		Participation
6		Orchestra		Participation
7		Group Song		Participation
8		Debate		Participation
9		Quiz		Participation
10		Elocution		Participation
11		SugamGayan		Participation

Cultural Achievement during 2013-14

SN	Event Name	Sub-Event Details	Level	Achievements
1	Prabodhan Karandak by Yuva-Sena Manch, Kolhpur	One Act Play Competition	State Level	Best Actress Consolation Prize
2	Purushottam Karandak by Gayan Samaj Deval Club, Kolhapur	One Act Play Competition	State Level	Best Actress Consolation Prize
3	District Youth Festival by Shivaji University, Kolhapur	English Elocution	District Level	2nd Prize
4	Central Youth Festival by Shivaji University, Kolhapur		District Level	General Championship-1st
5	Central Youth Festival by Shivaji	Western Solo Singing	District Level	1st Prize
6		Cartooning		1st Prize
7		Photography		1st Prize
8	University, Kolhapur	Classical Dance		2nd Prize
9		Collage		3rd Prize
10	Act-Impact by KIT's Institute of Engineering, Kolhapur	Street Play Competition	National Level	1st Prize
11	Spartans-AGON, Inter Institute Fest held at Kolhapur		Inter Institute	General Championship-3rd
12		Photography	Inter Institute	1st Prize
13		Miss. Spartans		1st Prize
14	Spartans-AGON, Inter Institute Fest held at Kolhapur	Loud Words		2nd Prize
15		Street Play Competition		2nd Prize
16		Group Discussion		3rd Prize

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

- Student Council
- ISTE Student Chapter
- Anti ragging Committee
- Hostel committee
- NSS (National Service Scheme)
- Departmental Students Associations of each Department
- Technical student associations like SAE, ISHRAE, IEEE

- Gaganvedhi
- Aura
- Walk With World (WWW)

5.3.7   **How does the institution network and collaborate with the Alumni and former faculty of the Institution.**

Institute has registered alumni association with Chairman, Vice Chairman, Secretary and Members. Kolhapur local chapters as well as chapters at cities like Pune, Mumbai, Bangalore, Hyderabad and Delhi have been started. Alumni meetings are conducted departmentally in the Institute and sometimes in other cities.

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 be the Centre of Excellence in Technical Education and preferred choice of Students, Faculty, Industry and Society

Mission:

- To empower the Faculty, Staff and aspiring Engineers with essential technical knowledge and skills
- To develop competence towards serving the ever changing needs of Industry and Society
- To inculcate Social and Ethical values amongst the Students and Employees
- To strengthen collaborative research and consulting environment with industry and other institutions

The distinctive characteristics of the Institute are defined in the mission as follows-

Referring to the second statement under 'Mission', for addressing needs of the society and the students, the faculty is sponsored to visit industries and research centers to update themselves on these issues.

The Institute follows some cultural traditions (e.g. Ganeshotsav), annual social gathering and academic traditions (e.g. continuous assessment scheme, student mentoring, PIONEER- a technical event). The Institute organizes spiritual programs and programs based on social issues periodically (such as blood donation camps) for value orientation of the students and staff. These activities are in accordance with the third statement under 'Mission'.

The institute is a pioneer to introduce certain degree programs and technical programs, for example, degree course in Environmental Engineering, degree course in Biotechnology Engineering, certificate course in VLSI Design etc. First and second statements under Mission are included to work directly towards achievement of vision.

6.1.2   What is the role of top management and faculty in the design and implementation of its quality policy and plans?

The quality policy of the Institute is well conveyed from the Vision and Mission statements which have been designed by the Top Management and faculty.

For implementing the quality policy, an action plan is prepared collectively by the Principal and the Heads of Departments. According to the action plan, specific roles are assigned to various faculty members.

Role of the Top Management (KIT Trust):

- Four Committees are formed within the Top Management: Finance Committee, Building Committee, Staff Committee and Equipment Committee.

- Decisions in each of these four areas are taken by the respective committees adhering to the action plan (work plan).

- The Finance Committee of the Management provides budget for each required item as per the quality policy. For example, budget for the new infrastructure, for maintenance and improvement of infrastructure for faculty recruitment and developments, for teaching-learning process, for research etc.

- The Management regularly interacts with the Principal to review the implementation process of the quality plans.

- The Management committees regularly take overview of various academic functions, administrative functions and other functions ongoing in the entire organization. It randomly checks sample activities.

- The Management bestows operational autonomy to the staff within the boundaries of quality policy.

- The Management encourages the Principal and the faculty to visit renowned national and international institutes to develop their vision for quality policy.

- The Management ensures a healthy, encouraging, participative and transparent environment needed for quality education.

- The Management considers the suggestions/interaction with various governing bodies like Board of Governors, Local Management Committee etc. positively.

- The   Management's meetings with HoDs and Deans are conducted once in two months for the review of action plan and major policy decisions.

Role of the Principal:

- The Principal is an active member in deciding the quality policy and making the action plans.

- While the action plan is being implemented within the Institute, the Principal leads the faculty, provides directions to the faculty and co-ordinates them wherever necessary. During the implementation of the quality policy, the Principal communicates the opinions of the Top Management to the faculty and staff regarding the responsibilities and duties assigned to each component of the college.

- The Principal intends to develop and ensure effective conduction of educational programs and promotes the improvement of teaching-learning in the college. The Principal strives to create a climate which fosters development of the students and faculty.

- For executing activities in accordance with quality policy, the Principal constitutes various committees. Difficulties faced by staff members during the execution are sorted out in the meetings with the Principal and/or the Top Management.

- The Principal contributes to develop the means and tools for measuring the quality through the Internal Quality Assurance Committee (IQAC).

- The Principal takes initiatives to develop the liaison with the eminent academicians, scientists, industries, professional bodies and renowned institutes which directly or indirectly helps in planning and implementing the quality policy.

- The Principal keeps himself updated about the Indian and global education scenario, research in education, industry and stake-holders' expectations. He gives relevant feedback to the faculty and the students and motivates them to achieve quality in their fields.

- The Principal along with faculty initiates orientation, QIP and other programs for quality improvement.

- The Principal proposes new initiatives to Top Management to strengthen to the quality policy.

Role of the Deans:

There are three Deans appointed in the Institute viz. Dean (Academic Activities) and Dean (Students Activities), Dean (Research and Development)

Role of the Dean (Academic Activities)

Dean (Academic Activities) is primarily responsible for ensuring that the academic activities of the college are being carried out to their fullest potential. His responsibilities cover the area of preparation of

Academic Calendar, implementation of Curriculum, Students Administration and Academic Infrastructure.

The duties comprise of the following :

- Co-ordinate and monitor the planning, organizing, and execution of the academic calendar

- Monitor and act to improve the punctuality and the attendance record of the students during lectures, laboratory work etc.

- View students' feedback on various courses and faculty in each semester and initiate necessary action, working with the Principal for the development of the faculty and organize tutorials for weaker students in courses where the success rate is low.

- Act to improve the students' results.

- Interact actively not only with students, but also with their parents on various issues as may be necessary from time to time.

- Ensure that the laboratories are not only adequately equipped but also facilitate conducting experiments beyond the University curriculum to cater to the industry requirements.

- Facilitate and encourage relevant and practical projects for the students to work upon.

- Ensure that the library resources are leveraged to the maximum possible extent; that the library stocks necessary books and journals so as to optimize the expenditure of the budget and that the library systems are continuously upgraded in terms of technology.

Role of Dean (Student Activities):

His/Her responsibilities include the areas of Students Performance and Activities as follows:

- Monitor and act to improve the punctuality and the attendance record of the students to guest lectures, co-curricular functions etc.

- Plan co-curricular activities(PIONEER, Department-wise programs)

- Plan extra-curricular activities (Annual Social gathering, Ganesh festival, Sports Events, etc.)

- Build a strong Alumni Network

- Ensure the day-to-day discipline of students on and off the campus.

- Develop the students' potential by scheduling and organizing classes in English language and personality development sessions, both within and beyond the University curriculum and ensure fullest utilization of faculty, language lab and other resources.

- Work towards a holistic development of the students through close, pro-active and continued interactions with students, by playing the role of close a confidante and guide of the students.

- Set up and coordinate the Local Chapters and Student Chapters of professional societies.

Role of the Dean (Research and Development):

His/her responsibilities include:

- To identify emergent technology related to the programs offered by the Institute.

- To motivate the faculty and students for research and to imbibe research culture in the Institute.

- To organize conferences, workshops, seminars and symposia to address the latest technological trends, developments and research.

- To identify the specialization and research area of faculty.

- To identify thrust areas considering the individual research interest and focus on development of the facilities and infrastructure accordingly.

- To create the awareness about various funding schemes of Government, AICTE, UGC, DST and other research organizations and motivate the faculty to apply for the research funding with good proposals.

- To prepare research policies and budget required for these policies of the Institute.

- To organize the visit of faculty and students to research organizations and National Laboratories.

- To motivate the faculty to pursue higher studies; especially Ph.D. and Post Doctoral research.

- To create the awareness about patent, innovations and Intellectual Property Rights (IPR) among the faculty and students.

- To encourage the consultancy in related areas.

- To have liaison with professional societies which include ISHRAE, SAE, IEEE, IETE, ASME, IIPE, CMTI, CSI etc.

- To act to develop Research Infrastructure.

- To act towards development of skills of identification of research problems and documentation of related documents.

- To identify Community Projects and attempt to provide engineering solutions.

- To ensure signing of MoU's with research institutes and industries.

Role of Heads of Departments:

Head of the Department is a leader of the members of the Department. The responsibilities of the Head in the academic and administrative matters are as follows:

- Plan, organize and monitor execution of the academic activities according to the calendar.

- Monitor coverage of the syllabus to ensure that the coverage is steady and smooth.

- Observe and analyze faculty's teaching and provide them with necessary feedback for improving the effectiveness. Devise ways of improving the overall teaching effectiveness of the faculty and the quality of the courses taught in the Department.

- Ensure Departmental discipline of the students; punctuality in classes and other lectures and activities.

- Ensure that the Departmental laboratories and library are academically adequate, used optimally, kept clean, and run efficiently.

- Encourage, facilitate and bring about more industry sponsored projects to the Department.

- Encourage and facilitate the faculty to present research papers and publish research articles. Encourage and facilitate younger faculty for higher educational studies and their personal overall growth.

- Arrange field visits / industrial training and guest lectures by eminent personalities per semester.

- Organize International/National Seminar/Conference in the Department.

- Conduct Departmental Meetings regularly and also as per need for adequate interaction with the faculty and staff.

- Ensure that the Departmental spaces and assets are maintained in good condition and beyond curriculum, including periodic stock checking activity.

- Facilitate extra-curricular activities for students, faculty and staff for the overall growth of everybody and creating a team spirit.

Role of the faculty:

The faculty plays a major role in the implementation of the quality policy. All faculty 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 develop themselves as role models for the students and to upgrade themselves continuously. Senior faculty is a role model for the junior faculty. It is the faculty who embeds values in the education.

- To fulfill responsibilities in three areas namely teaching, research and administrative activities like examinations related and course / program related work. Faculty has to contribute in various committees formed by the Principal. Faculty has 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.

6.1.3 What is the involvement of leadership in:

- **Ensuring the policy statement and action plans for fulfillment of the stated mission.**

- **Formulation of action plans for all operations and incorporation of the scheme into the institutional strategic plan.**

- **Interaction with the stakeholders**

- **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders.**

- **Reinforcing the culture of excellence.**

- **Champion the organization change.**

  Following is the list of activities of the leadership showing its involvement in

  Ensuring the policy statement and action plans for fulfillment of the stated mission.

  Formulation of action plans for all operations and incorporation of the scheme into the institutional strategic plan.

  Interaction with the stakeholders.

  Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders.

- The leadership chooses staff with an aptitude towards understanding quality issues as members of various committees for designing and implementing the quality policy.

- The leadership processes feedback, guidance, and opinions from experts / stakeholders wherever necessary.

- The leadership holds sufficient discussions and allows for refinement / modification in the action plans.

- The leadership also plays the role of mediator and coordinator between the external and internal members contributing to this process.

- While formulating the policy statements and action plans, sufficient attention is paid to the following aspects:

    -The academic terms, phases of teaching and examination programs are properly planned to meet the academic demands.

    -Sports and cultural programs are planned and executed as per the rules and regulations of the University.

    -The Top Management conducts meetings with HoDs and Deans once in two months for the review of action plan and major policy decisions.

Following is the list of activities of the leadership showing its involvement in **reinforcing the culture of excellence**.

- The leadership appreciates the faculty / staff for academic achievements by arranging special programs or at the time of public programs.

- The leadership invites eminent academicians, scientists, industrialists and others to enlighten the staff on issues of the invitee's expertise.

- The leadership organizes orientation programs for teachers.

- The leadership organizes occasional meetings of the members of the Trust with the staff, to have a direct dialogue.

Following is the list of activities of the leadership showing its involvement in **championing the organization change.**

- The leadership has inculcated a sense of belonging towards the Institute among the staff.

- The leadership creates awareness among the staff and convinces them about the needed organizational changes. The leadership takes the staff into confidence before initiating the organizational changes.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The meetings of the Governing Council are conducted once in 6 months. In these meetings, developments and budgets are reviewed.

The Top Management's meetings are conducted periodically. In these meetings, policies and plans are decided and reviewed.

Meetings of the Building Committee, Finance Committee, Equipment Committee and Staff Committee are conducted frequently to monitor and evaluate activities in the respective area.

The Principal's meetings with HoDs and Deans are conducted every week to monitor all academic and student related activities.

Faculty meetings are conducted in every Department frequently to convey plans and instructions discussed in HoD meeting and initiate their implementation as well as take feedback about the plans being implemented.

6.1.5 Give the details of academic leadership provided to the faculty by top management.

Academic leadership is required for the Institute's progress towards achieving the vision, mission, goals and objectives.

From time to time, the Top Management has started new programs in engineering. Few of them are in a true sense 'the pioneering programs'.

The details are as follows-

- In 1983, the Institute started a degree program in Environmental Engineering and became the first and only institute in the state of Maharashtra to offer this program (till date).

- In 2002, the Institute started a certificate course in VLSI design structured by CDAC, Pune and became the first un-aided institute in the Southern Maharashtra region to acquire the status of authorized centre of ACT-CDAC.

- In 2002, the Institute started a degree course program in Biotechnology Engineering and became the first institute in the state of Maharashtra to establish this program.

- In 2004, the Institute started two PG programs, one M.E. (Mechanical-Production Engineering) and the other M.E. (Electronics and Telecommunication).

- In 2008, the Institute started two PG programs, first M.E. (Biochemical Engineering and Biotechnology) and another M.E. (CAD/CAM/CAE)

- According to the requirement of the stakeholders,

    - In 2007, the Institute has started a degree program in Electronics and Telecommunication.

    - In 2008, the Institute has increased the intake capacity of the degree program in Environmental Engineering by 30 seats.

- In 2011, the Institute increased the intake capacity of the degree course program in Civil Engineering and Mechanical Engineering from 60 seats to a total of 120 each.

6.1.6 How does the college groom leadership at various levels?

The Top Management aims at creating not just a few leaders but a leadership ladder i.e. leadership at various levels.

▪ To develop leadership skills, it encourages the staff to attend training programs.

▪ The Management also adopts the practical way of delegating responsibilities to a person to enhance the leadership capabilities. Following procedure is adapted for this purpose.

▪ Based on the performance of a faculty in academic work, feedback from students and senior faculty, the Top Management identifies the field of expertise of each faculty, his teaching skills and inter-personal skills. Based on these judgments, the Top Management provides different levels of leadership tasks and responsibilities to the faculty.

▪ The Management has created various leadership posts as listed below. These leaders have administrative responsibilities related to their posts.

Sr. No.	Committee/Activity	Coordinator	Department	Report to
1	Internal Quality Assurance Cell (Academic Committee)	V. K. Desai	Eln.	Principal
2	Accreditation (NBA, NAAC)	Dr. M.S. Chavan, Mrs. Mamata Kalas	Eln. IT	Principal
3	Internal Assessment Tests / SUK Examinations	S V. Kulkarni U. S. Bhapkar	Env. Mech.	Dean Acad
4	Central Library	G. R. Naik	Prod.	Dean Acad
5	Students' Feed Back on faculty	M. S. Salunkhe	CSE.	Dean Acad
6	Industry-Institute partnership	S.S. Mane	Mech.	Dean-RandD
7	Continuing Education Cell	A.R. Nigvekar	Eln.	Dean-RandD
8	Enterprise Resource Planning	G. V. Otari	CSE	Principal
9	Grievance Redressal Committee	S.V. Chavan-Patil	Maths	Principal
10	Staff Academy/Staff Welfare	Mrs. M. R. Dixit	Eln.	Principal
11	Computer Network	T. B. Patil S. B. Patil	I.T. CSE.	Principal

Sr. No.	Committee/Activity	Coordinator	Department	Report to
12	Hostel and Healthcare Boys' Hostel – Rector Girls' Hostel-Rector	A. M. Qureshi Dr. Mrs. T. S. Desai	Mech. Phy.	Principal
13	Annual Magazine	Pramod Patil	FE	Principal
14	Communication and Publicity	Pramod Patil	Prod.	Principal
15	Disaster Management Committee	Amar Katkar	Env.	Principal
16	Infrastructure Committee	S.S. Varur	Civil.	Principal
17	Alumni Association	S.B. Sangle	Prod.	Principal
18	Parent-Teacher Association.	All Heads of Dept.	All Depatments	Principal
19	Student Counseling/ mentoring	R A Nikam	Env.	Dean-Student activities
20	Faculty Advisor- ISTE Students' Chapter	P. P. Pawar	Prod.	Dean-Student activities
21	Students' Council	S. S. Mane	Civil	Dean-Student activities
22	Co curricular and Extracurricular activities	A. R. Thorvat	Civil	Dean-Student activities
23	National Social Service scheme (NSS)	A.S. Vaidya	Prod.	Dean-Student activities
24	Tech Fest	Atish Chavan Pranav Menthe	BioTech. I T	Dean-Student activities
25	Walk With World (WWW) (Sub event -Abighygan)	Dr. Heddur Dr.Mrs.Sanandam	Tand P BioTech	Dean-Student activities
26	Ignited Minds Movement (IMM)	Mrs. V.A. Swami S. B. Desai	Civil Mech	Dean-Student activities
27	Gagan Vedhi	V. K. Desai Dr Anup Kulkarni	BioTech Eln.	Dean-Student activities
28	Aura (Fine Arts - painting)	Pramod Jadhav	Env.	Dean-Student activities
29	Gymkhana	V. B. Rokade N S Desai	Mech	Dean-Student activities

Sr. No.	Committee/Activity	Coordinator	Department	Report to
30	IEEE Students' Chapter	Y. M. Patil	Eln.	Dean-Student activities
31	SAE Students' Chapter	U. S. Bhapkar	Mech.	Dean-Student activities
32	ISHRAE Students'Chapter	P. B. Mutalik	Mech.	Dean-Student activities
33	Research and Innovation	S. M. Pise Dr Anup Kulkarni Harshad Thakur	Mech. Biotech Prod.	Dean-R & D
34	Anti Ragging	H V Sadolikar Mrs. P S Saler	Civil Env.	Principal
35	Internal Complaints Redressal Committee (Formerly the Vishakha Samiti)	Mrs. M R Dixit	Eln	Principal
36	Techno Zeal	PranavMenthe Atish Chavan	IT Biotech	Dean-Student activities
37	Amateur Writer's Club	Pramod Patil	F.E.	Dean-Student activities
38	NOVUS-The Robotic Club of KIT	S. M. Kadane	Prod.	Dean-Student activities
39	Entrepreneurship Development Cell	N.S. Desai	Mech.	Dean-Student activities

(ii) The management motivates the faculty to conduct co-curricular activities like seminars, work shop, field tours, various projects, updating laboratories etc.

- It is believed that a role model inspires a person to follow the virtues/habits/work of the role model. Thus the role model serves the purpose of a leader for that person. Teaching is a noble job. The teacher is supposed to possess all noble qualities/value system. By inculcating social and ethical value in oneself, the teacher, can be a role model to the students. To foster this, the Top Management has distributed the mentoring work to entire faculty. Top Management assigns different faculty with different responsibilities in various co curricular and extracurricular activities every year.

- The Management ensures academic freedom to the faculty members in teaching process and research.

- The Management insists that all activities should be student oriented. Also it has declared a Quality Policy to which all the faculty members are required to adhere during the conduct of various activities.

- The Principal and the Management encourage transparency in decisions making and implementation. There is a scope for grievance redressal. Due to this policy and procedure, the leaders enjoy mutual confidence among themselves.

- The leaders are empowered with sufficient operational autonomy for effective execution of the tasks assigned to them.

- The institute promotes leadership among the students through student council, class representatives, Departmental Library Committees, hostel representatives, students associations and coordinators for different co curricular and extracurricular activities.

6.1.7   How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The Head of the Departments regularly conduct departmental meetings in which the important aspects of the requirements of the Departments such as equipment, laboratory materials, books, journals and others are discussed. This is brought to the notice of the Head of the Institution who in turn takes it up to the Management for further action.

Before the beginning or at the end of the academic year the Head of Departments' meeting for Annual Operation Plan (AOP) is convened by the management and requisition for budgetary provisions are collected. The management approves budget in Finance Committee and the Principal communicates to the Departments. Various functional committees are formed every year and their responsibilities and functions are earmarked. The conveners of these committees are responsible for its successful functioning. The quantum of work and the nature of committees' job are assigned to the staff concerned which is communicated to them. Thus, the college decentralizes the authority and provides operational autonomy to the committees. The HODs have been delegated the financial power to the tune of Rs. 15000/- to rectify emergency breakdown and for consumables.

6.1.8:   Does the college promote a culture of participative management?

YES

The college consistently promotes a culture of participative management. All the stake holders viz. Parents, Students, Faculty and Staff have representation on the various statutory and designated bodies. If for statutory reasons a particular group is not formally represented in these bodies, an informal mechanism ensures that it is not left out of the decision making process.

6.2   Strategy Development and Deployment

6.2.1   Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

The Institute's quality policy is well conveyed from its vision and mission statements. Strategic plan and action plan are designed in such a manner that this quality policy is driven and deployed during every process. Each process is regularly reviewed by a monitoring mechanism associated with each process.

Strategy to develop competences to serve the ever changing needs of the industry and society and strategy to empower the faculty, staff and aspiring engineers with essential technical knowledge and skills:

- Applying the innovative teaching learning methods such as Cooperative learning, Group discussions, Quiz, Seminars, Industrial Visits and Lab Demonstrations.

- Use of teaching aids such as Models, Video Films, Multimedia Presentations, NPTEL video lectures etc.

- Introduction of on line academic monitoring systems -Modular object oriented dynamic learning environment (MOODLE).

- Use of Enterprise Resource Planning (ERP) software to assess and regulate the academic process.

- Starting new courses, increasing intake strength of courses as per the need of time.

- Organizing orientation programs, courses related to the curriculum.

Strategy to strengthen collaborative research and consulting environment with industry and other institutes:

- Establishing research labs in departments imparting PG programs.

- Encouraging the faculty for research publications.

- Motivating the students for research by organizing paper and project competitions.

- Appreciating the research of students/ faculty.

- Forming MOUs with industries and other institutes.

Strategy to inculcate social and ethical values:

- Establishing NSS cell and organizing various social programs/ activities through this cell.

- Establishing community and ethical value based cells and organizing sensitization and awareness programs on various ethical issues through these cells.

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, 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 inclusion. The plans are reviewed periodically throughout the year.

Perspective plan about new infrastructures:

2011-12

- New building for the department of Electronics and Tele-communication.
- Expansion of the building for the department of production engineering and the department of mechanical engineering.
- Compound wall fencing (Barbed wire fencing).

2012-13

- Construction of Water Bound Macadam (WBM) roads for the main internal roads of college.

2013-14

- Expansion of the main building- Construction on the second floo.r

2014- 15

- Expansion of the canteen building.
- Renovation of the main office.
- Roofing of the Open Air Theatre.
- Arterial Roads from the well to the main building via Boys Hostel and non vehicular zone.

- Interior work of seminar hall for Production engineering / Mechanical Engineering Department.
- To increase the capacity of electrical installation.

   2015-16

- To increase the Girls Hostel area by 1300 sq.m. (540+540)
- To increase the Boys Hostel area by 2600 sq.m. (867+867+867)

   Perspective plan for new programs:

   2011-12

- Increase in the intake of Civil engg and mechanical engg

   2012-13

- To start PG program in Computer science and engg. in 2012-13.

   2014-15

- To set up research centre (PhD programs) in Production engg., Biotechnology, civil engg.
- Start of new course to cater the need of content beyond syllabus.

   Perspective plan for New initiatives:

   2011-12

   To establish IQAC (Internal quality assurance committee)

   2013-14

- To apply for NAAC accreditation.

   2014-15

- To apply for NBA re-accreditation for programs (Mech, Prod, Electronics, Civil, Environ, Biotech) and to apply for accreditation for E and TC program.
- To formulate 'One KIT' – A drive for enhancing industry institute interaction.

   2015-16

- To apply for permanent affiliation to Shivaji University.

   2016-17

- To apply for autonomy.

   Perspective plan for R and D:

   2014-15

- To set up research centre (PhD programs) in production engg., Biotechnology, civil engg. in 2014-15.

  2015-16

- To increase industry collaborations.

6.2.3 Describe the internal organizational structure and decision making processes.

Internal organization structure is as follows:

ORGANIZATION STRUCTURE OF KIT'S COLLEGE OF ENGINEERING, KOLHAPUR
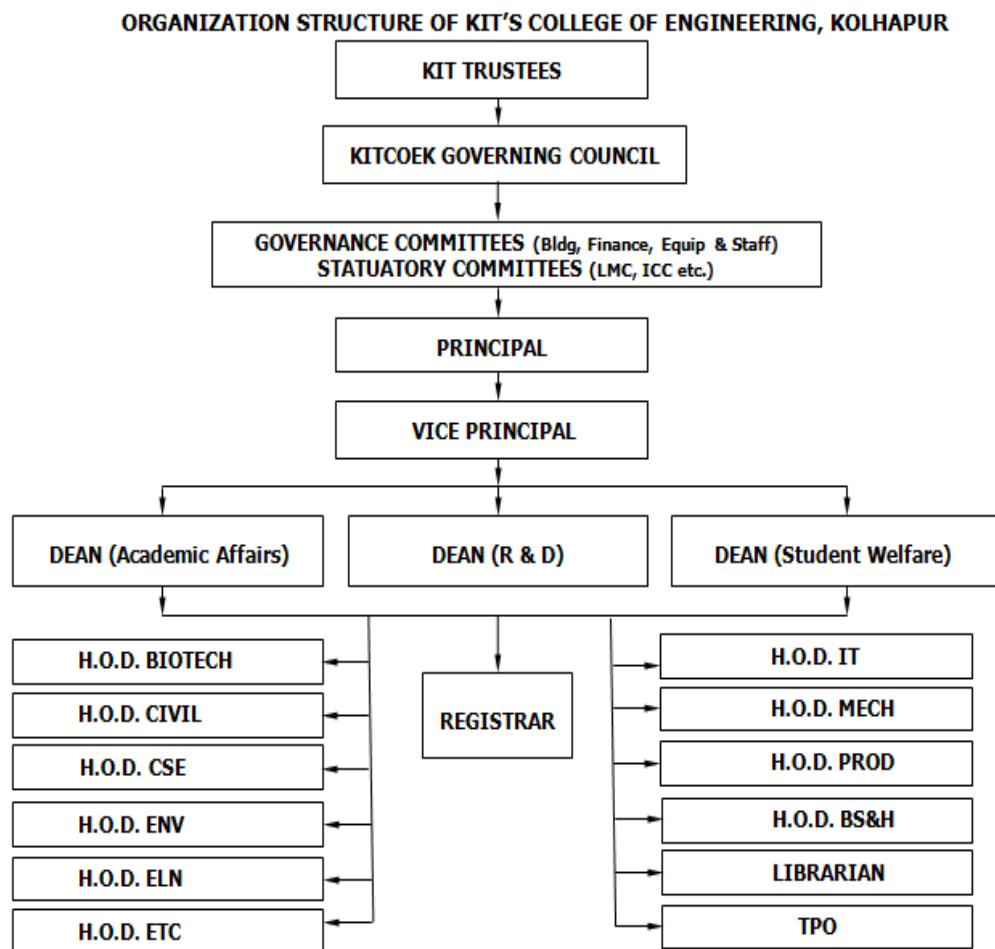
The trust 'Kolhapur Institute of Technology' established in 1980 is the Top Management body. KITCOEK Governing Council consists of 11 members as per the AICTE guidelines and it guides the trust in planning institute policies. There are four governance committees formed by the trust namely Building Committee, Equipment Committee, Finance Committee and Staff Committee. These committees are the top decision making bodies in the respective field.

Board of Governing Council

Sr. No.	Name of Governing Council Member	Designation	Representative / Nomination
1	Shri. Sachin R. Menon	Chairman	Society / Trust Nominee
2	Shri. Bharat D. Patil	Member	Society / Trust Nominee
3	Mr. Sajid M. Hudli	Member	Society / Trust Nominee
4	Mr. Rajendra R. Deshpande	Member	Society / Trust Nominee (Industry)
5	Dr. Shivram Bhoje	Member	Society / Trust Nominee (Educationalist)
6	The Director AICTE Regional Office Ex. Officio	Member	AICTE Nominee
7	Dr. K.R. Patil	Member	Shivaji University, Nominee
8	Mr. P.V. Sarode Joint Director, Technical Education Regional Office, Pune	Member	DTE Nominee
9	Dr. J.C. Padate	Member	State Govt. Nominee
10	Dr. M.S. Chavan	Member	Society / Trust (Prof., Dept. of Electronics Engg.)
11	Dr. A.S. Vaingankar	Member	Society / Trust (Prof., Dept. of Electronics Engg.)
12	Mr. Tanaji B. Patil	Member	Society / Trust (Asst. Prof., Dept. of Information Technology)
13	Dr. M.M. Mujumdar	Member – Invitee	Vice Principal, KITCoEK
14	Dr. V.V. Karjinni	Member – Secretary	Principal, KITCoEK

Decision making process:

New proposals/improvement proposals and difficulties/problems may generate at any level of the organization structure. It is presented immediately to upper level for decision. If the proposal falls within the boundaries of autonomy/ authority provided to that level, the decision is taken at that level. Else, it is sent to the next level and so on.

There are three deans namely dean (Academic affairs), dean (student activities) and dean (Research and development). Depending on the nature/ category of the proposal, the particular dean discusses the issue with the Principal. Final decision is taken by the Principal after necessary discussion with the top management.

In decisions about administration and those involving non-teaching staff, the registrar plays a major role along with the Principal.

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. Academic calendar ensures perfect planning of institutional /departmental activities.

- The institute promotes use of modern teaching-learning aids and application of ICT resources for effective delivery of curriculum to optimize learning outcome.

- 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.

- The institute promotes use of ICT based teaching learning (MOODLE) by the faculty for academic planning, assessment and monitoring.

- The method of Continuous Assessment Report (CAR) is used for regular internal evaluation of students. CAR 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 - MOOCS, e-journals, digital library which are effectively 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 PhDs as a part of qualification improvement program (QIP).

    - Engage in AICTE funded projects like IIPC, Research Project Scheme (RPS), Faculty Development Programs (FDP), Modernization and removal of obsolescence (MODROB) etc.

    - Attend various conferences at national and international Level

    - Actively participate in different professional bodies such as Computer Society of India (CSI), Indian Society for Technical Education (ISTE), Indian Society for Heating, Refrigeration and Air Conditioning Engineering (ISHRAE), SAE, IEEE, IETE, ASME etc.

- For direct contribution of faculty members to research, institute provides facilities like- laptops, modems, digital library facility, modern equipment and labs.

- Conferences and 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.

- Publication 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

- The Institute facilitates the research among students by conducting Paper presentations, workshops etc.

- Institute encourages the research and innovations among students by giving rewards and appreciations.

- Funding is provided for filing research patent filing.

   For Quality improvement in Community Engagement:

- Institute conducts the community programs through NSS. The community programs conducted are -

  - Blood donation Camps

  - Tree plantation

  - Health camps – (e.g. Eye check-up)

  - Computer literacy drive

  - Social charity towards orphanages, old-age homes by donating food, clothes and fulfilling other needs

- Through Women Cell, the Institute conducts Sensitization and awareness programs against women exploitation and abuse.

- The institute promotes cultural activities to nurture creative instinct in the students

- The institute conducts Sensitization and awareness programs about Environment pollution control.

   For Quality improvement in Human Resource Management:

- The institute uses evaluation methods for teaching/ research of the faculty.

- The institute has definite strategies and implements them while recruiting and retaining faculty and other staff.

- Employing visiting/ ad-hoc 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:

- Institute calls eminent experts from industries as resource person in workshops.

- 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 of students' visits to industry.

- Institute encourages the students to take industry sponsored projects.

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. The faculty collects the feedback and problems of students during mentoring meetings scheduled every month. They report these to the Dean Academic. HoDs and Dean Academic convey this information to the Principal. In the meeting of the Principal with the management, this information is discussed. Based on these discussions, activities are revised.

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 appreciates, rewards the staff for their achievements in academic and research activities.

- 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 curricular, extra-curricular and administrative development of the college.

- The staff members are involved as representatives/ members in various committees such as Grievance Re-dressal Committee, Staff academy/ staff welfare, Disaster Management Committee, etc. The suggestions

of these committees are taken in to consideration for major policy changes and decisions.

- The institute provides platform for interaction with eminent personalities from IITs and industries.

6.2.7   Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The resolutions passed in the Management council meeting held on on 27 July 2013 are presented herewith.

1. The balance sheet of KIT's College of Engineering, Kolhapur for the year 2012-13 was considered and approved.

2. The budget of KIT's College of Engineering, Kolhapur, for the year   2013-14 was considered and approved.

3. The status of students' placement for the year 2012-13   was reviewed.

4. The status of faculty recruitment for the academic year 2013-14 was reviewed.

5. The admission status of first year 2013-14 was reviewed. Proper steps were suggested to decrease the number of vacant seats.

Status of the implementation of these resolutions:

- By reviewing the balance sheet, a proposal is sent to the Shikshan Shulk Samiti for increase in the tuition fees.

- Budget allotments are done as per the approval.

- To improve the students' placement, the training and placement officer has arranged a training program for 3rd year students of all departments.

- Due to increase in the intake of students, additional faculty was recruited.

- To improve the number of 1st year admissions, awareness programs and counseling sessions on junior colleges were conducted.

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?

The institution is affiliated to Shivaji University. This university has a provision for awarding the status of autonomy to affiliated institutions.

This institution is established in 1983. Presently, the institution is planning for permanent affiliation and also preparing for re-accreditation of NBA and NAAC accreditation. The institute has 102

approved faculty members which is more than 55% of the total faculty. Hence it is eligible for permanent affiliation to the university.

The institution plans to go for autonomy after acquiring the permanent affiliation and NAAC/NBA accreditation.

6.2.9   How does the Institution ensure that grievances / complaints are promptly addressed to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

Institute has grievance redressal committee which is constituted for redressal of grievances of students and staff. The committee is responsible for reviewing the grievances received and for initiating proper action. The committee meets every month. The committee has following members as listed below.

- Principal/ Head of institution
- Faculty coordinator for the committee
- Faculty coordinator for each Department / Head of concerned Department
- Registrar
- General Secretary of the Students' Council.

Suggestion boxes are located at all important places in the Institute,

The suggestions are collected and compiled by the grievance redressal cell, every month. Accordingly, inputs are given to related sections of the Institute to take the actions there upon.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

Yes. There are TWO cases going on pertaining to employees of KITCoEK.

1. Mr. Shitole Ramachandra Balu: Mr. Shitole R.B. was working as Assistant Librarian. He was put in the scale of Assistant Librarian as per directives of DTE Maharashtra circulars. He complained the Chairman, Grievance Committee, Shivaji University, Kolhapur to put him in the scale of UGC. The Chairman, Grievance Committee, Shivaji University without hearing college authority, passed order to give scale of Asst. Lib. as per UGC. Hence, the college authority appealed in the Hon'ble High Court Mumbai against the decision given by the university (WP/7850/2013).

2. Mr. Kishorekumar Govind Hiraskar: Mr. K.G. Hiraskar, Asst. Professor in Dept. of Civil/Env. Engg. was given appointment as a

Professor by Shivaji University, Kolhapur. But, later the University withdrew his approval for not having Ph.D. qualification. Then, Mr. Hiraskar appealed in College Tribunal, Pune. The Presiding Officer, Shivaji /Pune University has rejected his appeal. Thereafter, Mr. Hiraskar filed a writ petition in the Hon'ble High Court Mumbai against the decisions given by College Tribunal (WP/10446/2013).

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, Institute has the mechanism for analyzing student feedback on institutional performance. Responses and opinions of the students on various processes, systems and infrastructure is collected in the following formats.

1. Entry level survey

2. Library feedback

3. Hostel feedback form

4. Feedback about non teaching staff/ technical staff

5. Exit feedback

- In addition to this, suggestion boxes are kept in each department for taking students feedback on institutional performance.

- The feedback is conveyed to concerned faculty or staff, organizational section, IQAC and the top management.

- Corrective measures are taken by the Institute.

6.3   Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

- The institute provides sponsorship to the faculty for perusing higher studies.

- The institute deputes the faculty 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 faculty to be member of local, national, international, professional bodies and societies.

- The institute motivates the faculty and staff for arranging industrial training programs/ visits.

- The institute motivates the faculty for research and development by providing seed money, digital library and research equipment and labs.

- The institute Promotes research culture, research publication by creating infrastructure to carry out research work and run projects,

- To improve the teaching skill, the faculty is encouraged to adopt learner centric education approach viz. better academic planning, use of modern teaching learning aids, application of ICT resources.

- The institute motivates the non teaching staff to attend skill development and training program. Allows them to attend courses to improve their educational qualification, Institute organizes training programs on office automation, use of open source software etc.

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 administrative skill development of staff, the Institute organizes corporate training programs like mission 10X.

- For personality development, teaching skill development and social and technical upgradation, the Institute organizes training programs.

- The institute deputes the faculty for training organized by other organizations. For example, refreshers courses, orientation programs, summer/winter short term schools (SWSS), etc.

- The institute telecasts webinars of IUCEE, IEEE etc. to create awareness about recent trends and developments in new areas.

- The institute invites resources 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-

- Giving essential inputs, providing personal training on lecture/ labwork delivery/seminar-project guiding, counseling on career advancement.

- 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, extension, professional, development related activities. Research, publication and academic contributions

Part C: Other relevant information

2. Performance appraisal system of the non teaching staff:

Annual assessment for the performance based appraisal system is adopted as per guidelines by Government of Maharashtra. Hence it is ensured that information on multiple activities is appropriately captured.

The information includes-

Part A (Self appraisal): General information and academic background, courses/training programs attended/ notable achievements during the year,

Part B (Appraisal by reviewing officer(s)): Performance in Technical work and administration related activities, Co curricular, extension, professional, development related activities, academic contributions, general conduct and qualities, aptitude

6.3.4 **What is the outcome of the review of the performance appraisal records by the management and major decisions taken? How are they communicated to the appropriate stakeholder?**

For review of performance appraisal:

The Performance based appraisal system (PBAS) forms are submitted to the staff academy committee which is also the review committee.

The outcome: The best part of the PBAS is that each faculty becomes aware of self weaknesses and tries to improve oneself in those areas so that he/she can score better in the next year.

Major decision taken: The score/ category obtained in the PBAS contributes to the decision about faculty appreciation. Faculty with low score is personally counseled by the Principal.

Communication with stakeholders: PBAS 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 on the last 4 years?

Welfare schemes available for teaching and non teaching staff:

- Faculty is deputed for full time PG and Ph.D. program by paying full salary. (Since 1998)

- Service to successor of a staff on availability of vacancy basis.

- Advance payment and loan to staff.

- Tuition fees collected in (equal monthly installments (EMI) for wards of the staff.

- Immediate medical aid to accident affected staff.

- Uniforms to class IV staff.

- First aid unit in every department/ building.

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.

- The institute offers freedom of work and gives opportunity to excel in the domain of individual. Also it assigns higher administrative posts to the eminent faculty.

- Additional incentives/increments are provided to experienced and qualified Ad-hoc faculty.

- 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 seminar, conference, workshop etc.

- Decentralized academic environment, good governance and flexibility in the teaching – learning process provided in this institute. Due to these factors, the faculty gets full job satisfaction in their field.

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 the beginning of every academic year, budget is obtained from departments, library, sports and IQAC. Budget for the departments is prepared by concerned HODs, in consultation with the department laboratory in-charge faculty. Then it is sent to the Principal. The departmental budgets are discussed by the Principal at HoD's meeting and then sent to management for final consideration. Then it is put up to the Governing Council for final approval and IQAC is informed accordingly.

While preparing the institutional budget, at first, a provision is made for Staff Salaries and Allowances. Next, a provision is made for administrative and maintenance expenses such as electricity, water, telephone, postage etc.　Then, while making provisions for the departments, priorities, needs and requirements of various committees and development / up-gradation of department is seen.

To meet every month's Human Resource and Administration Expenses, the Institute follows a practice to invest in Fixed Deposits that mature one by one on the 1st day of each month.

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.

To audit the daily routine transactions, internal audit is done by Accounts Officer. Internal audit is done regularly.

Mechanism for monitoring the expenditure:

All the major equipments are purchased through Equipment / Purchase Committee. The Equipment Committee meeting is held in each semester of every academic year. After approval of the equipments within budget provision, quotations are called from renowned suppliers, then Comparative statement is prepared and suppliers are called before equipment committee for negotiations. After negotiations purchase order is placed, with necessary conditions. When materials / equipments are supplied, it is physically verified as per purchase order then it is installed, trials taken. After satisfactory trials and/or training Goods Inward Note (GIN) is prepared. GIN is prepared by Stores section and it is signed by concerned staff and respective Head of Department (HOD). Then GIN along with supplier's Invoice is sent to

accounts section. Accounts section verifies the Invoice, GIN and Purchase Order (PO), accountant signs it and sends to Principal for his sanction for the payment.

Same procedure is followed for all other major purchases and repairs and maintenances.

External audit is done by the Chartered Accountant.

The last External Audit is done up to financial year ending 31-03-2014.

Major objection in the external audit is that Physical Verification of all fixed assets should be done.

For the compliance, currently, all the departments are instructed to undertake physical verification of equipments.

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 status of our Institution / College is "Self Financed", non-aided private engineering college. The major source of receipts is Fees from the students. The Fee (Tuition Fee and Development Fee is decided by Shikshan Shulka Samiti, Govt. of Maharashtra). Our College is affiliated to Shivaji University, Kolhapur. Other fees are collected as per Directives of Shivaji University, Kolhapur. Also, the entire infrastructure (Land Building and Immovable Property) is provided by the Parent Trust.

If there is any deficit, then the Trust i.e. Kolhapur Institute of Technology decides on ways to manage it. If required, the Trust raises loan from the banks.

The reserve / corpus fund is maintained at the Trust.

Audited income and expenditure statement of academic and administrative activities of the previous four years are available.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

For acquiring additional funding, the Institute generates revenue through consultancy work and through projects sponsored by organizations like DST, UGC, AICTE (schemes MODROB, TEQIP, RPS) NABARD etc. The details are as follows:

Department	Consultancy (Rs)	Funding (Rs)	Funding agency

Environmental Engg	9634390/-	1200000/-	MODROB
Civil Engg	2025930/-	5092000/-	MODROBs
Mechanical Engg		975000/-	NABARD
	-	1000000/-	IFM Germany
		300000/-	ARAI Pune
Production Engg	-	1500000/-	NABARD
Electronics Engg		1500000/-	MODROBs
	-	865000/-	
		100000/-	Central Government of India Rs.
Biotechnology Engg		1860000/-	MODROB
	-	700000/-	RPS
		200000/-	Seminar Grant
Basic Sciences & Humanities		1900000/-	SERB-DST, New Delhi

The revenue generated from consultancy is utilized for upgrading the laboratories, conducting faculty development and student development programs.

The funding received from the respective organizations is utilized for the purpose for which it is received.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. **Has the institute established an IQAC? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

b. **How many decisions of the IQAC have been approved by the management/ authorities for implementation and how many of them were actually implemented?**

c. **Does the IQAC have external members on its committee? If so, mention any significant contribution made by them?**

d. **How do students and alumni contribute to the effective functioning of the IQAC?**

e. How does the IQAC communicate and engage staff from different constituents of the institution?

a. Yes, the institution has an established IQAC.

The institutional policy with regard to quality assurance:

The institute gives utmost importance to assure quality in all processes. The academic and administrative processes are interlinked as shown in the figure in 6.5.2.

To institutionalize the quality assurance processes:

The IQAC has suggested inclusion of proper planning, execution and monitoring and evaluation. These key factors are executed in the following manner.

1. Preparation of academic plan and calendar.

2. Execution and monitoring of academic plan/activities.

3. Conducting internal assessment tests

4. Collecting feedback from students and alumni.

5. Mentoring the students.

6. Developing infrastructure

b. Following is the list of important decisions taken by IQAC during recent years: All decisions taken by the IQAC are generally approved by the management- Few modifications may be suggested by them.

1. Change in vision and mission in view of current global scenario (2011)

2. Infrastructure development - New building for Department of E&TC Engineering , expansion of main building on the second floor (2011)

3. Expansion of Girls' hostel (2011)

4. Introduction of mentoring system (2012)

5. Modify the classrooms into 'smart' classrooms (2012)

6. Introduce MOODLE system for improving monitoring of teaching learning processes (2012)

7. Provide Wi-Fi facility in the campus (2012)

8. Apply for NBA and NAAC (2012 and 2013 respectively)

9. Improvisation of the academic diary (2013)

10. Preparation of the students' diary (2014)

11. Increase the capacity of electrical installation (2014)

12. Start new course to cater the need of content beyond syllabus (2014)

13. To set up research centre in Production Engineering, Biotechnology, Civil Engineering (2014)

14. To start 'One KIT'- a drive for enhancing industry institute interaction (2014)

Status of implementation of IQAC decisions:

1. After a series of visits to external agencies, the Vision and Mission statements were revised.

2. New building for department of E&TC Engineering is built and is being used. Expansion work of main building on the second floor is currently in progress.

3. Girls' hostel building expansion is not yet implemented.

4. Mentoring system is adopted.

5. LCD projectors facility is provided in the classrooms.

6. MOODLE system is implemented.

7. Wi-FI facility is provided.

8. Preparations for NBA are in process. Application for NAAC is in the final stage.

9. Improvisation in academic diary is done every year.

10. Students diary is issued to all students in year 2014.

11. Purchase order for a new electric transformer with higher capacity is placed.

12. New course to cater the need of content beyond syllabus are started in some departments (2014)

13. Department of Production Engineering and Department of Biotechnology Engineering have applied to the Shivaji University for research centre. (2014)

14. 'One KIT'- a drive for enhancing industry institute interaction is started. Two programs were organized in 2014.

c. Yes, the IQAC have external members on its committee- one from industry sector, one from alumni and one from community service sector.

d. For the effective functioning of IQAC,   the students and alumni contribute as follows.

Responses and opinions of the students on various processes, systems and infrastructure is collected in the following formats.

1. Entry level survey

2. Library feedback

3. Hostel feedback form

4. Feedback about non teaching staff / technical staff

5. Exit feedback

In addition to this, feedback from students through the suggestions is received in the suggestion boxes.

Alumni visit the Institute during alumni meet and on other occasions. Some alumni are invited as guests on other occasions like seminars, conferences, students' project evaluation, social events etc. At this time, feedback is collected from the alumni.

The IQAC receives the statistical report based on the feedback and uses the information appropriately.

e. IQAC presents its presentations before the Principal and the HoDs during HoD meetings. Faculty and staff from different constituents of the institution are communicated through the heads of respective units.

6.5.2 Does the institution have an integrated framework for quality assurance of the academic and administrative activities? If 'yes', give the details on its operationalisation.

Yes. The integrated framework for quality assurance of academic and administrative activities is displayed in the following figure.

```
┌──────────┐  ┌──────────┐  ┌──────────┐  ┌──────────┐
│  Study   │  │  Lesson  │  │   CAR    │  │  Result  │
│ material │  │   Plan   │  │          │  │ Analysis │
└──────────┘  └──────────┘  └──────────┘  └──────────┘
```

Course file by Faculty → Student

Academic Audit committee

Student Feedback

IQAC

Inputs From Major recruiters

Suggestions to improve teaching learning process

Requirements of Infrastructural facilities to enhance learning environment

College administration

Management council
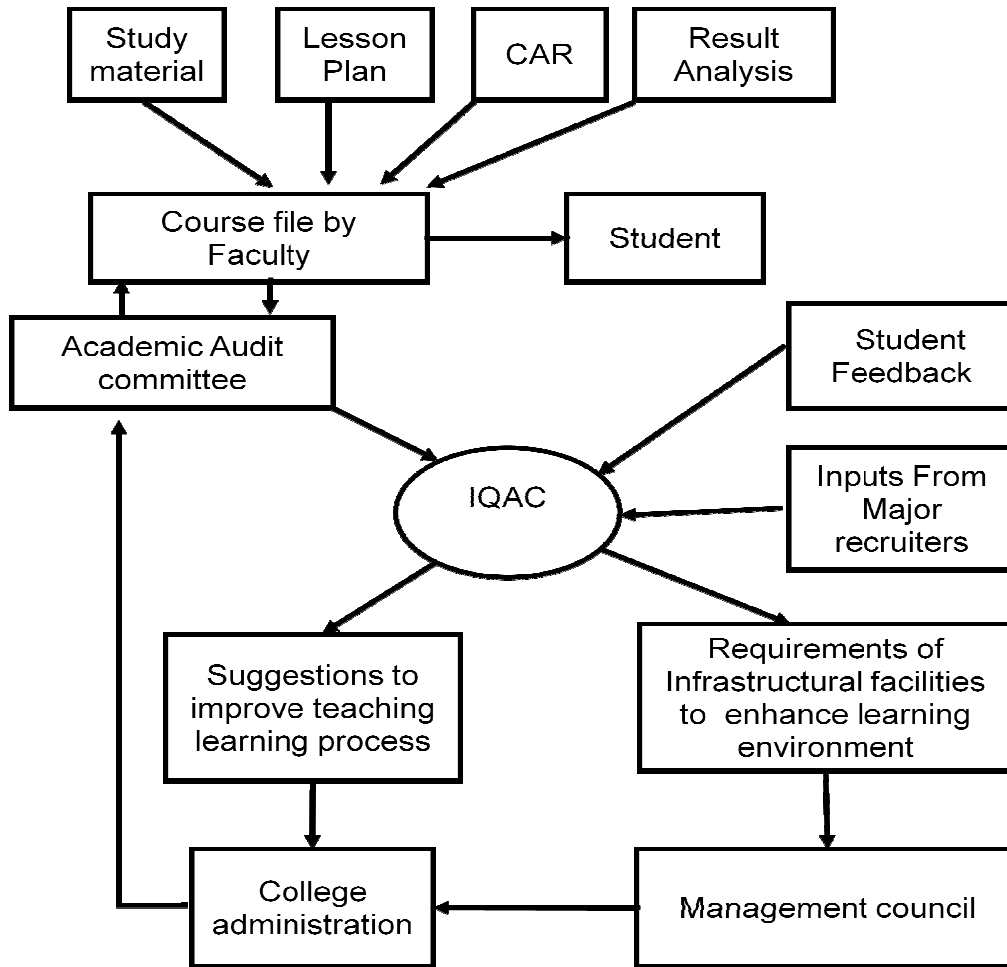
6.5.3 Does the institute provide training to its staff for effective implementation of the quality assurance procedures? If 'yes', give details enumerating its impact.

The staff is trained through institute level training programs and through department level training programs for effective implementation of the quality assurance procedures. The programs aim at –

1. Upgrading the skills and knowledge of the staff

2. Training the staff about work associated with various quality assurance processes.

A few examples of such training programs are-

1. Training program to improve computer handling skills. All advantages of computer based processes/ automation are achieved. With spreadsheet data maintenance, data is managed/ retrieved in flexible manner.

2. Training on conducting feedback collection sessions.

3. In the Department training for implementation of revised labwork contents.- Laboratory assistants are updated with the necessary knowledge. Students are benefited during lab work sessions.

6.5.4 Does the institution undertake Academic audit or other external review of the academic provision? If 'yes', how are the outcomes used to improve the institutional activities?

The institute undertakes internal academic audit in following matters-

1. Audit of academic diary of each faculty is carried out by a peer department faculty committee. This ensures audit of all aspects of teaching learning process.

2. A separate audit about coverage of syllabus is conducted by every department every month.

3. Every department submits 'Academic audit form' to the IQAC at the end of every semester.

   Outcome:

   1. In case of discrepancies, suggestions are given to the respective faculty for compliance.

   2. If the rate of completing syllabus per month is very poor, then, extra lectures are provided to the respective faculty by making necessary changes in the time table.

   3. Departmental library books, faculty number is updated as per the requirement.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies / regulatory authorities?

1. Continuous assessment scheme is an internal mechanism to generate term work marks of a student. Term work marks are included in the examination results by the university.

2. IQAC and the Department Heads propose required infrastructure as per the AICTE norms. Infrastructure development is done accordingly.

3. The Dean, Academic receives the faculty requirement data from the Department Heads and IQAC as per the University norms and AICTE norms. Faculty is recruited accordingly.

4. The Librarian and faculty from each department and IQAC initiate the Library books and journal purchases according to the AICTE norms.

5. Infrastructure and faculty status in the Institute is peer reviewed by the Local Inspection Committee (LIC) of the university. Suggestions of the LIC are utilized 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 outcomes?

Following mechanisms are used to continuously review the teaching learning process.

1. Audit of academic diary from peer group.

2. Mid-semester feedback about a teacher from the students.

3. Departmental audit about syllabus coverage every month.

4. Mentoring the students every month.

The structure for reviewing the teaching learning process is a part of the figure shown in 6.5.2.

Outcome :

1. The Quality of Academic processes in the Institute has improved..

2. Individual faculty gets inputs to improve his/her performance and hence contribute to the teaching-learning quality.

3. Individual attention to students through mentoring contributes to improvement in students' performance.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The institution communicates its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders as follows:

1. Vision, Mission, Quality Assurance policies are displayed on the website of the institution.

2. Vision, Mission and Quality Assurance mechanisms are printed in the students' diary.

3. Vision and Mission statements are displayed on boards at prominent places in campus.

4. Vision, Mission and quality assurance mechanisms are included in the information brochure.

5. Quality Assurance mechanisms and outcomes are informed to all during students induction program, students mentoring sessions, parents meetings, alumni meetings Principal's address at seminars/ conferences/ interactive sessions with stakeholders etc.

Any other information the institute wishes to give?

The institute is a pioneering and leading institute in the South-Western region of Maharashtra state. It has maintained a high reputation in quality of teaching learning processes. Currently, it has undertaken a venture named as 'One KIT' to enhance the industry institute interaction.

CRITERION-VII: INNOVATIONS AND BEST PRACTICES

7.1   ENVIRONMENTAL CONSCIOUSNESS:

The institute is conscious of environmental issues. It tries to create environmental awareness among the stakeholders. In fact, it is the first & only institute offering environmental engineering program in this part of the nation. The institute authorities are very keen on making the campus eco-friendly by adopting certain measures. The institute also adopts energy conservation practices, effective waste management at source and plantation for making the campus clean, green and healthy.

7.1.1   Does the Institute conduct a Green Audit of its campus and facilities?

A natural light audit of the main building of the Institute was carried out in the year 2011-12 by Prof. S. S. Varur. The scope, status and short-falls in existing light energy scenario of the Institute were identified.

All the class-rooms, laboratories, offices were audited for light fixtures and their efficiencies, availability of day light or the absence of it, comprising with Indian standard norms for good visual lighting. Other factors contributing to lighting were studied and suitable remedial measures were suggested.

1) Among these measures, the old opaque FRP sheets were changed to more transparent poly carbonate sheets.
2) Retrofitting of M.S. windows with aluminum sliding windows was carried out some locations.
3) Old T12 tube lights are progressively being replaced by T5 tube lights.

7.1.2   What are the initiatives taken by the Institute to make the campus eco-friendly?

Energy Conservation:
1. Each block of institute has individual power control panels and energy meters installations, which help in separate and effective monitoring and control of energy consumption.
2. The UPS batteries are maintained in good condition which reduces energy for charging of batteries.
3. Energy conserving lights like CFL, T5 tube lights and LED are used in the Institute campus.

a) **Environmental Awareness Campaigns:**

Every year the Institute organizes and celebrates the following programs through its Environmental Engineering Department.

i) **World Water Day:**
World water day is celebrated every year on 22nd March by the people all across the world.
To achieve the goal of creating awareness regarding water conservation, every year various competitions, photo exhibitions and different programs are conducted which includes essay writing. Poster presentation, T-Shirt painting, face Painting etc. on the theme of water management, water pollution and water literacy. Informative guest lecturers are conducted by inviting experts from the local areas.

ii) **Ozone Day:**
Since 1995 the Institute, on 16th September, celebrates the international day, as per the declaration of United Nations General Assembly for preservation of the ozone layer.
The Institute conducts specific activities in accordance with the objectives and goals of ozone day, which involves pledge by students to become a responsible citizen.

iii) **Earth Hour Day:**
Earth hour is a worldwide grass root movement uniting people to protect the planet and is organized by WWF. It is celebrated on every 29th March between 8:30-9:30 PM.
The Institute follows this one hour shutdown of light strictly in the whole campus. The Institute encourages their students to celebrate the earth hour day.

iv) **Shri Ganesh Idol Donation Camp:**
River Panchaganga is one of the highly polluted rivers in India. It is due to industrial, municipal and agricultural waste being discharged in to it without giving any treatment. This problem intensifies during festive occasion such as Ganesh festival traditionally Ganesh idol and floral garbage is discharged in to the river since hundreds of years.
Our Institute is one of the leading technical institutes giving prime importance to the social issues; one of the steps towards this social awareness is Shri Ganesh Idol donation camp. For last 15 years campaigns to create awareness to donate these idols are successfully conducted at number of places in Kolhapur city, which is well reported by conscious citizens. Every year on an average around 700 to 800 idols are collected in these donation campaigns.

v) **Shri Mahalaxmi Kirnostav**
During the year 2004-2006 the work of Kirnostav was assigned to the Institute. It was the work of identifying the obstacles to the phenomena of Kirnostav that is, falling of sunrays on Goddess Mahalaxmi's deity

twice in a year. This is a very rare phenomenon showing the grandeur of architectural planning of ancient times. But due to some buildings that were constructed, the phenomenon was not occurring in last 10-15 years. The Western Maharashtra Devasthan Committee had requested our faculties, principal investigator Prof. K.G. Hirasker and co-investigator Mr. S.S.Varur to help to solve the problem and find the obstacles causing hindrance to Kirnostav.

The Faculty of our institute conducted a survey using advanced instruments like Total Station. The survey revealed hindrances in Kirnostav. A report was then submitted to western Maharashtra Devasthan Committee along with remedial measures by the Institute.

On constant perusal by Devasthan committee and deliberations with commissioner of KMC, the inhabitants voluntarily removed the structures hindering the Kirnostav. Kirnostav phenomenon is now occurring to an extent of 78-80% as compared to earlier non occurrence.

b) Rain Water Harvesting
The campus of the Institute is having large built up area to harvest the rainwater. Rainwater harvesting is being done in step by step manner. Presently the roof top of Boys hostel building is used as the catchment area to harvest the rain. The next proposed areas are Girls hostel roof top, KIT's main building, KIT's IMER building etc.
The present system is the collection of rainwater from the top of Boys hostel and discharging it in the nearby existing lake for percolation. For this the volume of the lake was increased by digging it up to two meters deep.
By implementing this rise in the water level is observed in the well which exists in the campus.

c) Check dam construction
The Institute is having excellent site topography for watershed development. By using different soil and water conservation techniques huge quantity of rainwater is conserved.
Land and water conservation practices which are made within the Institute campus include construction of contour bunds, check dams and other soil moisture conservation practices which protect the land degradation, improve soil health and increase soil-moisture availability and ground water recharge.
Construction of check dams across the stream channels is made to reduce peak discharge and harvest substantial amount of runoff, which increases groundwater recharge.
Two streams are flowing in the campus having total length of about 600 to 700 m. During rainy season it flows to full capacity. As a part of

conservation and ground water recharging initiative was taken by the Institute to construct the check dams on the flowing streams.

Following measures were taken in the campus to increase the groundwater recharge to percolate the stored water.

1) Continuous Contour trenches were made with tree plantations on all possible existing slopes.

2) Gully plugging with provision of Check Dams was made on the water stream discharging in the existing lake.

By implementing the above watershed technologies, the ground water table as well as the water level in the existing well has increased. Thus it has satisfactorily fulfilled the water needs and reduced the dependency on present water supply scheme throughout the year.

d) Efforts for Carbon neutrality

Carbon Sequestration

Carbon footprint is a measure of the impact of our activities on the environment, and in particular climate change. It relates to the amount of greenhouse gases produced in day-to-day lives through burning fossil fuels for electricity, heating and transportation, etc.

It is necessary that we take remedial actions to reduce the primary and secondary footprints which due to CO_2 emission lead to increase in temperature of the planet.

Case of KIT's Institute of Engineering

> Total Area=27.75 acres
> Among which there is 33% green cover is present.
> About 0.83% water bodies are present.

These are the two sources which act as a sink for reduction in CO_2 level in the atmosphere.

1. Tree plantation- The KIT has enriched with the various types of trees. The different types of trees are planted within the premises of the Institute. The major areas where the tree plantation covered is KIT girls' hostel, boys' hostel, KIT library building and periphery of the Institute play ground.

2. Vehicular exhaust. Number of students using bikes, cars for daily transportation, as well as the NH4 Mumbai Bangalore Highway has higher potential traffic density as well as vehicular exhaust emissions.

Throught the year the prevailing wind direction is from the highway towards theInstitute. By taking this into consideration, the various types of plants have been planted so that they can obstruct the

movement of contaminant or pollutants coming to the Institute as a receptor.

Periodic tree plantation as well as Environmental Awareness programmes being conducted by Institute through Department of Environmental Engineering. This not only includes emphasizing mass tree plantation but also assign the task of maintenance of individual plant to individual student or entity.

e) Plantations

i) Medicinal Plants were planted on 08th Aug. 2012 by the hands of well known Scientist Dr. Madhukar Bachulkar. Plants are maintained and monitored properly. These medicinal Plants include the plants which are on the verge of extinction. So to take care of environmental consciousness institute decided to increase the number of some highly endangered plants.

List of Medicinal Plants present in the Institute

Sr.No.	Local Name of the Plant	Scientific Name of the Plant
1.	Nag keshar	Mesuaferrea
2.	Rakta chandan	Pterocarpussantalinus
3.	Saptarangi	Salacia reticulate
4.	Beheda	Terminaliabelerica
5.	Brahmi	Bacopamonniera
6.	Aloe vera	Aloe vera
7.	Neem	Azadirachtaindica
8.	Tulsi	Ocimumtenuiflorum
9.	Amla	Emblicaofficinalis
10.	Satavari	AspargusRacemocus
11.	Periwinkle	Vincearasea
12.	Bael/Bilva	Aeglemarmelous
13.	Ashok	SarcaAsoca
14.	Banyan Tree	Ficusbenghalensis
15.	Adulsa	Justiciaadhotoda
16.	Jamun	Syzygiumcumini
17.	Nilgiri	Eucalyptus globulus
18.	Chapha/Champa	Plumeriarubra
19.	Hibiscus	Hibiscus rosa-sinensis
20.	Lemon Grass	Cymbopogancitratus
21.	Amla	Emblicaofficinalis

ii) A large number of tree plantations were done by a team of teaching and nonteaching staff and N.S.S Cell in the campus to make it greener.

iii) Garden and grass lawns are developed and maintained by using the exit water from the sewage of the campus.

f) Hazardous waste management

In the Department of Biotechnology, several experiments are performed using some hazardous chemicals and potent carcinogens like Ethidium Bromide (EtBr), bacterial waste, flammable chemicals and UV light. Therefore, precautionary measures are taken for proper handling and disposal of hazardous chemicals to avoid the possible accidents and thereby creating safe working environment.

a) Precautionary Measures:

1) In the laboratory, eating and drinking is prohibited were smoke and hazardous chemicals are present.
2) In emergency eyewash and shower are immediately accessible.
3) Wearing of lab coates with sleeves rolled down, chemical splash goggles, and nitrile disposable gloves when working with concentrated acids, alkali and poisonous and carcinogenic chemicals and handling the microorganisms in the laboratories is monitered. Even when working with diluted concentrations, nitrile gloves are always used. Disposable gloves are never re-used.
4) The laboratory is equipped with exhaust fan to expel fumes and gases formed during experimentation.
5) To prevent the spread of this or other chemicals outside the lab, users wash their hands thoroughly with soap and water after removing their gloves, even if they are certain the gloves were not punctured.
6) Gels containing poisonous chemicals are collected separately in a sealable disposable plastic containers or Tupperware containers with lids.
7) The Hazardous chemicals are under the custody of Store Keeper and issue under strict supervision and sanction.
8) To avoid direct contact with eye to UV light, a Camera is used to take a photograph as well as Face-shield is used specially to avoid contact of UV light.

b) Procedure for Hazardous waste management:

1) During handling of EtBr, sterile hand gloves and eyewear are used to avoid direct contact with this chemical.
2) After the use of EtBr, all the EtBr containing material like agarose Gel is collected in Autoclavable Plastic bags.
3) These plastic bags are autoclaved by maintained 121^0C temperature and 15LBS Pressure in autoclave machine for 20 minutes.

4) Once the autoclaving finished, EtBr will degrade and inactive which is safe to disposal. Backyard of Biotechnology Department, we use to dispose this autoclaved material in the disposal pit.

g) e-waste management:

The different types of e-waste generated in the Institute like damaged C.D.s, C.P.U.s. , Hard Disk Drives, Monitors, Keyboards, Cables, Cartridges, etc. are collected together and handed over to an external e-waste recycling agency.

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 Institute.

A) Value Added Training Programs for Civil engineering students in STAAD.PRO, GIS, Total Station for Academic Collaboration and Engagement, which is also useful for campus placements of students.

- **Objectives of Training in STADD.PRO -**
  Students are trained in carrying out complete structural design and analysis of various structures.

- **Objectives of Training on GIS -**
- After GIS training the students shall have the detailed knowledge of GIS.
- They will be able to do various surveys such as for military, forest engineering (Dam, Canal, etc.), Navigation.
- The said training shall give the student an extra edge to get the placement in respective field.

- **Objectives of Training on Total Station -**
- To train the students in carrying out a complete and advance survey.
  The details of programs are as follows-

Nature of Training Program	Resource Person	Duration	Participants	Nos.
One week Training Programme "Using STAAD.PRO"	Hitesh Lahoti, CESA, Pune	7th to 11th Oct.,2010	B.E. Civil	30
Three days workshop on Staad.Pro Training	Mr. Pradeep Kulkarni	18-20 Jan. 2011	B.E. Civil	28
Five days workshop on"Using Staad.Pro"	Mr. Pradeep Kulkarni	24 to 28 Aug 2011	B.E. Civil	30

Five days workshop on"Using Staad.Pro"	Mr. Pradeep Kulkarni	21 to 25 Sept 2011	B.E. Civil	28
Five Days Training Programme "Using Staad.Pro"	Mr. Pradeep Kulkarni	11 to 15 Feb. 2014	B.E. CIVIL	31
One week Training on Quantum G.I.S. by Geo Icon, Singapore	Mr. S. Nishikant, Map Space Ltd., Chennai	31st Jan to 4th Feb. 2013	S.E. to B.E. Civil	20
One week Training on Quantum G.I.S. by Geo Icon, Singapore	Mr. S. Nishikant, Map Space Ltd., Chennai	16 to 20 Feb. 2014	S.E. to B.E. Civil	21
Two Days Workshop on, Hands on Training on Total Station under Lead Institute Activity (Kolhapur District)	KIT's CoEK	6th to 7thJune, 2013	All	15

B) Value added Training Program For T.E and B.E Environmental Engineering Students

Department of Environmental Engineering conducts course on **EMS** and **OHSAS** every year.

Resource Organization: SGS India Pvt Ltd Bangalore

Duration of Course: 2 Days

Participants: TE and BE Environmental Engineering Students

SN	Internal Auditor Programme on	Duration	No of Participants
1	**EMS and OHSAS**	4th to 7th August 2011	42
2	**EMS and OHSAS**	24th and 25th March 2012 and 11th and 12th April 2012	32
3	**EMS**	21st and 22nd Aug 2012	34
4	**Carbon Footprint**	8th and 9th October 2012	43
5	**EMS and OHSAS**	2nd to 5th April 2013	34

The Common Objectives of the courses are :

1. To increase the employability of students.
2. To provide professional expertise to the students.
3. To expose students to the job market requirements.

C) Training of Electronics and E & TC Engineering students in Automotive Electronics under PACE (Program for Academic Collaboration and Engagement) program of KPIT Technologies Ltd., Pune and placement to students

Department of Electronics Conducts a course on Automotive Electronics in collaboration with KPIT Technologies Ltd., Pune under PACE program of KPIT.

Training in Automotive Electronics is offered to 150 students from Electronics and E & TC departments of the Institute in collaboration with KPIT Technologies Ltd., Pune since 2010.

- This is an add on course offered to students after the Institute hours.
- The classroom teaching of 45 hours and 24 hours of practical sessions are offered in a semester.
- Since inception of this course around 75 students have been recruited by KPIT Technologies Ltd., Pune.
- Beherhella Thermal Corporation, a German company operating from India has recruited 2 students trained in this course.
- Few students got placed in Hyundai Motors India Pvt. Ltd. off campus

About PACE:
- PACE begins with identifying Institutes that understand our focus areas; have proper infrastructure; have professors who are keen to work with us in co-developing the curriculum and are capable of encouraging students to select domains that we focus on. Once the Institutes are identified, PACE employs a specific calendar of activities; a whole series of events, which are driven by the practice and the TAG (Talent Acquisition Group) team. The purpose of these activities is to identify students who are academically sound, and are passionate and interested in our practice.

After the students are identified, our practice teams visit these Institutes and help the students understand the kind of work we do by conducting lectures and engaging them in projects. Our team ensures that the students are well trained by their respective Institutes and stay in touch with these students until they graduate. This not only helps the students connect and engage with the KPIT brand, but also guarantees a certain level of maturity and knowledge in them that is otherwise hard to find in fresh students.

D) Innovation by Departments of I.T. and C.S.E.:

MOU with Zensar Technologies Ltd.:

KIT has signed an MOU with Zensar Technologies Ltd, wherein KITCOEK would be a nodal center for training the students from CSE and IT branches from the Institutes in the region. The Institutes identified are Dr. D.Y. Patil Institute of Engineering, Kolhapur and

DKITE, Ichalkaranji. The Training offered to the students under MOU is as follows:

a) Technical Training	-	40 hrs
b) Soft Skill Training	-	100 hrs
c) Project virtual classroom teaching	-	120 hrs

In addition faculties will be trained by Zensar in Technical domains.

E) Innovations of Production Engineering and Biotechnology Departments

PATENTS:

1. **Prof.(Dr.) Jaydeep S. Bagi:** Biosynthesis of silver thin films (780/mum/2013)

2. **Prof.(Dr.) Jaydeep S. Bagi:** Improvement in corrosion resistance of electrodeposited ni-co alloy coatings.(3540/MUM/2013)

3. **Prof.(Dr.) Jaydeep S. Bagi:** A method for improvement in corrosion resistance of electrodeposited ni-zn alloy coatings. (36/MUM/2014)

4. **Dr. Monica Sanandam:** Designing of novel optical biosensor for detection of organophorous pesticide.(2713/MUM/2012)

5. **Dr. Monica Sanandam:** Antibody based piezoelectric Biosensor for detection of Hepatitis-B. (613/MUM/2013)

6. **Dr. Monica Sanandam:** Novel biological nanos (38/mum/2014)

7.3 BEST PRACTICES:

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the Institute.

A) Best Practice No.1:

1) Title of the Practice: Online Students Feedback System
2) Goal:
- To receive an online feedback from students about teachers, facilities and resources provided to them.
- To bridge the communication gap between students and teachers.
- To provide an opportunity to teachers to enhance their teaching skills.
- To receive suggestions from students for strengthening the teaching-learning process and overall academic environment.

3) The Context:

Teachers do prepare for the classes they conduct throughout the

semester. But sometimes they might not give a thought on how to convey a topic to students. In that case, even though the teacher is knowledgeable, competent and sincere, his efforts for communicating a topic to students go in vain. Unless such matters are brought to the notice of the concerned teacher, he/she cannot bring necessary changes into his/her teaching style. That is why the 'Students' Feedback System' came into existence in our Institute.

Secondly, students are continuously evaluating the facilities and resources provided by the Institute. . In fact, they are the best critics as they are the end users. This includes the library facility, transport, Internet, Wi-Fi even drinking water and cleanliness of the campus. To utilize these facilities efficiently, suggestions from students are very useful. We also ask students to give suggestions in this regard while conducting the feedback.

4) **The Practice:**

a. Feedback is conducted twice a semester- Formative (in the mid of semester) and Summative (at the end of semester).

b. The feedback is taken through software, **developed in-house.** There is a central feedback coordinator and also a coordinator at department level. The central coordinator is responsible for sending timely notices to Heads of the Departments and coordinators regarding the feedback activity and also for generating reports and sending them to the Principal and the Heads of the Departments. **The feedback dates are fixed when the Academic Calendar is prepared**. Generally a feedback is conducted in 3-4 days. The department level coordinators look after smooth conduction of the activity.

c. Students give the feedback by anonymously logging into the software. This encourages students to a give free and fair feedback. Students are presented with a questionnaire which they answer by selecting appropriate options. The questionnaire mainly concentrates on teaching-learning aspect of the feedback. The questionnaire is followed by a comment section where students can give their suggestions.

d. Immediately after the feedback, faculty members can log into the software and check numerical value of their feedback. HOD can check the feedback reports pertaining to his/her department. And the Principal can check feedback reports of all departments. The Principal discusses the reports in his meeting with the Heads of the Departments rigorously. In the meeting they prepare an action plan based on the feedback and suggestions received from the students. Heads of the Departments, in turn, communicate the action plan to

respective faculty members.

e. Based on the feedback report proactive actions are taken. A letter of appreciation is given to the faculty members scoring more than 8 out of 10 marks. Those who score lesser are given appropriate guidance for improvement.

5) Evidence of Success:

a. A teacher receives the feedback for a subject based on a questionnaire containing 10 questions. For each question a teacher is graded out of 10 marks. After receiving the feedback, a teacher comes to know about the areas he is lagging in. He / She then makes deliberate efforts for improving in those areas.

b. The Institute campus is Wi-Fi enabled since last 2 years. This is a result of constant demand from students through the feedback system.

c. The Internet speed is upgraded to 30Mbps. The demand was made by the students though the feedback system.

6) Problems Encountered and Resources Required:
Students can give suggestions only during the 3-4 days of the feedback activity. It should be possible for students to give suggestions any time throughout the semester.

7) Future Plans:
a. To add modules to the software to take feedback from alumni of the Institute as suggestions and feedback received from them is a valuable input to accelerate growth of the Institute.

b. To add to the software the exit feedback from the outgoing students.

B)   Best Practice No.2:

1. Title of the Practice: Best Outgoing Student Award

2. Goal:

In every Academic Year the Institute felicitates the Best Student amongst the Final Year students of all Nine UG Programmes.

3. The Context:
The Final Year students submit the information regarding their achievements during the four academic years spanning from First Year to Final Year. The Academic Excellence achieved by the candidates during each Semester University Examinations is a major criterion. The Performance of all the candidates is also judged for Organizing Skills, participation in Co-curricular / Extra Curricular Activities, Sports, Paper presentation at National and International Conferences, and National and International Journals. The Performance of the candidates

in Competitive Examinations and participation of candidates in Social Work for Community are also considered. Placement of the candidate in any reputed company is also a criterion for comparison.

Challenging Issues:

- Comparing the Academic Excellence of the students of different Programmes

- For each programme the number of Institutes offering programme and the number of students enrolled is different For Example: Computer Science and Engineering Programme or Electronics and Telecommunications Programme are available in 15 institutes in the University and nearly 1000+ students appear for the University End Semester Examinations. So the toppers are amongst 1000+ students. While for Environmental Engineering Programme is available in only our Institute in the University and nearly 70+ students appear for the University End Semester Examinations. So the toppers are amongst 70+ students only.

  Hence as the syllabus for the First Year is common for all Programmes the performance of the candidates can be compared and credits are given for being University Topper. No credits are given for being University Topper in the examinations from Second Year onwards to Final Year.

4. **The Practice:**

   The Final Year students submit the information regarding their achievements during the four academic years span from First Year to Final Year. Various Criteria considered for Best Student Award are as follows.

- The credits are given for Academic Excellence achieved during Each Semester University Examinations. Credits are also given for University Rank achieved in First Year of Engineering as all students have Common syllabus in the First Year.

- The Performance of all the candidates is judged for Organizing Skills, participation in Co-curricular Activities, Extra Curricular Activities, Sports, Paper presentation at National and International Conferences, and publications in National and International Journals.

- The Participation of candidates in Social Work for Community is also considered as one of the criterion.

- The Performance of the candidate in Competitive Examinations such as GRE, TOEFL, GATE, GMAT and MBA CET and placement of the candidate is also considered as one of the criterion.

- Credits are also given for the Personal Interviews of the nominated candidates. The Interviews are conducted by a committee comprising

of Principal, Dean Academics, Dean Students Activities, Best Outgoing Student Award Committee Coordinator and few senior faculty members.

5. Evidence of Success:

The Best Outgoing Student Award is a Best Practice implemented by our institute for nearly last 20 years. The Winners of the Best Outgoing Student Award have always undergone Post Graduate Studies in India and abroad, well placed in reputed multinational companies and flourished in their life.

SN	Academic Year	Name of Best Student	Department	Achievements
1	2010-11	Mr. Ruturaj Patil	IT	Job at Cognizant
2	2011-12	Mr. Ankit Rathi	Biotech	P.G. Studies
3	2012-13	Mr. Sameer Neve	Environmental	P.G. Studies
4	2013-14	Mr. Vinayak Pachlag	Electronics	Job at KPIT Cummins

6. Problems Encountered and Resources Required:
Problems Encountered:
Verification of authentication of achievements in various Criterion by the candidates.
Resources Required:
- A panel of experts.
- Original Certificates for verification.
- Certifications by concerned authorities such as Head of the Department, Sports Coordinator, etc.

7. Contact Details:
Name of the Principal: Dr. V.V. Karjinni
Name of the Institution: KIT's Institute of Engineering,
Gokul Shirgaon, City: Kolhapur. Pin Code: 416234
Accredited Status: NBA Accredited.

Work Phone: 0231 2638141   Fax: 0231-2638881
Website: kitcoek.in   E-mail: karjinni@yahoo.com
Mobile: 9422747499

5. EVALUATIVE REPORT OF THE DEPARTMENTS
DEPARTMENT OF ELECTRONICS ENGINEERING

1. **Name of the department:** Electronics Engineering

2. **Year of Establishment:** 1983

3. **Names of Programmes offered (UG, PG, etc.)**

NAME OF THE PROGRAM	Year of Establishment
UG (Electronics Engineering)	1983
PG (Electronics &Telecommunication)	2004

4. **Names of Interdisciplinary courses and the departments/units involved:**

Sr. No.	Name of Interdisciplinary course	Beneficiary Department	Supporting Department
1	Electrical Machines	Electronics Engg.	Electrical Engg.
2	Environmental Studies	Electronics Engg.	Environmental Engg
3	Mathematics	Electronics Engg.	General Science
4	Data structure and Algorithm	Electronics Engg.	Electronics Engg.
5	Industrial Management and Operation Research	Electronics Engg.	Production and Electronics Engg.
6	Control Systems Engineering	Electronics Engg.	Electronics Engg.
7	Computer Network	Electronics Engg.	Electronics Engg.
8	Mechatronics	Electronics Engg.	Mechanical Engg.and Electronics Engg.
9	Automotive Electronics	Electronics Engg.	Mechanical Engg.and Electronics Engg.

5. **Annual/ semester/choice based credit system (Programme wise):**

Semester based system

6. Participation of the department in the courses offered by other departments:

Sr. No.	Subject/courses offered	Organizing Department	Supporting Department
1	Microprocessor	Production Engg.	ELECTRONICS ENGG.
2	Mechatronics	Mechanical Engg.	ELECTRONICS ENGG.
3	Control Systems	Mechanical Engg.	ELECTRONICS ENGG.

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

Sr.No.	Courses offered	Industries	Year
1	Automotive Electronics	KPIT Cummins	2011-12 2012-13 2013-14

8. Details of courses/programmes discontinued (if any) with reasons:

Nil

9. Number of Teaching posts:

Post	Sanctioned	Filled
Professors	1	2
Associate Professors	2	4
Asst. Professors	9	10

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M. Phil. etc.,)

SR. NO.	NAME OF THE FACULTY	QUALIFICATION	DESIGNATION	SPECIALIZATION
1	DR. VAINGANKAR ANIL SHANTARAM	PhD	PROFESSOR	ELECTRONICS
2	DR. CHAVAN MAHESH S.	ME, PhD	PROFESSOR	ELECTRONICS
3	DR. PATIL YUVARAJ MAHADEO	ME, PhD	PROFESSOR	ELECTRONICS
4	MRS. DIXIT MANASI. R.	ME, PhD (perusing)	ASSOCIATE PROFESSOR	ELECTRONICS
5	MR. NIGAVEKAR ATUL RAVICHANDRA	ME	ASSOCIATE PROFESSOR	ELECTRONICS

6	MR. DESAI VIVEK KAMALAKAR	BE	ASSOCIATE PROFESSOR	ELECTRONICS
7	MR. RENKE AMAR L.	ME	ASSISTANT PROFESSOR	E & TC
8	MR. PATIL VIJAYKUMAR V.	ME	ASSISTANT PROFESSOR	ELECTRONICS
9	MRS. MADHURA VIJAY GANGAPURE	ME	ASSISTANT PROFESSOR	ELECTRONICS
10	MR. MOHITE ANIL S.	M.TECH	ASSISTANT PROFESSOR	ELECTRONICS
11	MR.S.S.NAGTILAK	ME, PhD (perusing)	ASSISTANT PROFESSOR	ELECTRONICS
12	MR. J. M. CHAKALABBI	M.TECH	ASSISTANT PROFESSOR	ELECTRONICS
13	MR.N.N.MANE	M.TECH	ASSISTANT PROFESSOR	ELECTRONICS
14	MR.THAKUR G.S	M.TECH	ASSISTANT PROFESSOR	ELECTRONICS
15	MR.V.N.PATIL	M.E.	ASSISTANT PROFESSOR	ELECTRONICS
16	MS. G.S.VIDHATE	M.TECH	ASSISTANT PROFESSOR	ELECTRONICS

11. List of senior visiting faculty:

Sr. No.	Visiting Faculty	Department
1	Dr.V.R.Udupi	Gogate Institute of Technology, Belgaum
2	Dr.G.R.Udupi	Gogate Institute of Technology, Belgaum
3	Dr.R.K.Kamat	Electronics, SUK
4	Dr.R.R.Mudholkar	Electronics, SUK
5	Dr.P.J.Kulkarni	WCE,Sangli
6	Dr.Rawat	Mumbai
7	Dr.B.V.Shinde	Pune
8	Dr.Manjarekar	Mathematics,SUK
9	Prof.D.V.Kodavde	DKTE,Ichalkaranji
10	Prof.S.N.Kore	WCE,Sangli
11	Dr.S.Subbaraman	WCE,Sangli

12. Percentage of lectures delivered and practical classes handled (programme wise) by   temporary faculty:

   - Nil

13. Student -Teacher Ratio (programme wise): 1:14

14. Number of academic support staff (technical) and administrative

staff; sanctioned and filled:

Academic Support Staff (Technical)

Sanctioned: 05

Filled   : 05

Administrative Staff

Sanctioned: 07

Filled   : 07

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ M.Phil/PG./MASLP**

Sr. No.	NAME OF THE FACULTY	QUALIFICATION
1	DR. VAINGANKAR ANIL SHANTARAM	PhD
2	DR. CHAVAN MAHESH S.	ME, PhD
3	DR. PATIL YUVARAJ MAHADEO	ME, PhD
4	MRS. DIXIT MANASI. R.	ME, PhD (perusing)
5	MR. NIGAVEKAR ATUL RAVICHANDRA	ME
6	MR. RENKE AMAR L.	ME, PhD (perusing)
7	MR. PATIL VIJAYKUMAR V.	ME
8	MR. MOHITE ANIL S.	M.TECH
9	MRS. MADHURA V. GANGAPURE	ME
10	MR.S.S.NAGTILAK	ME, PhD (perusing)
11	MR. J. M. CHAKALABBI	M.TECH
12	MR.N.N.MANE	M.TECH
13	MR.THAKUR G.S	M.TECH
14	MR.V.N.PATIL	ME
15	MS. G.S.VIDHATE	M.TECH

16. **Number of faculty with ongoing   projects from   a) National b) International funding agencies and grants received:**

   - **National:** Nil

   - **International funding agencies:** Nil

   - **Total 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: Yes**
19. **Publications:**
    a) **Publication per faculty**

DETAILS OF FACULTY PUBLICATIONS

SR. NO	NAME OF THE FACULTY	2010-11 (No.of Paper presented/ published)		2011-12 (No.of Paper presented/ published)		2012-13 (No.of Paper presented/ published)		2013-14 (No.of Paper presented/ published)		Total
		National	Inter-national	National	Inter-national	National	Inter-national	National	Inter-national	
1	DR. CHAVAN MAHESH S.	01	01	01	01	01	01	---	01	7
2	DR. PATIL YUVARAJ M.	02	02	01	02	01	01	---	---	9
3	MRS. DIXIT MANASI. R.	-	2	2	2	1	2		06	15
4	MR. NIGAVEKAR ATUL R.	2	1	2	1	2	1	1	-	10
5	MR. DESAI VIVEK K.	---	---	---	---	---	---		---	--
6	MR. RENKE AMAR L.	02	---	---	---	---	---	01	---	3
7	MR. PATIL VIJAYKUMAR V.	---	---	---	---	---	---	01	---	1
8	MRS. M. V. GANGAPURE	01	---	---	---	---	---	01	---	2
9	MR. MOHITE ANIL S.	01	05	-		02	-	-	-	8
10	MR.S.S.NAGTILAK	-	01	-	01	-	01	-	01	4
11	MR. J. M. CHAKALABBI	01	---	---	---	---	01		---	2
12	MR.N.N.MANE	---	---	---	2	1	1		---	4

- **Monographs -** Nil
- **Chapter in Books -** Nil
- **Books Edited –** Yes(02)
- **Books with ISBN/ISSN numbers with details of publishers -** Nil
- **Citation Index-** Nil
- **SNIP -**Nil
- **SJR -** Nil
- **Impact factor -** Nil
- **h-index** – Nil

20. Areas of consultancy and income generated: Nil

21. Faculty as members in a) National committees b) International

Committees c) Editorial Boards : Nil

22. Student projects
- Percentage of students who have done in-house projects including inter departmental/programme: **90%**

- Percentage of students placed for projects in organizations outside the

institution i.e.in Research laboratories/Industry/other agencies: **10%**

23. Awards/ Recognitions received by faculty and students:

For Faculty: Nil

For Students:

STUDENTS ACHIEVEMENTS

YEAR	EVENT	NATIONAL	
		1ST PRIZE	2ND PRIZE
2010-11	PAPER PRESENTATION	01	02
	TECHNICAL EVENTS	04	-
2011-12	PAPER PRESENTATION	03	03
	TECHNICAL EVENTS	03	12
2012-13	PAPER PRESENTATION	05	04
	TECHNICAL EVENTS	-	-
2013-14	PAPER PRESENTATION	04	05
	TECHNICAL EVENTS		

24. List of eminent academicians and scientists/ visitors to the department:

The following resource persons have visited the institute and conducted state level

Conference/seminar:

1. Dr.Raghunath Mashelkar, Director CSIR, New Delhi.
2. Dr. Achyut Godbole,
3. Mr.Atul Kahate,Writer
4. Mr.Vaidya ,
5. Dr.Vinay Vaidya,KPIT,Head Crest
6. Dr.K.Kamal, Director DST, Delhi.
7. Dr.Saundatti,Ex Vice-chancellor,VTU,Belgaum
8. P. Raghunath,Gazhiabad
9. Dr. A.C. Bhagali,Sanjay Bhokare COE, Miraj
10. Mr.Sudarshan Natu,NITAL Computers,Pune.
11. Dr.Pitake M.V. Ex-Chairman, IEEE Bombay Section.
12. Mr.Vinit Kotak,Student Branch Counsellor, IEEE Bombay Section.
13. Dr.R.V.Bhosale,Professor,Emiratas,SUK

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

a) **National**   2009-10

SR. NO.	DATE	DESCRIPTION	ORGANIZED BY	PARTICIPANT
1		ELECTROFEST 2K11 STATE LEVEL TECHNICAL FESTIVAL • ROBORACE • PICK & PLACE ROBO CONTEST • ROBO WAR • PROJECT EXHIBITION • CIRCUIT DESIGN CONTEST • 8085 PROGRAMMING CONTEST • QUIZ COMPETITION • PRODUCT MARKETING COMPETITION	EESA & DEPT. OF ELECTRONICS ENGG.	PARTICIPANTS FROM VARIOUS COLLEGES WITHIN THE MAHARASHTRA STATE

2012-13

Sr. No.	Date	Description	Venue	Guest / Resource person	Participants / Audience
1	14th July 2012	IEEE Students Chapter Inauguration	Seminar Hall	• Dr. M. V. Pitake Ex-chairman IEEE Bombay Section	• Department of electronics engineering
2	20th July 2012	M. E. Reopening	Lecture Theatre	Dr. A. S. Vaingankar Hon. Professor	• Staff members of Electronics Department • M. E.– E . T. C. Students
3	5th Aug. 2012	ORCAD Workshop	Lecture Hall No. 17	Mr. S. S. Upadhye CAD Design Engineer, InnLink technology	• U.G. students
4	5th Sept. 2012	Teacher's day	Lecture Hall No. 17, Laboratories	Students of B. E. Electronics	• Students of S. E., T. E. Electronics
5	15th Sept. 2012	Engineer's Day	Seminar Hall	Mr. Suresh Hundre Industrialist - PolyHydron, Belgaum	• Department of electronics engineering

2013-14

SR. NO.	EVENT	TYPE OF EVENT	RESOURCE PERSON	DATE OF EVENT	TARGET GROUP	FACULTY COORDINATOR
1	IIT WORKSHOP ON ANALOG	IIT WORKSHOP	EMINENT FACULTY FROM IIT	4TH JUNE TO 14TH JUNE 2013	FACULTY	DR. M. S. CHAVAN

	ELECTRONICS		KHARAGPUR			
2	IIT WORKSHOP ON SIGNALS AND SYSTEMS	IIT WORKSHOP	EMINENT FACULTY FROM IIT KHARAGPUR	2ND JAN. TO 12TH JAN. 2014	FACULTIES OF THE DEPARTMENT	MR. Y. M. PATIL
3	ELECTROFEST 2014	ELECTRONIC FESTIVAL	MR. S P. PATIL SIT MR. S. V. LIPARE KIT	21/01/2014	STUDENTS FROM ALL OVER MAHARASHTRA	MRS. M. V. GANGAPURE
4	PIONEER 2014	NATIONAL LEVEL PAPER PRESENTATION	DR. A.C. BHAGALI SANJAY BHOKARE COE, MIRAJ	22/01/2014	STUDENTS FROM ALL OVER INDIA	MR. Y. M. PATIL

b) International

   - Nil

26. Student profile programme/course wise:

Year	Name of the Course/programme	Applications received	Selected	Enrolled	
				*M	*F
2010-11	Electronics Engineering	61	61	34	27
2011-12	Electronics engineering	60	60	32	28
2012-13	Electronics engineering	60	57	26	31
2013-14	Electronics engineering	60	57	26	31

   *M=Male F=Female

27. Diversity of Students (Data to be filled centrally)

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
Electronics Engineering	**95**	**5**	**-**

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc? : 10

29. Student progression

Student progression	Percentage %
UG to PG	15
PG to Ph.D.	02

Employed	38
• Campus selection	-
• Other than campus recruitment	-

30. Details of Infrastructural facilities

- Laboratory Space (11):- 1105.10 sq. m.
- Class – rooms   (3)   :- 351.96 sq. m.
- Lecture Theatre (1)   :- 78.00 sq.m.
- Departmental Library (1):- 38.00 sq. m.
- H.O.D. Office (1)   :-   36.72 sq. m.
- Total Carpet Area   :-   1609.78 sq. m.
- Total Space   :-   2092.71 Sq. m.
- LCD Projector   : 03
- Overhead Projector   : 04
- Video CDs   : 45
- Printed Charts   : 20
- PCs   :104 [98 (P-IV)+ 2 (server) +4 (PIII)]
- Networking &   : Leased Line: 10 MBPS
- Internet facility   :Available
    - Library – YES
      Departmental Library (Coordinator: Mr. A.S.Mohite)
        - No. of Titles :   : 689
        - No. of Volumes :   : 1168
        - Others: : 231
    (CDs, Catalogues, Project Reports, Magazines etc)
    - Internet facilities for Staff & Students –YES; WI-FI facility is given
    - Class rooms with ICT facility- YES classrooms-2
    - Laboratories –YES   labs-11

31. Number of students receiving financial assistance from College, university, government or other agencies

Year	SCHOLARSHIP & FREESHIP	EBC	STC	PTC	HANDICAP	MINORITY	CENTRAL SECTOR
2013-14	107	60	4	2	-	1	5
2012-13	87	52	7	6	1	3	7
2011-12	85	51	4	5	-	1	4
2010-11	91	44	10	2	-	1	1

32. Details on student enrichment programmes (special lectures / workshops / seminars) with external experts

SR. NO.	TITLE OF THE PROG	DEPARTMENT OF BENEFICIA	COLLABORATION	DURATION	REMARKS
1.	ORCAD WORKSHOP	ELECTRONICS ENGINEERING	DEVELOPMENT ENGINEER, IN-LINK SYSTEMS,KOLHAPU	ONE WEEK FOR SE ELECTRONICS STUDENTS	CERTIFIED BY KOLHAPUR
2.	ADVANCES IN VLSI USING SIGNAL PROCE	ELECTRONICS ENGINEERING	ISTE AND KITCOE	TWO WEEKS STTP	CERTIFIED BY KOLHAPUR
3.	ANALOG ELECTRONI	ELECTRONICS ENGINEERING	IIT KHARAGPUR, KITCOEK	TWO WEEKS STTP	CERTIFIED BY KHARAGPUR
4.	SIGNAL PROCESSING	ELECTRONICS ENGINEERING	IIT MUMBAI, KITCOEK	TWO WEEKS STTP	CERTIFIED BY MUMBAI

33. Teaching methods adopted to improve student learning: Yes.

They are:

- Multimedia Presentation.
- Use of ICT
- Interactive teaching
- Skills lab
- White Board
- Flipped Class
- Over Head Projector (OHP)
- Group Discussions

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Public Awareness Camps
- NSS camp

35. SWOC analysis of the department and future plans

- **Strengths**

  - Good rapport at Regional Level.
  - Sufficient Infrastructure.
  - Adequate number of experienced Faculty .
  - Sufficient Supporting Staff.
  - Adequate Books / Indian Journals in Dept. Lib.
  - In-house developments.
  - Interaction with the regional industry.
  - Qualified, Competent and Committed teaching and non – teaching staff.
  - Good community support

- o **Weakness**
    - Government restriction for revenue generation
    - R & D funds
    - Consultancy.

- o **Opportunities**
    - Establishment of training programmes for teaching staff
    - Establishing a state-of -art research center
    - Introduction of additional specializations.
    - Introduction of new health professional courses.

- o **Challenges**
    - Growing interference and restrictions from statutory bodies.
    - Non availability of experienced and senior staff in certain areas.

Road Map/Future plan
- Developing specialty
- Developing PhD programmes.
- Developing Research Environment
- M.E.(VLSI-Embedded)
- Collaboration with foreign universities
- Generation of research funding
- Collaboration with National Research Laboratories
- CSIR Collaboration
- Direct Second Year Division(for Diploma Students)

DEPARTMENT OF ENVIRONMENTAL ENGINEERING

1. Name of the department: **Environmental Engineering**

2. Year of Establishment: **1983**

3. Names of Programmes / Courses offered: **UG**

4. Names of Interdisciplinary courses and the departments/units involved:

Following Interdisciplinary courses are involved in curriculum of programs:

SN	Name of Interdisciplinary course	Department
1	Engineering Mathematics – III	Mathematics
2	Environmental Chemistry	Chemistry
3	Environmental Microbiology	Biotechnology
4	Programming Laboratory	Information Technology
5	Environmental Geology	Civil Engg.

5. Annual/ semester/choice based credit system (programme wise): **Semester**

6. Participation of the department in the courses offered by other departments: **NA**

7. Courses in collaboration with other universities, industries, foreign institutions, etc. : **NA**

8. Details of courses/programmes discontinued (if any) with reasons : **NA**

9. Number of Teaching posts

	Sanctioned	Filled
Professors	01	--
Associate Professors	04	2
Asst. Professors	12	7 (Approved) 3 (Adhoc)

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
R.A.Nikam	M.E. (Civil)	Asso. Prof.	Structures	26 yrs	Nil
S.V.Kulkarni	M.E. (Env)	Asso. Prof.	Env. Engg.	27 yrs	Nil
S.S.Shaha	M.E. (Env)	Asso. Prof.	Env. Engg.	25 yrs	Nil
P.S.Saler	M.E. (Env)	Asst. Prof.	Env. Engg.	07 yrs	Nil
P.K.Jadhav	B.E. Civil	Asst. Prof.	--	06 yrs	Nil
A.A.Katkar	M.Tech (Env)	Asst. Prof.	Env. Engg.	06 yrs	Nil
B.C.Ingavale	M.Tech	Asst. Prof.	Env. Engg.	03 yrs	Nil
K.M.Kangle	M.Tech (Env) M.B.A.	Asst. Prof.	Env. Engg.	07 yrs	Nil
M.N.Sarnobat	M.Tech (Env)	Asst. Prof.	Env. Engg.	03 yrs	Nil
N.B.Chougule	M.Tech (Env)	Asst. Prof.	Env. Engg.	02 yrs	Nil
P.S.Rajgolikar	M.Tech (Env)	Asst. Prof.	Env. Engg.	02 yrs	Nil
S.S.Joshi	B.E.Env.	Asst. Prof.	--	02 yrs	Nil

11.   List of senior visiting faculty – Mr. B.C. Nadaf

12.   Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Year	term	No. of Temporary Faculties	Lectures Delivered		Practical classes handled	
			No.	%	No.	%
2013-14	I	4	29	30.52	39	36.23
	II	5	19	28.36	53	44.91
2012-13	I	6	32	30.76	76	58.46
	II	6	21	28.37	68	42.76
2011-12	I	5	44	51.16	38	30.16
	II	5	30	41.09	50	33.78
2010-11	I	6	40	51.94	62	46.26
	II	7	46	54.76	83	58.87

13. Student -Teacher Ratio (programme wise)

Year	term	No. of Teachers	No. of Students	Student -Teacher Ratio
2010-11	I	11	142	12.90
	II	12	142	11.83
2011-12	I	11	160	14.55
	II	11	160	14.55
2012-13	I	14	175	12.50
	II	13	175	13.46
2013-14	I	14	176	12.57
	II	14	176	12.57

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

    Sanctioned – 2   Appointed - 2

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Name	Qualification
R. A. Nikam	M.E. (Civil)
S. V. Kulkarni	M.E. (Env)
S. S. Shaha	M.E. (Env)
P. S. Saler	M.E. (Env)
A. A. Katkar	M.Tech (Env)
B.C.Ingavale	M.Tech
K. M. Kangle	M.Tech (Env), M.B.A.
M. N. Sarnobat	M.Tech (Env)
N. B. Chougule	M.Tech (Env)
P. S. Rajgolikar	M.Tech (Env)

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 : **NA**

19. Publications:

Name of the Faculty	No of national publications	No of international publications
Mr. R. A. Nikam	6	2
Mr. S. V. Kulkarni	--	1
Mr. S. S. Shaha	3	2

Name of the Faculty	No of national publications	No of international publications
Mrs P. S. Saler	1	3
Mr. A. A. Katkar	1	1
Mr. P.K. Jadhav	4	2
Mrs. M. N. Sarnobat	3	--
Mr. Kiran M. Kangle	7	2
Ms. N. B. Chougule	2	--
Ms. Prachi S. Rajgolikar	2	--
Mr. S. S. Joshi	5	3

- Number of papers published in peer reviewed journals (national /international) by faculty and students - **4**
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)- **Nil**
- Monographs - **Nil**
- Chapter in Books - **Nil**
- Books Edited- **Nil**
- Books with ISBN/ISSN numbers with details of publishers- **Nil**
- Citation Index – **Nil**
- SNIP - **Nil**
- SJR - **Nil**
- Impact factor As given above
- h-index - **Nil**

20. Areas of consultancy and income generated

Year	Name of the Project	Type of consultancy	Funding Agency	Amount Received (Rs.)
2002-03	Calculation of pollution load expansion	Intelectual Consultancy Work	Gharda Chemicals, Lote Parashram Chiplun	30,000
	Calculation of pollution load expansion	Intelectual Consultancy Work	Gharda Chemicals, Lote, Dombiwali	30,000
2003-04	Preparing Env. Site appraisal reports for various building schemes in Mumbai, Thane required for obtaining Env. Clearance of the project	Site appraisal report	Patil Builders, Mumbai	1,00,000 1,00,000 50,000 50,000
2005-06	Sampling of Wastewater & air	Laboratory Analysis	Bharat Dairy, DSK Toyato	5000 10,000
	Pollution Prevention and	Preparation of	Kolhapur	22,00,000

Year	Name of the Project	Type of consultancy	Funding Agency	Amount Received (Rs.)
	Conservation of Rankala Lake at Kolhapur, Maharashtra	DPR	Municipal Corporation, Kolhapur	
2006-07	Preparation of DPR for Conservation and Revival of Mansi Ganga Lake at Govardhan, Mathura, Uttar Pradesh (Sanctioned cost Rs. 22.59 crores)	U P Jal Nigam, Uttar Pradesh	2006-07	4,00,000
2008-09	Pollution Prevention and Conservation of Laxmi Lake at Jhansi, Uttar Pradesh	Preparation of DPR	U. P. Jal Nigam, Uttar Pradesh	16,00,000
2010-11	Pollution Prevention and Conservation of Ramgarh Lake at Gorakhpur, Uttar Pradesh	Preparation of DPR	U. P. Jal Nigam, Uttar Pradesh	4,00,000
		Expert Advisory Consultancy for execution of project	U. P. Jal Nigam, Uttar Pradesh	3,00,000
	Pollution Prevention and Conservation of Laxmi Lake at Jhansi, Uttar Pradesh	Preparation of DPR	U. P. Jal Nigam, Uttar Pradesh	13,50,000
2011-12	Pollution Prevention and Conservation of Ramgarh Lake at Gorakhpur, Uttar Pradesh	Expert Advisory Consultancy for execution of project	U. P. Jal Nigam, Uttar Pradesh	4,00,000
	CSP of Kolhapur	Preparation of detailed city sanitation plan of Kolhapur	Kolhapur Municipal Corporation, Kolhapur	4,00,000
	Industrial Service	Wastewater Analysis	Mehta Dairies Unity Consultants Pvt. Ltd. Patki Joshi Engg. Isha Rajurikar Toyota Kirloskar Motors	1000 1050 3050 800 1980 25000
2012-13	Pollution Prevention and Conservation of Ramgarh Lake at Gorakhpur, Uttar Pradesh	Expert Advisory Consultancy for execution of project	U. P. Jal Nigam, Uttar Pradesh	14,66,700
	Industrial Service	Wastewater Analysis	Mehta Dairies Gokul Shirgaon & ATE Envirotech Pvt. Ltd.	1710 2420

Year	Name of the Project	Type of consultancy	Funding Agency	Amount Received (Rs.)
2013-14	Pollution Prevention and Conservation of Ramgarh Lake at Gorakhpur, Uttar Pradesh	Expert Advisory Consultancy for execution of project	U. P. Jal Nigam, Uttar Pradesh	7,00,000
	Industrial Service	Wastewater Analysis	Mehta Dairies Gokul Shirgaon	1660 1200 1410 1410
	Total			**96,34,390**

21. Faculty as members in

   a) National committees - Nil

   b) International Committees - Nil

   c) Editorial Board - Nil

22. Student projects

   a) Percentage of students who have done in-house projects including inter departmental/programme – Nil

   b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies - Nil

23. Awards / Recognitions received by faculty and students:

   a) S. S. Shaha - Accredited Functional Area Expert (FAE) for Water Pollution (WP) and Solid Waste Management (SWM) under NABET Scheme by Quality Council of India (QCI)

24. List of eminent academicians and scientists / visitors to the department- Nil

25. Seminars/ Conferences/Workshops organized & the source of funding

   a) National

2007 -2008

Envisafe08- National conference on Environmental safety Jointly organized by Dept. of Environmental Engineering, and IIF, Kolhapur chapter during 12th - 13th Jan 2008

2012-13

National conference on -Manufacturing Excellence through Lean, Green & Safety Practices national Conference Jointly organized by Dept. of Environmental Engineering, Dept. of Mechanical Engg. and Dept. of Production Engg.-8th – 9th Feb 2013

a. International - Nil

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
Env.Engg.	**N.A**				

*M = Male   *F = Female

27. Diversity of Students

Name of the Course	Year	% of students from the same state	% of students from other States	% of students from abroad
Environmental Engineering	2010-11	98	2	Nil
	2011-12	98	2	Nil
	2012-13	100	Nil	Nil
	2013-14	96	4	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	2010-11	2011-12	2012-13	2013-14
Total No of Students	35	36	62	66
Qualified for GATE	-	-	8	3
Percentage	0	0	12.90 % (= 8 / 35)	4.5

29. **Student progression**

Student Progression	2010-11	2011-12	2012-13	2013-14
No of Students on Roll	35	36	62	66
UG to PG (%)	17 (6/35)	14 (5/36)	34 (21/62)	NA
PG to M.Phil.				
PG to Ph.D.				
Ph.D. to Post-Doctoral				
Employed • Campus selection (%)	37 (13/35)	8 (3/36)	14 (9/62)	9 (6/66)
• Other than campus recruitment				
Entrepreneurship/Self-employment				

30. Details of Infrastructural facilities

   a. Library –

No. of Text Books	Reference Book	Journals
54	18	Nil

   b. Internet facilities for Staff & Students

   c. Class rooms with ICT facility : 2

   d. Laboratories: 5 – (Chemistry + Env. Engg.+ Air Pollution + RSGIS + Project)

      Shared Laboratories – 5 – (Fluid Mechanics + Geotechnology + Surveying + Microbiology + Geology)

31. Number of students receiving financial assistance from college, university, government or other agencies :

Type of scholarship	State/Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt	Nil	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	2	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	46	SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
AICTE New Delhi	Central Govt.	Nil	8,000/- per month
J&K Scholarship	Central Govt.	Nil	15000/-
EBC	State Govt	22	50% of Tuition Fee
STC PTC	State Govt	5+3	4000/-
Handicap Scholarship	State Govt	Nil	As per fee Receipt

- **Scholarship for the year 2010-11**

- **Scholarship for the year 2011-12**

Type of scholarship	State/Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt	1	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	4	20000/- or 25000/-
OBC SBC VJNT SC ST Student	State Govt	62	SBC VJNT ST 100% tuition fee & Exam fee

Scholarship			OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
AICTE New Delhi	Central Govt.	Nil	8,000/- per month
J&K Scholarship	Central Govt.	Nil	15000/-
EBC	State Govt	28	50% of Tuition Fee
STC PTC	State Govt	4+6	4000/-
Handicap Scholarship	State Govt	Nil	As per fee Receipt

- **Scholarship for the year 2012-13**

Type of scholarship	State/Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt	2	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	5	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	60	SBC VJNT ST 100% tution fee & Exam fee OBC 50% Tution fee & Exam fee SC 100% tution fee, Exam fee & devlopment Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tution fee & Exam fee OBC 50% Tution fee & Exam fee SC 100% tution fee, Exam fee & devlopment Fee
AICTE New Delhi	Central Govt.	Nil	8,000/- per mounth
J&K Scholarship	Central Govt.	Nil	15000/-
EBC	State Govt	35	50% of Tution Fee
STC PTC	State Govt	0+4	4000/-
Handicap Scholarship	State Govt	Nil	As per fee Receipt

- **Scholarship for the year 2013-14**

Type of scholarship	State/Central	No.of Students	Amount of scholarship
Central Sector Scholarship	State Govt	4	FE To TE 10,000/- or BE 20,000/-

Minority	State Govt	3	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	57	SBC VJNT ST 100% tution fee & Exam fee OBC 50% Tution fee & Exam fee SC 100% tution fee, Exam fee & devlopment Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tution fee & Exam fee OBC 50% Tution fee & Exam fee SC 100% tution fee, Exam fee & devlopment Fee
AICTE New Delhi	Central Govt.	Nil	8,000/- per mounth
J&K Scholarship	Central Govt.	Nil	15000/-
EBC	State Govt	40	50% of Tution Fee
STC PTC	State Govt	2+3	4000/-
Handicap Scholarship	State Govt	Nil	As per fee Receipt

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts :
    2011-12
    - Internal Auditor Programme on EMS & OHSAS
      Duration: 4th to 7th August 2011
      No of Participants: 42
    - Internal Auditor Programme on EMS & OHSAS
      Duration: 24th & 25th March 2012 & 11th & 12th April 2012
      No of Participants: 32

    2012-13
    - Internal Auditor Programme on EnMS
      Duration: 21st & 22nd Aug 2012
      No of Participants: 34
    - Internal Auditor Programme on Carbon Footprint
      Duration: 8th & 9th October 2012
      No of Participants: 43
    - Resource Organization: SGS India Pvt Ltd Bangalore
      Participants: TE & BE Environmental Engineering Students
      Internal Auditor Programme on EMS & OHSAS
      Duration: 2nd to 5th April 2013
      No of Participants: 34

33. Teaching methods adopted to improve student learning
    a. Lecture
    b. Cooperative Learning
    c. Group Discussion

d. Quiz
e. Seminar
f. Lab. Visit
g. Industrial Visit
h. Demo

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

2010-11:
- Ganesh Visarjan- Noise monitoring and idol collection
- Noise Monitoring during Diwali

2011-12:
- Ganesh Visarjan- Noise monitoring and idol collection
- Noise Monitoring during Diwali

2012-13:
- Ganesh Visarjan- Noise monitoring and idol collection
- Noise Monitoring during Diwali

2013-14:
- Ganesh Visarjan- Noise monitoring and idol collection
- Noise Monitoring during Diwali

35. **SWOC analysis of the department and Future plans**
Strength
- Specialized Discipline/Uniqueness
- Experienced Faculty
- Consultancy Services
- Global Scope

Weakness
- Lack of awareness among society
- Low input quality
- Low campus placement
- Less Research Activities

Opportunities
- Increasing complexity of environmental problems
- Changed approach in National & International policies
- Prioritization of environmental issues
- Research & Technological developments

Challenges
- Induction of relevant prerequisites for competitive exams such as GATE/MPSC
- Attracting talented students to Environmental Engineering course
- Increased intake in core branches due to cropping up engineering colleges
- To bring environmental governance in the system

DEPARTMENT OF PRODUCTION ENGINEERING

1. **Name of the Department:** Production Engineering
2. **Year of Establishment** **:** 1983
3. **Name of Programme / Courses offered (UG, PG, etc.)**

Name of Program	Year of Establishment
B.E. (Production Engg)	1983
M.E. (Production Engg.)	2004
M.E. (CAD/CAM/CAE)	2008

4. **Names of Interdisciplinary courses and the Departments/units involved:**

Sr.No.	Name of Interdisciplinary Course	Department
1	Electrical Technology & Electronic Engg.	Electrical Engg & electronics engg.
2	Environmental Science	Environment engg
3	Engg. Mathematics	BS & H

5. **Annual/ semester/choice based credit system (Program wise):**
   Semester based marking system
6. **Participation of the Department in the courses offered by other departments:**

Sr.No.	Courses offered	Department
1	Operation Research & industrial management	Electronics Engg.
2	Basic Mechanical Engg.	BS & H
3	Engg.Graphics	BS & H

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

Sr.No.	Collaboration Industry	Course offered for M.E.	Year	Students No.
1	Knowtran Tech.Pvt.Ltd.	Unigrafics (80 hours)	2011-12	18

8. Details of courses / programmes discontinued (if any) with reasons:

Nil

9. Number of Teaching posts:

Faculty No.	Filled
Professors	02
Associate Professors	02
Asst. Professors	14

10. Faculty profile with Name, Qualification, Designation, Specialization,

Sr.No.	Name of the Faculty	Designation	Qualification, University and year of graduation	Specialization
1	Bhatwadekar Sudhir Ganesh	Head & Asso.Prof.	B.Tech. (Mech.), M.E. (Mech.-Prod.)	Manufacturing, Automation
2	Dr. Bagi Jaydeep Shantikumar	Asso.Prof.	Ph.D (Mech.) M.E.(Mech-Prod), D.M.E	Industrial Engg, QMS, Prod.Mgmt
3	Naik Girish Ramchandra	Asso.Prof.	B.E. (Indl. Prod.), M.E. (Mech.-Prod.) D.C.P , D.B.M	Industrial Engg., Prod.Mgmt
4	Madhale Ajay Krishnarao	Asst.Prof. & Workshop Incharge	B.E. (Prod.)	Measurement& Quality
5	Powar Prashant Prakash	Asst.Prof.	PhD (ongoing) ME (Mech Prod), B.E. (Mech.)	Manufacturing (Metal Cutting)
6	Kadane Sandeep Madhukar	Asst.Prof.	M.E. (Mech-Prod.), C/DAC	Automation
7	Kulkarni Gururaj Ramkrishna	Asst.Prof.	B.E. (Prod.), M.Tech(Mfg.Tech.)	Design & Manufacturing
8	Sangale Sandesh Balwant	Asst.Prof.	M.E.(CAD/CAM/CAE)	CAD/CAM/CAE
9	Thakur Harshad M.	Asst.Prof.	MS (Ind.Engg.)	Industrial Engg.
10	Mrs. Khan Jahida Niyaz	Asst.Prof.	B.E. (Production), M.E.(Mech-Prod)	Industrial Engg, QMS, Prod.Mgmt.
11	Kamble Bhushan Shankar	Asst.Prof.	B.E. (Production), M.E.(Mech-Prod)	Manufacturing
12	Patil Ranjit Sadanand	Asst.Prof.	B.E.(Prod.), M.Tech (Mfg.Tech.)	Manufacturing

Sr.No.	Name of the Faculty	Designation	Qualification, University and year of graduation	Specialization
13	Gad Rishikesh Raghvendra	Asst.Prof.	B.E. (Mech.), M.Tech. (Design Engg.)	Design Engineering
14	Shah Shailesh Jayantilal	Asst.Prof.	B.E. (Prod), M.E.(Mech-Prod)	Manufacturing
15	Vaidya Amit Suresh	Asst.Prof.	B.E. (Prod.), M.E.(Mech-Prod)	Production Engg
16	Kubade Praveen R.	Asst.Prof.	B.E. (Prod.) M.E.(Mech-Prod)	Manufacturing & Automation
17	Soudagar F.M	Asst.Prof.	B.E. (Prod.)	Manufacturing & Design

11. List of senior visiting faculty:
   1.) Prof. V.S.Shinde, KIT's IMER
   2.) Dr. Chetan Jarali, Adjunct Professor, NAL, CSIR, Bangolare.

12. Percentage of lectures delivered and practical classes handled (programme wise) by
 temporary faculty
: Nil

13. Student -Teacher Ratio (program wise):
 1:15

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:
Academic Support Staff (Technical)
Sanctioned: 05
Filled   :   03
Administrative Staff
Sanctioned: Nil
Filled   :   Nil

15. Qualifications of teaching faculty with Ph.D/PG./BE

PH.D awarded	01
Ph.D. Registered Faculty with PhD	04
M.E. / M.Tech Completed	10
M.Tech. Appeared	02

16. Number of faculty with ongoing projects from a) National b) International funding   agencies and grants received:
   ▪ **National:** Nil
   ▪ **International funding agencies:** Nil

▪ **Total grants received:** Nil

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Sr. No.	Project funded by	Project title	Duration	Amount received in Rs.	Project status
1	AICTE	MODEROB of workshop (purchased advanced cnc machine.)	1 year	13,00,000./-	Completed in 2013

18. Research Centre /facility recognized by the University
: In process

19. Publications:
i. **Publication per faculty**

Sr. No	name of the faculty	2010-11 (No.of Paper presented/published)		2011-12 (No.of Paper presented/published)		2012-13 (No.of Paper presented/published)		2013-14 (No.of Paper presented/published)	
		National	International	National	International	National	International	National	International
1	S.G. Bhatwadekar	2	4		3				
2	Dr.J.S.Bagi	2							
3	G.R.Naik	2	1	3					
4	A.K. Madhale						1		
5	P.P.Powar							1	3
6	S.M.Kadane	2	1						
7	S.B.Sangle	1							
8	J.N.Khan					1			

▪ **Monographs -** Nil
▪ **Chapter in Books -** Nil
▪ **Books Edited -** Nil
▪ **Books with ISBN/ISSN numbers with details of publishers -** Nil
▪ **Citation Index-** Nil
▪ **SNIP -**Nil
▪ **SJR -** Nil
▪ **Impact factor -** Nil
▪ **h-index** – Nil

20. Areas of consultancy and income generated:

Sr.No.	Title	Income in RS.
01	A Seminar World Class Manufacturing " Lean And Green manufacturing and safety practices " 2013 In Collaboration With Mechanical Department	
02	A Seminar World Class Manufacturing " Lean And Green manufacturing " 2012 In Collaboration With Mechanical Department	

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards

Sr.No.	Name of faculty member	Name of institutional bodies	Details
1	S.G.Bhatwadekar	ISTE,IE(I),IIPE	LM, M, LF
2	Dr.. J.S.bagi	IE(I), ISTE	Committee Member & LM
3	G.R.Naik	ISTE, INAAR	LM, LM
4	A.K.Madhale	ISTE	LM
5	P.P.Powar	ISTE	LM
6	S.M.Kadane	ISTE	LM
7	G.R.Kulkarni	ISTE	LM
8	S.B.Sangle	ISTE	LM
9	H.M.Thakur	ISTE	LM
10	Mrs.J.N.Khan	ISTE	LM
11	B.S.Kamble	ISTE	LM
12	Soudagar F.M	ISTE	LM

22. Student projects
- Percentage of students who have done in-house projects including inter departmental/program:
  10%
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:
  90%

23. Awards/ Recognitions received by faculty and students:
   : Faculty

Sr.No.	Name of faculty	Award	Recognition
1	Dr.J.S.Bagi	-----	BOS chairman, PG
2	S.G.Bhatwadekar	------	PG
3	P.P.Powar	-----	PG
4	G.R.Naik	------	PG
5	P.R.Kubade	-----	PG
6	H.M.Thakur	-----	PG

Awards / Recognitions received by students:

University Rankers Production Engineering Department.

Academic year	2010 -11	2011 –12	2012 --13	2013--14
No.of rank holders	1	4	5	2

Year	Activity	National/State/University	
		1st prize	2nd prize
2010-11	Paper presentation		1
	Technical events	8	8
2011-12	Paper presentation	1	--
	Technical events	3	4
2012-13	Paper presentation	1	--
	Technical events	2	4
2013-14	Paper presentation	1	--
	Technical events	1	6

24. List of eminent academicians and scientists/ visitors to the department:

The following resource persons have visited the institute and conducted state level Conference/seminar:

1) Mr P V Sarode, Dy. Director, DTE, pune region, visited department during

   National Level Technical paper presentation competition, (pioneer 2014)

2) Mr A V Kulkarni,MD, Anukool engineers, kolhapur, visited department during

National Level Technical paper presentation competition, (pioneer 2014)

3) Mr.P.K.Desai,Vice President ISTE New Delhi visited during National Level
   Technical paper presentation competition, (pioneer 2014)
4) Mr.Nikhil Padte, Jangs Tech visited department for during seminar for M.E.
    students
5) Dr.Khod M.P. from COE,Pune visited during M.E. exam.
6) Dr.Dabade.V.A. from Walchand college of engg., Sangli during M.E. exam.
7) Dr.tripathi v.k., from coe,pune visited during m.e. exam.
8) Dr.V.M.Phalle ,VJTI,Matunga ,Mumbai visited during M.E.exam
9) Prof.P.P.Mitragotri, Walchand institute of tech, Solhapur visited during M.E.
    exam.
10) Prof.(Dr.)Phulambrikar, Pimpari-Chichwad college of engg. visited during M.E.
    exam.
11) Mr.Sanjay Sutar, Manager (HR),Raymonds limited during campus placement.
12) Dr.Sachin D.Kore, IIT,Guwahati conducted seminar for B.E Mech/Prod.engg.students.

25. **Seminars/ Conferences/Workshops organized and the source of funding**
    a) **National**
         -nil
    b) **International**
          - Nil
26. **Student profile programme /course wise:**

Name of the Course/programme	Year	Applications received	Selected	Enrolled *M	*F
B.E.Production engg.	2010-2011	NA	61	56	5
B.E.Production engg.	2011-2012	NA	62	55	7
B.E.Production engg.	2012-2013	NA	61	58	3
B.E.Production engg.	2013-2014	NA	59	54	5
B.E.Production engg.	2014-2015				

Name of the Course/programme	Year	Applications received	Selected	Enrolled *M	*F
M.E.Production engg.	2011-2012	NA	18	17	1
M.E.Production engg.	2012-2013	62	18	16	2
M.E.Production engg.	2013-2014	NA	18	17	1
M.E.Production engg.	2014-2015				

*M=Male F=Female

27. Diversity of Students

Name of the Course & year B.E. Production engg.	% of students from the same state	% of students from other States	% of students from abroad
10-11	98.37	1.63	Nil
11-12	100	Nil	Nil
12-13	98.37	1.63	Nil
13-14	98.33	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc?

Sr.No.	Competitive exams	Year	Qualified Students No
1	GATE	10-11	---
2	GATE	11-12	---
3	GATE	12-13	02
4	GATE	13-14	06
5	Civil services		

29. Student progression

Student progression	Against % enrolled			
UG to PG- 2011-12	15			
UG to PG- 2012-13	20			
UG to PG- 2013-14	24			
Employed	10-11	11-12	12-13	13-14
• **Campus selection**	26	29	03	04
• **Other than campus**	-	-	04	-

Entrepreneurship/Self-employment	------------------

30. Details of Infrastructural facilities

- Library – YES

Department	No.of Titles	No.of Volumes	No.of Journals	
			National	Internationl
Production Engg,	2830	8292	06	345

- Internet facilities for Staff & Students –YES; WIFI facility is available
- Class rooms with ICT facility- YES classrooms-2
- Laboratories –YES labs-13

31. Number of students receiving financial assistance from College, university, government or other agencies

Production Engg.Dept.				
Title	2013-14	2012-13	2011-12	2010-11
Scholarship & Freeship	99	87	77	74
EBC	60	55	51	41
STC	2	2	10	9
PTC	2	1	3	3
Minority	3	1	5	Nil
Central Sector	6	7	3	Nil

32. Details on student enrichment programmes (special lectures / workshops / seminars) with external experts

- "Udyojak"-An open interview with Entrepreneurs namely Mr.Prasad Gulavani (Paramount Micronix),Mr.Devendra Diwan(Indradeep Auto),and Mr.Avinash Panchal(Recline System) for the class of UG Mechanical and Production Engineering students. 28 march2012

- S. G. Bhatwadekar delivered expert lectures on topic "*Career opportunities in Engineering after XII Sc.*" by IE(I) Kolhapur Local Center during 2006-2010

- Dr. J. S. Bagi delivered expert guest lecture on topic "*Career opportunities in Engineering*" by IEI Kolhapur Local center. 6th June2013

- On the occasion of Engineers day a program with guest lecture "**Career for Nation Create Your Deep Impression in Public Services**" is organized Mr.GopalPatil on15 sept 2013

- A guest lecture on "**Engineering Design for Sustainability – Essential tools for 21st century Engineers**" by Prof. Ian Tranter – Sheffield Hallam University, (UK's six largest University) for Final /Pre Final Year Mech/Production students on 9 feb 2012

- Production, Mechanical and Envirnmental Engg. Jointly organized two days **National conference Manufacturing Excellence through on Lean, Green and safe practices.**at Residency club,Kolhapur on 9&10 feb 2013

- 1 day students Entrepreneurship Motivational program, **"Need and scope of Entrepreneurship",** arranged for UG students of Mechanical and Production Engg. And total 100 students attended the program by Mr B.S.Shimpugade on 3 April 2011

- All students of TE Production Engg. attended a two days workshop on "Non Destructive Testing Awareness" conducted by Industry Institute Interaction cell between Indian society for NDT and Dept. of Mechanical and Production Engg.30 &31 August 2013

33. **Teaching methods adopted to improve student learning**
    Yes. They are:
- Multimedia Presentation.
- Use of ICT
- Interactive teaching
- Project/ Model Lab

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities**
- Public Awareness Camps
- NSS camp & their activities with production engg.students

35. **SWOC Analysis of the Department**
   Strengths :
- Qualified and Motivated faculty, Good number of publications
- Good academic reputation of the department
- Excellent liaison with industry
- Good academic performance in spite of average input quality of students

- Strong participation of students in co-curricular activities, and achievements

Weaknesses:
- R & D and Consultancy are not strong
- Funding sources not explored fully
- Input quality in terms of qualifying marks of students is not high
- Employability of graduates needs to be improved.

Opportunities :
- Reputation of department is encashable
- Industry is responsive for interactions
- Departmental resources can be exploited for skill enhancement
- Research enhancement possible through PG projects

Challenges
- Preference of students as well as parents shifting towards basic branches for admissions
- Ever increasing competition from new institutes for admissions as well as facilities
- Fulfilling growing expectations of the industry regarding program contents
- Unawareness of students about career planning leading to lack of motivation
- Exploring new avenues for professional development of faculty

Future Plans:

- To introduce a M.E. Industrial Engg program.
- Develop a Research center in Production Engg.

DEPARTMENT OF CIVIL ENGINEERING

1.   **Name of the department   :   CIVIL ENGG.**
2.   **Year of Establishment   :   1988**
3.   **Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**

Name of the Program	Year of Establishment
UG (Civil Engineering)	1988

4.   **Names of Interdisciplinary courses and the departments/units involved: Following Interdisciplinary courses are involved in curriculum of programs:**
        Following Interdisciplinary courses are involved in curriculum of programs:

Sr. No.	Name of Interdisciplinary course	Department
1	Engineering Mathematics I,II & III	Mathematics
2	Analysis of Machine Elements	Mechanical Engineering
3	Analysis of Machine Elements	Production Engineering

5.   **Annual/ semester/choice based credit system (program wise):->Semester credit system**
6.   **Participation of the department in the courses offered by other departments: Nil**
7.   **Courses in collaboration with other universities, industries, foreign institutions, etc.:   Nil**
8.   **Details of courses/program discontinued (if any) with reasons: Nil**
9.   **Number of teaching posts:**

Post	Sanctioned	Filled
Professors	**02**	**1**
Associate Professors	**05**	**6**
Asst. Professors	**16**	**15**

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. /Ph.D. / M. Phil. Etc.,):

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience
01	Dr. V. V. Karjinni	M. Tech. (Transportation Systems Engg.), Ph.D. (Civil Engineering)	Advisor	Transportation Engg.	30
02	S. G. Dige	B.E. (Civil), M.E. (Structures)	Asso. Prof. & HOD	Structures	25
03	Dr. M. M. Mujumdar	ME(WRE) Ph.D.	Prof.	FM & WRE	24
04	K. G. Hiraskar	B.E. (Civil), M.Tech. (Marine Stru.) PhD Pursuing	Asso. Prof.	CT & Structures	27
05	H. V. Sadolikar	B.E. (Civil), M.E. (Structures)	Asso. Prof.	Structures	24
06	Mrs. V. A. Swami	B.E. (Civil), M.E. (Town Planning) PGDRD, PhD Pursuing	Asso. Prof.	Town Planning & WRE	27
07	S. V. Lipare	B.E. (Civil), M.E. (Structures)	Asso. Prof.	Structures	20
08	Mr. M. A. Chavan	B.E. (Civil), M.E.(Structures), PhD Pursuing	Asso. Prof.	Structures	22
09	Mr. S. S. Varur	B.E. (Civil) , P. G.Dip., M.Tech.(Env.Sci & Tech)	Asst. Prof.	Surveying & GIS	13
10	Mr. S. S. Mane	B.E. (Civil), M.Tech.(Env.Sci & Tech) PhD Pursuing	Asst. Prof.	Env. Engg.	10
11	Mr. S. M. Kolekar	B.E. (Civil), M.E.(Structures)	Asst. Prof.	Structures	12
12	Mr. A. R. Thorvat	B.E. (Civil), M.Tech.(Env.Sci & Tech), PhD Pursuing	Asst. Prof.	Env. Engg &.WRE	07
13	Mr . V. S. Suryawanshi-Patil	B.E. (Civil), M.E. (Civil	Asst. Prof.	Structures	05
14	Mr. A. B. Sawant	B.E. (Civil), M.E (Const.Mgt.)	Asst. Prof.	CT	09

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience
15	Ms. V. G. Waskar	B.E. (Civil), M.Tech (Env. Science & Tech.)	Asst. Prof.	Env. Engg	03
16	Mr. A. D. Patil	B.E., M.Tech (Structural Dynamics)	Asst. Prof.	Structures	01
17	Mrs. S. S. Borchate	B.E. (Civil), M.Tech. (Env.Sci & Tech)	Asst. Prof.	Env. Engg	11
18	Mr. S. B. Mohite	B.E. (Civil), M.Tech (Structure)	Asst. Prof.	Structures	04
19	Mr. S.P. Narvekar	B.E. (Civil), M.Tech(Geotech), PhD Pursuing	Asst. Prof.	Geotech	03
20	Mr. R. V. Nalawade	M.Tech (Contraction Management), PhD Pursuing	Asst. Prof.	C&M	02
21	Mr. S .G. Sawant	B.E. (Civil), M.E. Appear (Construction Management), PhD Pursuing	Asst. Prof.	CT	04
22	Mr. G. A. Chavan	BE (Civil), ME (C&M) Pursuing	Asst. Prof.	C& M	01
23	Mr. A. P. Patil	B.E. (Civil)M.E.(Structures) Pursuing	Asst. Prof.	Structures	01

11.   List of senior visiting faculty   :
(1) Mr. B. C. Nadaf, (2) Mr. K. P. Ashtekar
12.   Percentage of lectures delivered and practical classes handled (program wise)by temporary faculty: -------
13.   Student-Teacher Ratio (program wise)   :

Year	term	No. of Teachers	No. of Students	Student -Teacher Ratio
2010-11	I	17	203	11.94
	II	17	203	11.94
2011-12	I	17	206	12.12
	II	17	206	12.12
2012-13	I	23	296	12.86
	II	23	296	12.86
2013-14	I	25	348	13.92
	II	26	348	13.38

14.   Number of academic support staff (technical) and administrative staff; sanctioned and filled :

Type of Staff	Sanctioned	Filled
Technical and Administrative	03 01	03 +01 +02

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG. :**

Degree	No of Faculty
Phd	02
Phd(Pursuing)	08
PG	12
PG(Pursuing)	01

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Nil**

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. And total grants received : Nil**

18. **Research Centre/facility recognized by the University : Nil**

19. **Publications:**

NUMBER OF RESEARCH PUBLICATIONS BY FACULTY MEMBERS
(FROM 2010-11 TO 2013-14)

Sr. No.	Name of Faculty Member	No. of Research Publications	
		National	International
1	Dr. M. M. Mujumdar	-Nil-	09
2	Mrs. V. A. Swami	-Nil-	12
3	Mr. Akshay R. Thorvat	-Nil-	09
4	Mr. Amol B. Sawant	-Nil-	07
5	Mr. S. P. Narvekar	-Nil-	03
6	Mr. S. G. Sawant	-Nil-	04
7	Mr. S. S. Mane	-Nil-	01
8	Mrs. Vidula G. Waskar	-Nil-	02
9	Mrs. Smita S. Borchate	-Nil-	01
10	Mr. K. G. Hiraskar	-Nil-	01

YEAR-WISE NUMBER OF RESEARCH PUBLICATIONS BY FACULTY
MEMBERS (FROM 2010-11 TO 2013-14)

Sr. No	Name of Faculty Member	No. of Research Publications				Total No. of Publications
		2010-11	2011-12	2012-13	2013-14	
1	Dr. M. M. Mujumdar	02	01	02	04	09
2	Mrs. V. A. Swami	01	07	04	-Nil-	12
3	Mr. Akshay R. Thorvat	01	02	02	04	09
4	Mr. Amol B. Sawant	-Nil-	02	05	-Nil-	07
5	Mr. S. P. Narvekar	-Nil-	-Nil-	01	02	03
6	Mr. S. G. Sawant	-Nil-	-Nil-	04	-Nil-	04
7	Mr. S. S. Mane	01	-Nil-	-Nil-	-Nil-	01
8	Mrs. Vidula G. Waskar	-Nil-	01	01	-Nil-	02
9	Mrs. Smita S. Borchate	-Nil-	01	-Nil-	-Nil-	01
10	Mr. K. G. Hiraskar	-Nil-	-Nil-	01	-Nil-	01

NUMBER OF CONFERENCE PAPERS BY FACULTY MEMBERS
(FROM 2010-11 TO 2013-14)

Sr. No	Name of Faculty Member	No. of Papers Presented		Total No. of Papers Presented
		National	International	National/ International
1	Mr. S. P. Narvekar	05	02	07
2	Mr. Akshay R. Thorvat	11	04	15
3	Dr. M. M. Mujumdar	04	03	07
4	Mr. S. S. Mane	01	01	02
5	Mr. S. G. Sawant	01	-Nil-	01
6	Mr. Amol B. Sawant	01	-Nil-	01
7	Mr. Guruprasad Chavan	06	-Nil-	06
8	Mr. Rohan Nalavade	01	-Nil-	01
9	Mr. Swapnil B. Mohite	03	-Nil-	03
10	Mr. Jaydeep B. Chougule	01	-Nil-	01
11	Mr. S. S. Varur	01	-Nil-	01

YEAR-WISE NUMBER OF CONFERENCE PAPERS BY FACULTY
MEMBERS (FROM 2010-11 TO 2013-14)

Sr. No	Name of Faculty Member	No. of Research Publications				Total No. of Papers Presented
		2010-11	2011-12	2012-13	2013-14	
1	Mr. S. P. Narvekar	-Nil-	01	02	04	07
2	Mr. Akshay R. Thorvat	-Nil-	-Nil-	05	10	15
3	Dr. M. M. Mujumdar	-Nil-	-Nil-	02	05	07
4	Mr. S. S. Mane	-Nil-	-Nil-	01	01	02
5	Mr. S. G. Sawant	-Nil-	-Nil-	01	-Nil-	01
6	Mr. Amol B. Sawant	-Nil-	-Nil-	01	-Nil-	01
7	Mr. G. A.Chavan	-Nil-	-Nil-	01	05	06
8	Mr. Rohan Nalavade	-Nil-	-Nil-	-Nil-	01	01
9	Mr. Swapnil B. Mohite	-Nil-	-Nil-	-Nil-	03	03
10	Mr. J.B. Chougule	-Nil-	-Nil-	-Nil-	01`	01
11	Mr. S. S. Varur	-Nil-	-Nil-	-Nil-	01	01

20. Areas of consultancy and income generated:

Sr. No.	Area of Consultancy	2010-11 (Rs.)	2011-12 (Rs.)	2012-13 (Rs.)	2013-14 (Rs.)
1	Material Testing	240625.00	162755.00	844600.00	624325.00
2	Concrete Mix Design	69500.00	69000.00	49000.00	55000.00
3	Geotechnical Investigation	18000.00	25500.00	433300.00	-
4	Non-destructive Testing	12500.00	47000.00	20000.00	12320.00
5	Surveying with Total Station	84000.00	31500.00	10000.00	18000.00
6	Others	-	2250.00	95250.00	135300.00

21. Faculty as members in :
a) National committees b) International Committees c) Editorial Boards….
Nil
22. Student projects :

Year	No. of students on roll	No. of students doing In-house projects.	%
2010-2011	67	67	100
2011-2012	59	59	100
2012-2013	74	74	100
2013-2014	63	63	100

a) **Percentage of students who have done in-house projects including inter departmental/programme : In house projects:**
   Nil

23. **Awards/ Recognitions received by faculty and students :**

Sr. No.	NAME OF STUDENT	STUDENT ACHIEVEMENTS	DATE	PRIZE / PARTICI-PATION
1	Neeraj Yedekar Sourabh Shelar	*"Automation and Robotics in Construction Industry"*, Pioneer 2010 – A National Level Technical Paper Presentation Held at KIT's College of Engineering, Kolhapur	2nd & 3rd October, 2010	---
2	Nikhilesh Saundattikar Sandesh Sankpal	*"Climate Change Impacts on Water Resources and Measures"*, Pioneer 2010 – A National Level Technical Paper Presentation Held at KIT's College of Engineering, Kolhapur	2nd & 3rd October, 2010	---
3	Chinmay Kagalkar	*"Climate Change Impacts on Water Resources and Measures"*, Pioneer 2010 – A National Level Technical Paper Presentation Held at KIT's College of Engineering, Kolhapur	2nd & 3rd October, 2010	---
4	Aarti Nashte Karuna Jamdade	*"Structural Behaviour of Geopolymer Concrete"*, 'VISION-2011', A National Level Paper Presentation Competition at Walchand College of Engineering, Sangli*	February, 2011	2nd Prize

Sr. No.	NAME OF STUDENT	STUDENT ACHIEVEMENTS	DATE	PRIZE / PARTICI-PATION
5	Prachi Tiwale Roma Gholkar	*"Methods to Improve Ground Water Potential", 'NIRMITI', A National Level Paper Presentation Competition at PVPIT, Budhgaon*	March, 2011	2nd Prize
6	Sphurti Sawant Kavijeet Patil	*"Robotics in Construction", 'VISION, 2012', A National Level Paper Presentation Competition at Walchand College of Engineering, Sangli*	August, 2012	1st Prize
7	Sphurti Sawant Kavijeet Patil	*"Centrifuge Modeling Applications in Geotechnical Structures", 'AAKAR, 2012', A State Level Paper Presentation Competition at TKIET College of Engineering, Warana Nagar*	September, 2012	2nd Prize
8	Sphurti Sawant Kavijeet Patil	*"Construction & Demolition Waste Management", A National Conference on Emerging Trends in Engineering at Bharati Vidyapeeth's College of Engineering, Kolhapur*	January, 2013	1st Prize
9	Aarti Nashte KAruna Jamdade	*"Structural Behaviour of Red Mud Conceret", 'Excelsior', A National Level Paper Presentation Competition at Sinhgad College of Engineering, Pune*	February, 2013	2nd Prize
10	Piyusha Bhagwat Deepali Mane	*National Conference on, 'Emerging Trends in Engineering and Technology,Organized by, Bharati Vidyapeeth's College of Engineering, Kolhapur.*	3rd October, 2013	1st Prize Under UG Category
11	Pradnya Desai Wrundawani Chahande	*National Conference on, 'Emerging Trends in Engineering and Technology,Organized by, Bharati Vidyapeeth's College of Engineering, Kolhapur.*	3rd October, 2013	2nd Prize Under UG Category
12	Ronik Hiraskar Kartikeya Desai	*Pioneer, 2014- A National Level Technical Paper Presentation at, KITCoEK*	22nd January, 2014	1st Prize

Sr. No.	NAME OF STUDENT	STUDENT ACHIEVEMENTS	DATE	PRIZE / PARTICI-PATION
13	Snehal Naik Divya Bidkar	*The Dimension, National Level Technical Poster Presentation at, KITCoEK*	21st January, 2014	1st Prize
14	Neha Sutar Neha Kulkarni	*The Dimension, Technical Poster Presentation at, KITCoEK*	21st January, 2014	2nd Prize
15	Sanket zure Abhijeet Khade	*National Conference on Low Cost Wastewater Treatment Techniques held at Shivaji University, Kolhapur*	January, 2014	
16	Kshitij Doshi Parag Kulkarni Riya Athanikar Anil Kure Pranav Jadhav Sharvari Mane Sushant Desai Shivprasad Koparde Dipali Pawar Akshay Mahajan Harshal Chavan Kunal Mane Nikita Mane Devyani Jirage Sonali Jamdade	*All India Conference on 'Waste Management and Pollution Control, 2014' (WMPC-2014) organized by Institution of Engineers in Association with Department of Civil Engineering, KLE Dr. M. S. Sheshgiri College of Engineering and Technology, Udyambag, Belgaum, Karnataka.*	7th to 8th March, 2014	---
17	Siddharth Gaikwad Ronik Hiraskar	*Nirmiti-2014, National Level Technical Paper Presentation held at Sangli*	February, 2014	1st Prize
18	Pradnya Desai Wrundawani Chahande	*Kaushalya-2014, A National Level Poster Presentation Competition held at Miraj*	February, 2014	1st Prize
19	Sanket Zure	*Eureka 2013, A National Level Paper Presentation held at TKIET, Warana Nagar*	February, 2014	2nd Prize
20	Sanket Zure	*National Level Paper Presentation Competition held at SBGI, Miraj*	February, 2014	---
21	Sanket Zure	*Modra-2013, National Level Technical Competition held at Dr. JJMCOE, Jaysingpur*	March, 2014	---

24. **List of eminent academicians and scientists/ visitors to the department :   Nil**

25. **Seminars/ Conferences/Workshops organized & the source of funding**

    a)   National and International :   Nil

26.   **Student profile program /course wise**   **:**

Sr. No	Program	Year	Applications received	Selected	Enrolled		Pass percentage
					M	**F**	
1	CIVIL	2010-11	60	61	49	12	There are in final year
2	CIVIL	2011-12	120	119	102	17	There are in third year
3	CIVIL	2012-13	120	119	95	24	There are in second year
4	CIVIL	2013-14	120	119			There are in first year

27.   **Diversity of Students**   **:**

Sr. No	Program	Year	% of student from same state	% of student from other state	% of student from Abroad state
1	Civil	2010-11	100	0	0
2	Civil	2011-12	100	0	0
3	Civil	2012-13	100	0	0
4	Civil	2013-14	99	1	0

28.   **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?**

Sr No	Year	No of Students (GRE+GATE)
1	2010-11	6
2	2011-12	5
3	2012-13	8
4	2013-14	9

29.   **Student progression :**

Student Progression	2013-14	%	2012-13	%	2011-12	%	2010-11	%
UG to PG	10	**15.63**	04	**5.4**	11	**18.64**	15	**22.38**
PG to Ph.D.	---	**---**	---	**---**	---	**---**	01	**1.5**
Employed Campus Selection	02	**3.13**	05	**6.76**	11	**18.64**	44	**65.67**
Other than Campus recruitment	52	**81.25**	65	**87.84**	37	**62.71**	08	**11.94**

30. Details of Infrastructural facilities :

a) Library Books Available :
1) Titles - 1699
2) No. of Volumes - 5007
3) National Journals - 12
4) e-Journals - 345

b) Internet facilities for Staff & Students :
1) 30 Mbps leased line internet and Wi-Fi Campus.
2) Departmental separate computer labs.
3) Each faculty with system and internet facility.

c) Class rooms with ICT facility : 02
d) Laboratories : 04+02

31. Number of students receiving financial assistance from college, University, government or other agencies :

Year	Type of assistance	No. of students
2010-11	government	121
2011-12	government	186
2012-13	government	261
2013-14	government	301

a) Scholarship for the year 2013-14

Type of scholarship	State/Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt	10	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	7	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	183	SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
AICTE New Delhi	Central Govt.	6	8,000/- per month

J&K Scholarship	Central Govt.		15000/-
EBC	State Govt	79	50% of Tuition Fee
STC PTC	State Govt	15	4000/-
Handicap Scholarship	State Govt	1	As per fee Receipt

b) Scholarship for the year 2012-13   :

Type of scholarship	State / Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt	8	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	6	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	165	SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
AICTE New Delhi	Central Govt.		8,000/- per month
J&K Scholarship	Central Govt.	1	15000/-
EBC	State Govt	59	50% of Tuition Fee
STC PTC	State Govt	20	4000/-
Handicap Scholarship	State Govt	2	As per fee Receipt

c) Scholarship for the year 2011-12   :

Type of scholarship	State / Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt	3	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	2	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	115	SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
AICTE New Delhi	Central Govt.		8,000/- per month
J&K Scholarship	Central Govt.		15000/-

Type of scholarship	State / Central	No. of Students	Amount of scholarship
EBC	State Govt	53	50% of Tuition Fee
STC PTC	State Govt	12	4000/-
Handicap Scholarship	State Govt	1	As per fee Receipt

d) Scholarship for the year 2010-11   :

Type of scholarship	State / Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt		FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	3	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	73	SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
AICTE New Delhi	Central Govt.		8,000/- per month
J&K Scholarship	Central Govt.		15000/-
EBC	State Govt	35	50% of Tuition Fee
STC PTC	State Govt	9	4000/-
Handicap Scholarship	State Govt	1	As per fee Receipt

32.   Details on student enrichment programmes (special lectures/ workshops / Seminar) with external experts   :

Sr. No.	Name of Expert	Subject	Date
1	Pradeep Kulkarni	Five Days Workshop on STAAD. Pro Training Program	24th to 28th August, 2011
2	Pradeep Kulkarni	Five Days Workshop on STAAD. Pro Training Program	21st to 25th September, 2011
3	C. Nishikanth, Mapspace, India,	Two Days GIS Training Program on Introduction to ArcGIS Desktop	19th to 20th October, 2012
4	C. Nishikanth, Mapspace, India	5 Days Training Program on Quantum GIS	31st Jan to 4th February, 2013
5	Prof. S. S. Varur,	Two Days Workshop on, Hands on Training on Total Station under Lead College Activity (Kolhapur District)	6th to 7th June, 2013

Sr. No.	Name of Expert	Subject	Date
6	C. Nishikanth Mapspace, India,	One week Training Programme on Quantum GIS	16th to 20th Feb. 2014
7	Pradeep Kulkarni	One Week Software Training Program, STAAD. Pro under Lead College	7th to 11th October, 2010
8	Pradeep Kulkarni	Three Days Workshop on STAAD. Pro Training Program	18th to 20th January, 2011
9	Hitesh B. Lahoti, Softech, Pune	Three Days training program using the Software ETABS	5th to 7th April, 2011
10	Mr. Krishnarao Mali	One Day Workshop on Entrepreneurship Development by Mr. Krishnarao Mali	25th August, 2011
11	Prof. Rajendra Heddur Prof. S.S. Varur Prof. A.R. Thorvat Prof. J. B. Chougule Prof. A. D. Patil Prof. Vidula Waskar	A Guest Lecture on Career Opportunities (for T.E. Civil Students)	6th and 7th August, 2013
12	Mr. S. D. Surve, Surve Infotech, Kolhapur	A Guest Lecture on Engineering Drawing Using CAD	29th August, 2013
13	Ram Lele,, Nehru Planetarium,	One Day & Night Workshop on Field Astronomy	31st Jan., 2014
14	Mr. Pradeep Kulkarni	Five Days Training Programme on STAAD.Pro	11th to 15th Feb. 2014

33.   **Teaching methods adopted to improve student learning**   **:**
  1)   Effective Black Board teaching
  2)   Expert Lectures / Seminars on important topic
  3)   Tutorial session on subject
  4)   Active and collaborative teaching
  5)   Use of LCD
  6)   Power point/Educational Animations presentation
  7)   NPTEL e-learning Material for teaching
  8)   Audio-video lectures

34.   **Participation in Institutional Social Responsibility (ISR) and Extension activities :**
  1)   Blood Donation Camp
  2)   NSS camp

35.   **SWOT analysis of the department and Future plans**

  a) **Strengths:**
   ▪ Core Stream Branch
   ▪ Dedicated, young and dynamic faculty with good average experience.
   ▪ State of the art laboratories.

- Consistent & good results of final year.

b) Weaknesses:
- Deficiency of well quipped class rooms.
- Deficiency of online journals in departmental library.
- Moderate exposure to Research & Development activity
- Poor interaction with the construction industry

c) Opportunities:
- Starting new PG courses
- Setting up of centres of excellence in interdisciplinary areas
- NABL (National accreditation Board for testing and calibration laboratories) accreditation for some laboratories to enhance testing.
- starting need based certification courses

d) Challenges
- Fierce competence for acquiring quality human resources due to opening of new colleges and NIT's
- Late updation of syllabus

e) Future Plan:
- To enhance the academic abilities of staff and student
- Organize workshop/seminar and conferences
- MOUs with industries.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

1. Name of the Department : **Computer Science & Engineering**

2. Year of Establishment :**1999**

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc:

   UG (CSE)   Year of Establishment 1999

4. Names of Interdisciplinary courses and the departments/units involved:

Sr. No.	Name of the Course	Department Involved
1	Digital Systems & Microprocessors	ELN
2	Advanced Microprocessors	ELN
3	Environmental studies	ENV
4	Applied mathematics	Mathematics

5. Annual/ semester/choice based credit system (programme wise) : **Semester**

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

Sr. No.	Courses offered by other dept	Name of the Department Offering course
1	Fundamentals of Electronics and Computers	First year

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

Sr. No.	Industry Name	Course
1	Infosys Campus-connect	Business Intelligence

8. Details of courses / programs discontinued (if any) with reasons : **NIL**

9. Number of Teaching posts :

Teaching posts	Sanctioned	Filled
Professors	1	01(Ad-Hoc)
Associate Professors	02	01(Approved)
Asst. Professors	12	07 (Approved) 05(Ad-Hoc)

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Sr. No	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Dr. Preeti S. Patil	PhD	Professor	Business Intelligence	11
2	Mr. Mahesh S. Salunkhe	B.E.CSE M.E(CSE)	Associate Prof.	Distributed Systems	13
3	Mr. Grantej V. Otari .	PhD (Pursuing) M.Tech(CST)	Asst. Prof.	Grid Computing	10
4	Mrs. Deepali K. Jadhav	B.E.C.S.E M.Tech(CST)	Asst.Prof.	Database Engineering	10
5	Mr. Meghshyam G. Prasad	PhD (Pursuing) B.E.CSE	Asst. Prof.	Web technology	10
6	Mrs. Ranjeeta B. Pandhare	B.E.CSE M.Tech(CST)	Asst. Prof.	Information Security	10
7	Mrs. Archana S. Sawant	B.E.CSE M.E(CSE)	Asst. Prof.	Software Testing and Engineering	10
8	Mr. Sameer B. Patil	B.E.CSE ME (CSE)	Asst. Prof.	Cloud Computing ,	5
9	Mr. Navin Mahajan	B.E.CSE ME (CSE)	Asst. Prof.	Computer Networks	3
10	Mrs. Shivani. S. Kale	B.E.CSE ME (CSE)	Asst. Prof.	Cloud computing	9
11	Mrs. Yogita S. Narule	B.E.CSE ME (Pursuing)	Asst. Prof.	Mobile Computing	10
12	Mr. Deepak D. Mahajan	B.E.CSE ME (Pursuing)	Asst. Prof.	Operating System	4
13	Mrs. Vaishali Powar	B.E.CSE ME(Pursuing)	Asst. Prof	Database Engg.	5

Sr. No	Name	Qualification	Designation	Specialization	No. of Years of Experience
13	Mrs. Archana V. Gundavade	B.E.CSE ME (Pursuing)	Asst. Prof.	Wireless Sensor Networks	5
14	Ms. Aradhana S. Ghorpade	BE (CSE)	Asst. Prof.	Programming languages	2
15	Ms. Manali S. Patil	B.E.IT ME (IT)	Asst. Prof.	Networking	2
15	Ms. Seema V. Wazarkar	BE (CSE) MTech (Pursuing)	Asst. Prof.	Programming languages	1

11. List of senior visiting faculty:

Sr. No.	Senior Visiting Faculty	Designation
1	Dr. P. J. Kulkarni	Deputy Director, WCE Sangli
2	Dr. B. F. Momin	Associate Professor & Head, Department of Computer Science & Engg., WCE Sangli

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	term	No. of Temporary Faculties	Lectures Delivered		Practical classes handled	
			No.	%	No.	%
2013-14	I	07	27	47	70	56
	II	06	29	49	65	41

13. Student -Teacher Ratio (programme wise) : 15:1

No. of Students	No. of Faculty
229	15

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr.No.	Type of Staff	Sanction	Filled
01	Technical Staff & Admin	02	02

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.

Degree	No of Faculty
PhD	01
PhD Pursuing	02
PG	06
PG pursuing	04
BECSE	01
DEE/BBA	02

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**

17. Departmental projects funded by DST-FIST; UGC, AICTE, DBT, ICSSR, etc. and total grants received: NIL

18. Research facility recognized by the University Publications: NIL

19. Publications:

Publications per faculty:

Sr. No.	Name of the Staff	Number of Publications	International Journal/ Conferences	National Journal/ Conferences
1	Dr. Preeti S. Patil	63	20	43
2	Mr. Mahesh S. Salunkhe	1	1	-
3	Mr. Grantej V. Otari	04	03	01
4	Mrs. Deepali K. Jadhav	4	2	2
5	Mrs. Ranjeeta B. Pandhare	2	2	-
6	Mrs. Archana S. Sawant	01	01	-
7	Mr. Sameer B. Patil	03	03	-
8	Mr. Navin S. Mahajan	1	-	1
9	Mrs. Shivani. S. Kale	8	3	5
10	Mrs. Yogita S. Narule	2	-	2
11	Mr. Deepak D. Mahajan	02	1	1
12	Mrs. Archana V. Gundavade	2	2	0
13	Mrs. Manali Patil	2	2	-

20. Areas of consultancy and income generated: Yes

S.N.	Area of Consultancy	Income Generated in Rs
1	Inventory management software	10,000/-
2	IBPS Bank Exams since 2010	20000/-
3	MSC and MCA entrance exams conducted for Shivaji University	10000/-
4	M.Phil/Ph.D online entrance examinations for Shivaji University examinations	10000/-
5	Maharashtra Bank online exam	20000/-
6	IIBF Bank Exams	20000/-

21. Faculty as members in

   a) National committees:

   Indian Society of Technical Education – 05

   Computer Society India – 01

   b) International Committees: NIL

   c) Editorial Boards**:**

   Dr. P. S. Patil is the member of review panel for

   1. International conference on "Recent Advances & Challenges in Engineering & Management" RACEM for Vidyalankar Institute of Technology - 2014, Mumbai.

   2. Editorial Board Member / Reviewer for International Journal of Innovative Research in Computer Science & Technology. (IJIRCST).

   3. Member of Review panel for National Conference on "Recent Trends in Information Technology" at BVCOE, Kolhapur.

22. **Student Projects**

   a) Percentage of students who have done in-house projects including inter-Departmental/Programme:

Year	No. of students on roll	No. of students doing In house projects.	%
2010-2011	76	76	100%
2011-2012	85	81	95%
2012-2013	73	65	89%
2013-2014	69	61	88

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:

Year	No. of students on roll	No. of students doing outside projects.	%
2010-2011	76	0	0
2011-2012	85	0	5%
2012-2013	73	0	11%
2013-2014	70	0	12 %

23. Awards/ Recognitions received by faculty and students:

Faculty Achievements

Sr.No.	Name of Faculty	Event	Date
1	Mrs. Shivani Kale	Secured First Prize in **International Conference** on "Add-On utility to make Googledocs more secure" at ICETE J.J.Magdum college of engg. Jaysingpur. 22-23 Feb 2013(ISBN:2278-8727,PP:10-14) At JJMCOE, Jaysingpur	2013-14
2	Dr. Preeti S. Patil	Member of review panel for 1. International conference on "Recent Advances & Challenges in Engineering & Management" RACEM for Vidyalankar Institute of Technology - 2014, Mumbai. 2. Editorial Board Member / Reviewer for International Journal of Innovative Research in Computer Science & Technology. (IJIRCST). 3. Member of Review panel for National Conference on "Recent Trends in Information Technology" at BVCOE, Kolhapur.	2014 June 2013 October 2013
3	Mr. S. B. Patil	1. Worked as a resource person at VIT, Mumbai. in workshop on "Cloud Computing" by ISTE.	Dec 2013

Student Achievements

Sr. No.	Year	Prizes		
		National	**State**	**University**
1	2010-11	2	1	4
2	2011-12	1	2	3
3	2012-13	1	1	3
4	2013-14	8	6	9

24. List of eminent academicians and scientists/ visitors to the department

Sr. No.	Eminent academicians/experts	Designation
1	Dr. B. F. Momin	Associate Professor & Head, Department of Computer Science & Engg., WCE Sangli
2	Prof. R. R. Rathod	Asst. Professor, Information Technology Department, WCE Sangli
3	Mr. Amitkumar Bamane	Software Engineer, IBM, Pune
4	Mr. Shailesh Naiknaware	Software Analyst , Pune
5	Mr. Ajay Narke	Manager, Narke Associates, Kolhapur
6	Mr. Deepak Ingawale	Software Engineer, TCS, Pune
7	Mr. Amit Daharval	IBM representative, Pune
8	Mrs. Ashwini Danigond	CEO and Executive manager, Manorama Infosolutions, Kolhapur
9	Prof. Kumar Shrinivasan	Director PICT School of Technology and Management, Pune.
10	Mr. R. Balchandran	Corporate trainer for soft skills
11	Mr. Archit Tapar	Faculty-Marketing, PICT School of Technology and Management, Pune.
12	Anand Kolharkar	Founder, Opine Group, Pune
13	Iravati Abhyankar	Sr. BI Consultant, Opine group, Pune
14	Prof. D. A. Desai,	Professor, Marathi Dept., Vivekanand College,kop
15	Mr. Mandar Bhanage	Director, M.B. Entertainments, Kolhapur
16	Mr. Chaitanya Nadiger	Slamigo India Pvt. Ltd

25. Seminars/ Conferences/Workshops organized & the source of funding

   a) National b) International

Sr. No.	Date/Year	Seminars/ Conferences/Workshops organized & the source of funding	Details
1	9 to 13 June 2010	Five Day STTP on 'Web programming'	Five Day STTP on 'Web programming'`
2	24, 25 July 2010	Workshop on Network Engineering	A two day Workshop was conducted jointly by CSE & IT department on Network Engineering
3	18th-22nd June, 2012	Current Trends in Database Systems",	The five-day ISTE approved STTP arranged
4	07/08/11	LATEX : Typesetting tool	One day faculty development Program was arranged by the department
5	24/11/12	Android application development	One day workshop on Android application development
6	3rd – 6th July, 2012	IBM Rational SEED- RSA Program	Four days workshop by IBM, Pune

26. Student profile programme/course wise :

Year	Name of the Course/ programme	Applications received	Selected	Enrolled *M	*F	Pass percentage
2010-11	Computer Science & Engineering	61	61	33	28	98.7%
2011-12		61	61	33	28	97.14%
2012-13		61	61	29	32	90.41%
2013-14		60	59	24	35	98.3%

   *M=Male *F=Female

27. Diversity of Students

Year	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2010-11	Computer Science & Engineering	98%	2%	**NA**
2011-12		100%	NIL	**NA**
2012-13		98%	2%	**NA**
2013-14		98%	2%	**NA**

28. How many students have cleared national and state competitive examinations such as NET, **SLET, GATE, Civil services, Defense services, etc. ?**

Year	No. of Students	Competitive examinations
2010-11		GATE
	2	GRE/TOEFL
		Central/State Services
2011-12		GATE
	3	GRE/TOEFL
		Central/State Services
2012-13		GATE
	1	GRE/TOEFL
		Central/State Services
2013-14	4	GATE
	2	GRE/TOEFL
	1	Central/State Services

29. Student progression

Year	Student Progression	%
2010-11	UG to PG	10.5%
	Employed - Campus Selection - Other than Campus Selection	56.5% 13%
2012-13	UG to PG	13
	Employed - Campus Selection - Other than Campus Selection	33 15
2011-12	UG to PG	9%
	Employed - Campus Selection - Other than Campus Selection	44% 10.5%
2013-14	UG to PG	12%
	Employed -Campus Selection - Other than Campus Selection	46.3% NA%

286

30. Details of Infrastructural facilities

   a) Library:

Sr. No.	Number of Title	Number of Volumes	Number of Journals	Number of e-journals
1	520	-	-	-

   b) Internet facilities for Staff & Students: Wi-Fi facility, **leased line 30 Mbps**

   VPN – 2*20 MBPS – 40 Mbps

   6 Broadband VPN – 2 Mbps

   c) Class rooms with ICT facility:

   - Department has 2 class rooms for conducting lectures for 2nd, 3rd and 4th year Computer Science and Engineering students along with LCD Projector, Wi-Fi facility. Faculties are provided Laptops for interactive teaching.

   - Department has 1 tutorial rooms for conducting tutorials for II/IV, III/IV and IV/IV Computer Science and Engineering students.

   - Department share college seminar hall to conduct workshops, seminars and guest lectures.

   d) Laboratories: 08 Labs

Sr. No.	Name of Lab
1	Data Structure & programming
2	Networking & Security
3	Operating System & System Programming
4	Database Engineering
5	Computer Architecture & Graphics
6	Software Management & Project
7	Project Lab
8	Research Lab

31. Number of students receiving financial assistance from college, university, government or other agencies:

Year	Type of assistance	No. of students
2010-11	Scholarship & Freeship	**91**
	EBC	**42**
	STC	**7**
	PTC	**5**
	Handicap	**1**
	Minority	**1**
	J & K	**0**
	GATE	**0**
	Central Sector	**0**
2011-12	Scholarship & Freeship	**89**
	EBC	**50**
	STC	**6**
	PTC	**7**
	Handicap	**1**
	Minority	**1**
	J & K	**0**
	GATE	**0**
	Central Sector	**3**
2012-13	Scholarship & Freeship	**94**
	EBC	**53**
	STC	**4**
	PTC	**5**
	Handicap	**2**
	Minority	**5**
	J & K	**0**
	GATE	**0**
	Central Sector	**2**
2013-14	Scholarship & Freeship	**99**
	EBC	**53**
	STC	**3**
	PTC	**3**
	Handicap	**1**
	Minority	**5**

J & K	**0**
GATE	**0**
Central Sector	**2**

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts:

- Organized every year Pioneer- National level paper presentation
- Organized every year Manthan- Elocution Competition/ Street play
- Organized every year Wizard – Programming contest in C & Java
- Organized every year Sanrachana – Project Competition/Website design contest
- Campus Recruitment Training
- Guest lectures with Industry and academic experts.
- Seminars & workshops on recent trends in the Computer Science & Engineering
- Workshops and events are organized by the CSI student branch of the institute.

Sr. No.	Subject	Name of Expert	Date
1.	Pioneer 10-11, Institute organizes National level paper presentation under which papers are presented by the students of Computer & IT discipline		2nd – 3rd Oct 2010
2.	Manthan 10-11 – Elocution competition (University level)	-	2010-11
3.	Wizard 10-11 – C & Java programming contest (University level)	--	2010-11
4.	One day Workshop done on Effective Project Execution	Mr. Nilesh Miskin Senior Software Engineer. Persistent System, Pune. Mr. Rajan Patil. Module Lead, Persistent System, Pune.	31st July 2011

Sr. No.	Subject	Name of Expert	Date
5.	Pioneer 11-12, Institute organizes National level paper presentation under which papers are presented by the students of Computer & IT discipline	Prof. A. B. Rajmane, Ast. Prof, AMGOI, Wathar	2nd – 3rd Oct 2011
6.	Wizard 11-12 C & Java programming contest (University level)	Mr. M.G.Prasad, Asst. Prof, CSE, KITCoEK	2011-12
7.	Manthan 11-12- Elocution competition ((University level)	Ms. Kavita Tiwade, Professor, Vivekand College, Kolhapur, Mr. Murlidhar Parulekar, Pune	2011-12
8.	Sanrachana 11 Project Exhibition	Mr. T. B. Patil, Asst. Prof., IT, KITCoEK	2011-12
9.	Manthan 12-13 - Elocution competition (University level)	Prof. D. A. Desai, Professor, Marathi Dept., Vivekanand College,kop	2012-13
10.	Pioneer 13-14 Institute organizes National level paper presentation under which papers are presented by the students of Computer & IT discipline	Prof. A. B.Chougule Professor & HOD, CSE Dept., BVP's COE,Kolhapur	24-25 Feb 2013
11.	Inauguration of CSI Student branch of the institute	Mrs. Ashwini Danigond, CEO and Executive manager, Manorama Infosolutions Pvt. Ltd, Kolhapur	16th March, 2013
12.	Manthan 13-14 – Street play (University level)	Mr. Mandar Bhanage Director, M.B.Entertainments, kolhapur	2013-14
13.	Wizard 13-14 C & Java programming contest (University level)	Mr. M.S.Salunkhe, Asso. Prof, CSE, KITCoEK	2013-14
14.	Sanrachana 13 Website Designing contest	Mr. Chaitanya Nadiger Slamigo India Pvt. Ltd	2013-14

Sr. No.	Subject	Name of Expert	Date
15.	INGENIOUS , University level technical event organized by CSI student Chapter with two different activities namely Idea Hampster – best from e-Waste and Innovate _ Project Exhibition	Mr. Yogesh Jadhav, Director, Softwin Solutions, Sangli Mr. Deepak Mahajan, Asst. Prof., CSE, KITCoEk	16th March, 2014

33. Teaching methods adopted to improve student learning:

    1. Black Board teaching method
    2. LCD / PPT teaching method
    3. Multimedia learning
    4. Problem Solving
    5. Interactive Learning
    6. Student centered learning
    7. Project based learning
    8. NPTEL Video
    9. Webinars – Infosys Campus-connect
    10. Group Discussion
    11. Learning through Industrial Visit
    12. Seminar based learning
    13. Tutorial sessions

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
    - Blood donation camp – NSS activity
    - Social Charity for Orphanages
    - Tree plantation

   Extension Activities
   Computer Society of India Students Chapter

35. SWOC analysis of the department and Future plans

a) **Strengths**

   - Highly committed, dedicated and qualified staff
   - Well defined program assessment (including program objectives, course learning outcomes, and instruction assessments)
   - Student Development Cell to enhance employment skills amongst students
   - Have PLACECOM cell of students for campus placements
   - Have increasing number in campus placements
   - Dedicated 30 Mbps leased lines internet connection
   - 24/7 WIFI Facility
   - Effective Mentoring Scheme – Teacher –Student association

- Adequate lab facilities.

b) **Weakness**

- No PG and PHD program.
- Lack of departmental collaborations with the industries
- need to promote more faculty development programs and training programs for faculty as well as seminars/workshops for students

c) **Opportunities**

- Develop more interdisciplinary research/projects
- Make the department more research oriented
- Opportunity to offer need based programs to working professionals
- Maintaining and utilizing better contact to our alumni

d) **Challenges**

- Faculty retention is a challenge
- Challenges related to Entrepreneurship development & environmental issues

e) **Future Plans**

- Initiate P.G and Ph.D. Programs
- Organize National Conference
- Promote more research project in the department
- Improve employability of graduate students
- To sign more MoU's with the industries
- Promote faculties for Ph.D.

DEPARTMENT OF INFORMATION TECHNOLOGY

1. Name of the department: **Information Technology.**

2. Year of Establishment: 2001

3. Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

Name of the Program	Year of Establishment
UG (Information Technology)	2001

4. Names of Interdisciplinary courses and the departments/units involved: Following Interdisciplinary courses are involved in curriculum of programs:

Following Interdisciplinary courses are involved in curriculum of programs:

SN	Name of Interdisciplinary course	Department
1	Engineering Mathematics – III	Mathematics
2	Environmental Science	Environmental Engg
3	Economics for IT Engineers	MBA

5. Annual/ semester/choice based credit system (program wise): Semester system

6. Participation of the department in the courses offered by other departments:

SN	Name of Interdisciplinary course	Department
1	Programming Laboratory	Environmental Engg
2	Fundamentals of Electronics and Computer science	First year

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil

8. Details of courses/program discontinued (if any) with reasons:

    NIL

9. Number of teaching posts:

Post	Sanctioned	Filled
Professors	01	Nil
Associate Professors	03	02
Asst. Professors	11	04

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. /Ph.D. / M. Phil. Etc.,) : Nil

11. List of senior visiting faculty:

Sr. No	Name of the Senior Adjurn faculty	Name of the institute
1	Dr. P.J.Kulkarni	WCE,Sangli
2	Mr. A.B.Chougule	BV'S College of Engg,Kolhapur

12. Percentage of lectures delivered and practical classes handled (program wise)by temporary faculty: N.A.

13. Student-Teacher Ratio (program wise):

   STR = 15:1

*indicates pursuing

Sr. No.	Name	Designation	Qualification
1	Prof. T. B. Patil	H.O.D.	ME (CSE)
2	Prof. A. S. Patil	Associate Prof.	M-Tech (CSE)
3	Prof. Mrs. M. S. Kalas	Associate Prof.	M-Tech (CSE)
4	Mrs. U. P. Gurav	Asst. Prof.	M-Tech (CSE)
5	Mr. S. S. Palkar	Asst. Prof.	M-Tech (CST)
6	Mr. J. S. Pujari	Asst. Prof.	M-Tech (CSE)
7	Mr. P. S. Menthe	Asst. Prof.	ME (CSE)*
8	Mr. A. S. Jagtap	Asst. Prof.	BE (IT)
9	Mr. R. D. Gade	Asst. Prof.	ME (CSE)*
10	Mrs. V. R. Patil	Asst. Prof.	ME (CSE)*
11	Ms. S. H. Dinde	Asst. Prof.	BE (CSE)
12	Mr. D. M. Kapase	Asst. Prof.	BE (IT)
13	Mr. A. B. Kapase	Asst. Prof.	BE (IT)
14	Mr. A. R. Desai	Asst. Prof.	BE (CSE)

No. of Students	No. of Faculty
18	14

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Type of Staff	Sanctioned	Filled
Technical & Administrative	3	3

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.:

Degree	No of Faculty
Phd	Nil
Phd(Pursuing)	02
PG	04
PG(Pursuing)	07

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. And total grants received: NIL

18. Research Centre /facility recognized by the University: Nil

19. Publications:

DETAILS OF FACULTY PUBLICATIONS

SR. NO	NAME OF THE FACULTY	2010-11 (NO.OF PAPER PRESENTED/PUBLISHED)		2011-12 (NO.OF PAPER PRESENTED/PUBLISHED)		2012-13 (NO.OF PAPER PRESENTED/PUBLISHED)		2013-14 (NO.OF PAPER PRESENTED/PUBLISHED)	
		NATIONAL	INTERNATIONAL	NATIONAL	INTERNATIONAL	NATIONAL	INTERNATIONAL	NATIONAL	INTERNATIONAL
1	MR. T. B. PATIL	0	1	0	0	0	1	0	0
2	PROF. M. S. KALAS	1	2	2	1	2	3	2	3
3	PROF. AJIT S. PATIL	0	0	1	1	0	0	0	0
4	MS. M.M MERCHANT	0	0	1	0	0	0	0	0
5	MR. S.S. PALKAR	0	1	0	0	0	0	0	0
6	MR. P.S. MENTHE	0	0	0	0	1	0	0	0
7	MRS V. R. PATIL.	0	0	0	0	1	0	0	0
8	MR R.D. GADE	0	0	0	0	1	0	0	0

20. Areas of consultancy and income generated:

21. Faculty as members in : Nil

   a) National committees b) International Committees c) Editorial Boards.

   Mrs. Mamata S.Kalas

   - Reviewer and editorial board member for bio-info publications (Impact Factor 6), BIOIT publications and IJCS(Academia publications)
   - Reviewer for CSCITA 2014, 2012 (Sponsored by IEEE)

22. Student projects

   a) Percentage of students who have done in-house projects including inter departmental/programme:

   In house projects: 90% Internship/sponsered: 10%

23. Awards/ Recognitions received by faculty and students:

Name of the Student	Project Name	Competition	Prize
Sagar Patil	"GRADE BOOK" a free web based portal for teachers	"Oracle Think Quest International Project Competition 2011" Organized by Oracle Education foundation, USA	2nd

Students of batch 2013-14 implemented T&P office data base application.

Prof. Mrs. Mamata S.Kalas nominated and selected as member of Board of studies, IT,of shivaji University,Kolhapur. Since 2010.

Reviewer and editorial board member for bio-info publications (Impact Factor 6), bio-it publications and IJCS academia publications

Reviewer for CSCITA 2014, 2012 (Sponsored by IEEE)

Received letter of excellence from IIT Bombay for conducting spoken tutorials.

24. List of eminent academicians and scientists/ visitors to the department:

25. Seminars/ Conferences/Workshops organized & the source of funding :

   a) National

   - Workshops Conducted Under MHRD-IIT Mumbai
   - Software Development Techniques (05 Nov 04 Dec 2011)
   - Introduction to research methodologies (25 Jun04 Jul 2012)

- Aakash for Education (10 Nov 11 Nov 2012)

- Research methods in educational technology (2 Feb-9 Jan 2013)

- Aakash Android Application Programming (23 Feb- 03 Mar 2013)

- Database Management Systems (21 May - 31 May 2013)

- Computer Programming for   Teachers (16 Jun - 21 Jun 2014)

- Computer Networking for Teachers (30 Jun - 05 Jul 2014)

MOU'S

- Zensar Technologies, Pune, Year -2013-14

- Point8020, UK, Year – 2010-11

26. Student profile program /course wise:

Sr. No	Program	Year	Applications received	Selected	Enrolled		Pass percentage
					M	F	
1	IT	2010-11	60	59	33	26	
2		2011-12	60	63	30	33	
3		2012-13	60	53	33	20	
4		2013-14	60	54	30	24	

27. Diversity of Students

Sr. No	Program	Year	% of student from same state	% of student from other state	% of student from Abroad state
1	IT	2009-10	98	2	0
2		2010-11	98	2	0
3		2011-12	98	2	0
4		2012-13	98	2	0
5		2013-14	98	2	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

Sr. No.	Year	No of Students (GRE+GATE)
1	2010-11	6
2	2011-12	6
3	2012-13	2

29. Student progression

Student progression	Against % enrolled
UG to PG	-

PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed • Campus selection • Other than campus recruitment	35%
Entrepreneurship/Self emlyoment	2%

30. Details of Infrastructural facilities

    a) Library Books Available:

    Department Books are available:350

    Internet facilities for Staff & Students:

    1. 30 Mbps leased line internet and Wi-Fi Campus.

    2. Departmental seperate computer labs.

    3. Each faculty with system amd internet facility.

    Class rooms with ICT facility: 02

    Laboratories: 04+02

31. Number of students receiving financial assistance from college, University, government or other agencies:

Year	Type of assistance	No. of students
2010-11	Government	21
2011-12	Government	24
2012-13	Government	24
2013-14	Government	18

    Ms. Kalyani Sutar received scholarship of 38,000/- from 'Jade Global' in 2012-13.

    Ms. Neha Bakare received scholarship of 38,000/- from 'Jade Global' in 2013-14.

32. Details on student enrichment programmes (special lectures/workshops/ Seminar) with external experts:

Sr No	Name of Expert	Subject	Date
1	Mr. Sandip Patil	College ERP Demonstration	07/02/2013
2	Dr. Monica Sanandam	Resume Writing & English Vocabulary'	02/02/2013
3	Ms.Shobha Patil ,	Database Engineering	16/02/2013
4	Prof. A. R. Surve	'Software Engineering'	24th March 2012

5	Mr. G. V. Otari	"Grid Computing	22/02/20146
6	Dr. Monica Sanandam	"Communication Skills"	15/01/2013
7	Prof. A. J. Umbarkar	'Process Structure & Process Control'	3rd April. 2010
8	Prof. Sandeep Walvekar	'Network Engineering'	23rd July 2010
9	Mr. Rahul Patil	'High Performance Computing'	05th Jan.2010

33. Teaching methods adopted to improve student learning:

   1. Effective Black Board teaching

   2. Experts Seminar on important topic

   3. Tutorial session on subject

   4. Active and collaborative teaching

   5. Use of LCD

   6. Power point/Educational Animations presentation

   7. NPTEL e-learning Material for teaching

   8. Audio-video lectures

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

   1. Blood Donation Camp

   2. NSS camp

35. SWOC analysis of the department and Future plans

Strengths:
- Qualified, Young, Dynamic and Dedicated faculty with adequate professional and teaching experience.
- State-of-the-art laboratories.
- Good on-campus placements for the students.
- Consistently good appraisal for the teaching faculty by the students.
- No. of In-house projects successfully completed by faculty for Institute.
- Excellence in final year results.
- Arranging faculty development programs. Staff development through QIP/STTP/Summer or Winter Schools/ Sponsorship for improving qualifications.
- Training Programs for Personality development of students.
- Active participation of the faculty in college level activities.
- Staff members working as a resource person for other institutes.

Weaknesses:
- Deficiency of well equipped classrooms
- Qualification and technical competency of supporting staff is inadequate.
- Deficiency of online journals in departmental library.
- Faculty retention is challenge.
- Deficiency of computing facility.
- Research Patents deficiency.
- Deficiency of PhD'S

Opportunities:
- Internet and medical facility needs improvement.
- R&D activities need to be enhanced and interaction with industry should be increased.
- Faculty members need to publish more research papers and submit projects to funding agencies
- More incentives to be introduced for promoting consultancy and resource generations.
- Performance of students in competitive examination needs improvement.
- More skill up gradation opportunity to be provided to staff.

Challenges:
- Mushrooming of new colleges adversely affect adversely the quality of incoming students.
- Faculty attrition and inability to attract good faculty in cutting edge technology areas.
- High competition from other universities and corporate groups, which will affect the admissions.
- Late updating of syllabus.

Future Plan:
- Promote Faculty for Research & Development work.
- Vocational Industrial Training for Students
- 100 % Placements
- Strengthen alumni interaction
- National Conference in April 2015

DEPARTMENT OF MECHANICAL ENGINEERING

1. **Name of the department**: Mechanical Engineering

2. **Year of Establishment:** 2002

3. **Names of Programmes / Courses offered (UG, PG, etc.)**

Name of program	Year of Establishment
UG (Mechanical Engineering)	2002

4. **Names of Interdisciplinary courses and the departments/units involved:**

Sr.No.	Name of Interdisciplinary course	Department
1	Electrical technology	Electrical Engg
2	Environmental science	Environment Engg
3.	Engineering Mathematics III	Mathematics Engg

5. **Annual/ semester/choice based credit system (Programme wise):**

Semester assessment system

6 **Participation of the department in the courses offered by other departments:**

Sr.No.	Courses offered	Department
1	Basic mechanical Engg.	BS & H
2	Engg. Graphics	BS & H

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: For 120 Intake**

	Filled
Professors	Nil
Associate Professors	02
Asst. Professors	24

10 **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M. Phil. etc.,)**

Sr.No.	Name Of The Faculty	Qualification	Designation	Specialization
1	Mr.S.S.Mane	M.E –Mech Prod	Head & Asso.Prof.	Metallurgy & Manufacturing
2	Mr.S.M.Pise	M.E –Mech Power	Asso.Prof.	Thermal Engg
3	Mr.U.S.Bhapkar	M.E –Mech Heat Power	Asst.Prof.	Heat Power Engg
4	Mr.A.M.Qureshi	M.E-Mech Design	Asst.Prof	Design Engineering
5	Mr.N.V.Deshpande	M.E-Mech	Asst.Prof.	Refrigeration & Air Conditioning
6	Mr.S.S.Shinde	M.E-Mech Prod	Asst.Prof.	Manufacturing & Quality Management
7	Mrs.V.S.Mane	M.E-Mech Prod	Asst.Prof.	Manufacturing & Industrial Management
8	Mr.S.S.Kadam	M.E-Mech Prod	Asst.Prof.	Manufacturing And Automation
9	Mr.P.B.Mutalik	M-Tech Thermal	Asst.Prof.	Thermal Engg
10	Mrs.A.M.Chougule	M.E-Mech Prod	Asst.Prof.	Manufacturing
11	Mr.S.B.Patil	M.E-Mech Prod	Asst.Prof.	Manufacturing
12	Mr.N.S.Desai	M.E- Prod	Asst.Prof.	Manufacturing
13	Mr.V.M.Dandage	M.E-Mech Prod	Asst.Prof.	Manufacturing & Design
14	Mr.S.B.Desai	M.E Mech Heat Power	Asst.Prof.	Thermal Engg
15	Mr.S.S.Shinde	M.E-Heat Power	Asst.Prof.	Thermal Engg
16	Mr.V.D.Kambale	M.Tech- Prod	Asst.Prof.	Manufacturing & Automation
17	Mr. J.S.Bhat	M.E-Cad-Cam-Cae	Asst.Prof.	Manufacturing
18	Mr. R.C. Bhedasgaonkar	M.Tech- Mech Prod	Asst.Prof.	Manufacturing
19	Mr. S.S.Jamdade	M.Tech- Mech Prod	Asst.Prof.	Manufacturing
20	Mr. M.H.Kulkarni	B.E Prod	Asst.Prof.	Manufacturing
21	Mr. P.R.Ingale	B.E Prod	Asst.Prof.	Manufacturing &Foundry
22	Mr. D.A.Pathak	M.E-Mech Prod	Asst.Prof.	Manufacturing
23	Mr. Vinayak V. Gurav	M.Tech (Cad/Cam/Robotics)	Asst.Prof.	Manufacturing & Automation
24	Mr. Aniruddha S. Joshi	M.Tech-Automobile	Asst.Prof.	Automobile Engineering
25	Ms. Shital M. Kalikate	M.Tech - Automobile	Asst.Prof.	Automobile Engineering
26	Mr.Vivek S. Gondkar	M.Tech- Mech Prod	Asst.Prof.	Manufacturing

11   List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

- Percentage of lectures delivered :- Nil

- Percentage of practical handled :- Nil

13. Student -Teacher Ratio (program wise):

15:1

14 Number of academic support staff (technical) and administrative staff; sanctioned and filled:

ACADEMIC SUPPORT STAFF (TECHNICAL)

SANCTIONED: 02

FILLED: 02

ADMINISTRATIVE STAFF

SANCTIONED: NIL

FILLED: NIL

15 Qualifications of teaching faculty with D. Sc/ D.Litt/ Ph.D/ M Phil/PG.

Ph.D. Registered	07
M.E. / M.Tech Completed	18
M.Tech. Appeared	01

16 Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

- NATIONAL:

Sr. No.	Name Of Coordinator	Title Of The Project	Funding Agency	Amount Of Funding	Status Of Proposal
1	S.M.Pise	Redesigning Of B.M.C	Nabard	9.75 Lakh	Completed

- INTERNATIONAL FUNDING AGENCIES: Nil

- TOTAL GRANTS RECEIVED: Nil

17 Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil

18 Research Centre /facility recognized by the University: Nil

19 Publications:

i. **Publication per faculty**

Sr. No	Name of the faculty	2010-11 (No.of Paper presented/published)		2011-12 (No.of Paper presented/published)		2012-13 (No.of Paper presented/published)		2013-14 (No.of Paper presented/published)	
		National	International	National	International	National	International	National	International

1	Prof.s.s.mane	**1**			**1**				
2	Prof.s.m.pise						**1**		**1**
3	Prof. U. S. Bhapkar						**1**		
4	Prof.s.s.shinde								**1**
5	Mr. J.s.bhat	**1**			**1**				
6	Mr. R.c.bhedasgaonkar		**1**	**1**					
7	Mr. S.s.jamdade				**1**				

20

- **Monographs -** Nil
- **Chapter in Books -** Nil
- **Books Edited -** Nil
- **Books with ISBN/ISSN numbers with details of publishers -** Nil
- **Citation Index-** Nil
- **SNIP -** Nil
- **SJR -** Nil
- **Impact factor -** Nil
- **h-index** – Nil
- **Areas of consultancy and income generated:**
  A. Casting Simulation-
- **Faculty as members in
  a) National committees b) International Committees c) Editorial Boards**
  Nil

21   Student projects

- Percentage of students who have done in-house projects including inter departmental/programme: 10%
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies: 90%

22   Awards/ Recognitions received by students:

Year	Activity	National/State/University		
		1st prize	2nd prize	3d prize
2011-12	Paper presentation	2	1	1
	Technical events	8	6	3
2012-13	Paper presentation	1	-	1
	Technical events	34	1	-

2013-14	Paper presentation	-	2	-
	Technical events	23	6	3

23 List of eminent academicians and scientists/ visitors to the department:

The Following Resource Persons Have Visited The Institute And Conducted State Level Conference/Seminar:

1) Mr. Dhananjay Datar – Chairman, Al Adil Group Of Companies, Dubai, Visited Department During National Level Technical Paper Presentation Competition, (Pioneer 2014)

2) Mr.P V Sarode – Dy. Director, Dte, Pune Region, Visited Department During National Level Technical Paper Presentation Competition, (Pioneer 2014)

3) Mr.A V Kulkarni – Owner, Anukool Engineers, Kolhapur, Visited Department During National Level Technical Paper Presentation Competition, (Pioneer 2014)

4) Mr.P.K.Desai –Vice President Iste New Delhi Visited During National Level Technical Paper Presentation Competition, (Pioneer 2014)

24 Seminars/ Conferences/Workshops organized and the source of funding
   a) National

Sr. No.	Date	Venue	Name of the Activity
1.	May2012	K.I.T'S College of Engg.	Two week work shop on CFD
2.	1-2 September 2012	K.I.T'S College of Engg.	A two day workshop on Non-Destructive Testing conducted by Indian Society for Non Destructive Testing (ISNDT) Pune Chapter- Proposed
3.	11-21 December2012	K.I.T'S College of Engg.	Two week work shop on Engg. Tremodyanamics
4.	9-10 February2013	Residency Club	National conference on Manufacturing Excellence in Lean Green and Safe Practices

Sr. No.	Name of Program/ Event	Resource Person/ Organiser	Date
1.	A Two Days Workshop on CAD/CAM/CAE and PLM-Additive Manufacturing	Mr. Sushil Mane(Altair Engg. Bangalore) Mr. Ravi Patil (National Technical Manager) Mr. Nikhil Manchalwar (Sales Manager, Design Technique, Pune)	27th July 2013
2.	One Day Workshop on Teaching Methodology for First Year Engineering-Revised Syallbus	Mr. Sangram Patil, Prof. A.T.Pise	3rd Aug 2013
3.	A Two Days Workshop on Non-Destructive Testing	Mr. B.K. Pangare, Mr. B.B. Mate, Mr. Khatri, Mr. Kulkarni	30th and 31st Aug 2013
4.	Inauguration of Two Student Chapters(SAE,ISHRAE) and Foundation of MECHANAS	Mr. Girish Patil (Project Leader at M/s. Caterpillar Inc.,Montreal, Cannada) Mr. A.V. Kulkarni(President ISHRAE, Kolhapur)	3rd Sept 2013
5.	TECHNOZEAL 2K13	Mr. Sachin Shirgaonkar (M.D, S.B. Reshellers)	6th and 7th Sept 2013
6.	Engineers' Day Function	Mr. Arvind Deshpande (CMD, A.G. Group of Industries, Kolhapur)	15th Sept 2013
7.	Industry Skill Development Program(ISDP) on Advanced I.C.Engine Technologies	Madhu Reddy, Conducted by Experts Hub and Techfest, IIT, Bombay	28th and 29th Sept 2013
8.	TEXPLORE	Mr.Madan Kulkarni Mr.Harshwardhan Jagdale Mr.A. V. Kulkarni	21st and22nd Jan 2014
9.	Workshop on I.C.Engines, dismantling and assembly, SAE Student Chapter	Mr. Hemant Rendalkar Mr. Suresh Shipugade	16th Feb 2014
10.	One day workshop on Hands on Training on HVAC Tools.	Mr. A.V. Kulkarni Mr. Sanjay Malekar	16th Feb 2014
12.	One day workshop on Advancs in solar Energy	Prof. N.N. Shinde, Prof. M.M . Wagh	26th Feb 2014

Sr. No.	Name of Program/ Event	Resource Person/ Organiser	Date
13.	Two days workshop on Advances in Thermal Engg.	Dr. B. S. Gavali Dr. D. V. Ghewade Dr. S. M. Sawant Dr. A N. chapgaon Dr. A. K. Bhat Miss. Mitali Basargi	15th and 16th March 2014

b) International

- Nil

25   Student profile programme/course wise:

Name of the Course/programme	Year	Applications received	Selected	Enrolled *M/*F
Mechanical Engg.	2011-2012	NA	127	108 / 19
Mechanical Engg.	2012-2013	NA	127	104 / 23
Mechanical Engg.	2013-2014	NA	127	108 / 19

*M=Male F=Female

26   Diversity of Students

Name of the Course & year (Mechanical Engg.)	Students From The Same State	Students From Other States	Students From Abroad
2011-12	120	1	-----
2012-13	120	1	------
2013-14	127	1	----

27   How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc?

Sr. No.	Academic Year	Exam Type	Number Of Students
1	2010-11	GATE ,M.S ,MBA	17
2	2011-12	GATE ,M.S ,MBA	11
3	2012-13	GATE ,M.S ,MBA	03

28   Student progression

Student progression	Against % enrolled
UG to PG-	------

Employed	10-11	11-12	12-13	13-14
• Campus selection	28	46	19	14
• Other than campus	11	10	04	-
Entrepreneurship/Self-employment	-----------			

29 Details of Infrastructural facilities

- Library – YES

Sr.No.	Title	Details
1	No. Of Titles	2059
2	No. Of Volumes	5567
3	No. Of Journals(National)	12
4	No. Of International(E Journals)	345

- Internet Facilities For Staff & Students –Yes;

- Wi- Fi Facility is Given

- Class Rooms With ICT Facility- Yes Classrooms-2

- Laboratories –Yes   Labs-11

30 Number of students receiving financial assistance from College, university, government or other agencies

Financial Assistance Under Scheme	Academic Year	No. of Students
SCHOLARSHIP & FREESHIP	2010-11	96
	2011-12	127
	2012-13	166
	2013-14	193
EBC	2010-11	37
	2011-12	43
	2012-13	54
	2013-14	79
STC	2010-11	9
	2011-12	10
	2012-13	15
	2013-14	16
PTC	2010-11	4
	2011-12	8
	2012-13	6
	2013-14	7
HANDICAP	2010-11	3
	2011-12	4
	2012-13	3
	2013-14	2

Financial Assistance Under Scheme	Academic Year	No. of Students
MINORITY	2010-11	4
	2011-12	3
	2012-13	4
	2013-14	5
CENTRAL SECTOR	2010-11	5
	2011-12	8
	2012-13	22
	2013-14	22

31 Details on student enrichment programmes (special lectures / workshops / seminars) with external experts

Sr.No.	Topic	For	Lecturer	Date & Time
1	Solar Photovoltaics	TE(Mech.)	Mr. Satvasheel Pawar, Ph.D Student,Monash University Australia	17-1-2012, 11.30 to 1.00 p.m.
2	FEA Career Opportunities &Industrial Applications	TE & BE	Mr. Prasanna Joshi, Dir, CADCAM Guru Pune	24-1-2012, 11.30 to 1.00 p.m.
3	Softech International E-Learning for GATE	BE	Mr. Sunil Puranik	27-1-2012
4	CFD Fundamentals & Applications	S.E., T.E. and B.E.	Dr.Atul Sharma, IIT'B Mumbai	19-7-2011, 11.30 to 1.30 p.m.
5	Mechatronics	BE	Mr.Bipin Jirage, MD, IFM	16-8-2011

32 Teaching methods adopted to improve student learning

Multimedia Presentation.

Use of ICT

Interactive Teaching

Project/ Model Lab

Hands on Training

33 Participation in Institutional Social Responsibility (ISR) and Extension activities

Public Awareness Camps

NSS camp

34 SWOC analysis of the department and future plans

1. STRENGTHS:

- Qualified and Motivated Faculty.
- Good Input Quality of Students Enrolled.
- Good Academic Performance.
- Regular Conduct Of Co curricular And Extra Curricular Activities For Overall Development Of Students
- Consistent Placement Record of Students.
- Excellent Liaison with Industries.

2.   WEAKNESS:

- Inadequate Highly Qualified Faculty (Ph. D)
- Number Of Mnc's in The Vicinity are Less
- Inadequate R & D and Consultancy Activities

3.   OPPORTUNITIES:

- To Develop Centers Of Excellence In Upcoming Areas Of Mechanical Engineering.
- Strengthen R&D And Consultancy Activities.
- Strengthen Industry Liaison.
- Strengthen Academic Performance Of Students.
- Strengthen placement Record of The Students.
- Collaboration And MOU's With MNC's

4.   CHALLENGES:

- Increasing Competition from New Institutes With Respect To Intake Of Students In Mechanical Engineering.
- Growing Demands from Industry Regarding Gap With Respect To Curriculum Prescribed By University and Their Needs.
- Barriers Amongst Students In Communication And Soft Skills

  FUTURE PLANS:

- Continuous improvement programs
- Developing post graduate and Ph.D. programmes.

DEPARTMENT OF BIOTECHNOLOGY ENGINEERING

1. Name of the department: **Biotechnology Engineering**
2. Year of Establishment: **2002**
3. Names of Programmes / Courses offered:
   1) B. E. Biotechnology Engineering
   2) M. E. Biochemical Engineering and Biotechnology
4. Names of Interdisciplinary courses and the departments/units involved:
   Environmental Engineering, Civil Engineering and Mechanical Engineering.
5. Annual/ semester/choice based credit system (programme wise): **semester**
6. Participation of the department in the courses offered by other Department: **Environmental 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

UG

	Sanctioned	Filled
Professors	01	Nil
Associate Professors	02	Nil
Asst. Professors	08	11

NAAC for Quality and Excellence in Higher Education

Manual for Self-study Report
Affiliated/Constituent Colleges

PG 1:1:1

	Sanctioned	Filled
Professor	01	01
Associate Professor	01	Nil
Asst. Professor	01	01

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)**

Teaching Staff					
Sr. No.	Faculty	Qualification	Designation	Specialization	No. of Years of Experience

1	Dr. M.M. Pillai	M.Sc. Ph.D.	Prof.	Cell Biology, Food Biotechnology	43
2	Mrs. P. S. Patil	B.E., M.E.	Asst. Prof.	Chemical Engineering	15
3	Mr. R.M. Gudmalwar	M.Sc., CSIR-UGC NET, Ph.D. (Pursuing)	Asst. Prof.	Biotechnology	12
4	Mrs. M.B. Petkar	M.Sc. SET, Ph. D. (Pursuing),	Asst. Prof.	Microbiology	16
5	Mr. R.P. Karkare	B.E., M.Tech.	Asst. Prof.	Bioprocess Technology	06
6	Mr. A. S. Chavan	B.E., M.Tech.	Asst. Prof.	Biotechnology	5.3
7	Dr. (Mrs.) M.R. Sanandam	M.Sc., Ph.D.	Asst. Prof.	Cell Biology, Biosensor	13
8	Mrs. Saee H. Thakur	B.E., M.E. (Pursuing)	Asst. Prof.	Chemical Engineering	5.3+2.6 Industrial
9	Mr. V.P. Ghodake	M.Sc., M.E.	Asst. Prof.	Nano-biotechnology	10
10	Mrs. S.P. Dabeer	B.Sc., M.Sc. M.E. (Pursuing)	Asst. Prof.	Microbiology	14
11	Mr. S.B. Talekar	B.E M.E.	Asst. Prof.	Biotechnology, Nanotechnology	06
12	Mr. B.S. Nainegali	B.E., M.Tech.	Asst. Prof.	Industrial Biotechnology	4.3
13	Dr. Anup Kulkarni	B.E., M.S., Ph. D	Asst. Prof.	Cell Biology, Molecular oncology	4.5

11.   List of senior visiting faculty

1.	Chemical Technology	Mr. S.A. Desai,TKIET, Warananagar.	Adjunct faculty
2.	Fermentation Technology	Dr. Dhamole P. B. BIT's Pillani	Adjunct faculty
3.	Chemical Engineering	Dr. Bhatkhande D. S. VIT Pune	Adjunct faculty

4.   Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

1) B. E. Biotechnology Engineering - 40%

2) M. E. Biochemical Engineering and Biotechnology – 100%

5. Student -Teacher Ratio (programme wise)**: STR - 10:1**

Number of Students	Number of Teachers
125	**12**

6. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Sanctioned	Filled
04	**04**

7. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D. Completed	03
Ph.D. Registered	02
M.E. / M.Tech Completed	07
M.E .Appeared	01

8. Number of faculty with ongoing projects from a) National funding agencies and grants received

Number of faculty with ongoing projects	Grants received
02	12+5+2 =19 Lakhs

9. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Sr. No.	Projects	Funding Agency	Body & Place	Worth Rs.	Status
1.	Modernization and Removal of Obsolescence in Laboratories (MODROBS)	AICTE (2012)	KITCOEK	6 Lac	Completed
2.	(RPS-AICTE) In silico drug designing against *Mycobacterium Tuberculosis*	AICTE (2014)	KIT, Kolhapur	12 lacs	Under completion process
3.	National Seminar on recent trends on Biological sensor	AICTE (2014)	KITCOEK	2 Lac	Under completion process
4.	(RPS-AICTE) Antibody based piezoelectric biosensor	AICTE (2014)	KIT, Kolhapur	5 lacs	Under completion process

10.   Research Centre /facility recognized by the University: **Nil**

11.   Publications:

a) Publication per faculty

1.	name of the faculty	2010-11 (No.of Paper presented/published)		2011-12 (No.of Paper presented/published)		2012-13 (No.of Paper presented/published)		2013-14 (No.of Paper presented/published)	
		National	International	National	International	National	International	National	International
2.	Dr. M.M. Pillai	3	5		2		1	0	2
3.	Mrs. P.T. Kininge	5		2		4	1	4	
4.	Mr. R.M. Gudmalwar	0	1				1		1
5.	Mrs. M.B. Petkar							1	1
6.	Mr. R.P. Karkare	1							
7.	Mr. A. S. Chavan	2	4	2					
8.	Dr. (Mrs.)M.R. Sanandam	1	3	1	4	2	6	3	7
9.	Ms. A.A. Kulkarni				1		2	1	2
10	Mr. V.P. Ghodake		3		2				
11	Mrs. S.P.Dabeer	1	2		1			1	
12	Mr. S.B. Talekar		1		1		6		4
13	Mr. B.S. Nainegali	2		1				1	1
14	Dr.AnupKulkarni		1						1

∗Number of papers published in peer reviewed journals (national/ international) by faculty and students

Number of papers published	56

Number of papers published in peer reviewed journals (national / international) by faculty and students	56
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.)	7
Monographs	Nil
Chapter in Books	Nil
Books Edited	Nil
Books with ISBN/ISSN numbers with details of publishers	Nil
Citation Index	
SNIP	Nil
SJR	Nil
Impact factor	Nil
h-index	Nil

12. Areas of consultancy and income generated

> **Workshop on Microbial Culturing and Testing of antimicrobial compounds 28May -01June 2013 Total income generated – Rs. 5600/-(12600)**

13. **Faculty as members in a) National committees b) International Committees c) Editorial Boards….**

Professional Society Memberships	Member of Association of Biotechnology and Pharmacy
	Member of Indian society of Gerontology
	Member of Indian society of Comparative Animal Physiology
	Fellow member of International Society of Biotech
	Member of Indian Society of Technical Education, New Delhi(ISTE)
	Life Member of Biotechnology Research Society of India, Tiruvananthpuram.
	Biosensor Society of India, CFTRI, Mysore
	British Society for Cell Biology, Edenberg

	Reviewers
	Reviewer of ACS applied materials and Interfaces, American Chemical Society Publication.
	Reviewer of Process Biochemistry, Elsevier publication**.**
	Reviewer of Journal of molecular catalysis B: Enzymatic, Elsevier publication**.**
	Reviewer of Catalysis Communications, Elsevier publication**.**
	Reviewer of International journal of Biological Macromolecules, Elsevier publication**.**
	Reviewer of PLOs ONE, Public Library of Science publication**.**
	Reviewer of Chemical Papers, Springer Publication**.**
	Reviewer of International Journal of Chemical Reactor engineering, Springer Publication**.**

14.　Student projects

a)　Percentage of students who have done in-house projects including inter departmental/programme

No. of In house Projects	No. of Students Involved	%
15 (2014-2015)	**43**	**100**

b)　Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

M E Projects 2013-14

15.　Awards / Recognitions received by faculty and students

Faculty Achievement 2013-2014

Name of faculty	Event awarded
Dr. Anup A. Kulkarni	Presented a paper on ageing and senescence at the International conference on stem cells and cancer at Haffkine's institute, Mumbai and been awarded second prize for the best presentation.
Dr. Mrs. M. M. Pillai	Medical Ethical committee Chairman Dr. D. Y. Patil Medical University, Kolhapur
	Reviewer of Ph.D. Thesis in Department of Zoology, Shivaji University Kolhapur.

Student Achievements

Students achievements	University/state	National
2010-11	2	51
2011-12	-	3
2012-13	5	9
2013-14	11	8

16. List of eminent academicians and scientists / visitors to the Department

Sr. No.	Event	Type of Event	Resource Person	Date of Event
1.	National Seminar	Co-Curricular	1)Dr. S. H. Pawar 2) Davbagkar D. N.	March 2014
2.	Guest Lecture on Nanobiotechnology	Co-Curricular	Dr .M.S. Thakur	January 2013
3.	Guest Lecture on Bioreactor Design	Co-Curricular	Dr. C.S. Mathpati	March 2013
4.	Indian Institute Interaction with Sanofi Ltd. Goa	Co-Curricular	Mr. Manoj Kharde (HR)	September 2013
5.	Prajwalith	Co-Curricular	Mr. Deewan Karveer Pharma,Kolhapur	March 2013
6.	Technozeal	Co-Curricular	Mr. Abhijeet Patil Mr. Vadikar	September 2013
7.	Pioneer 2014 1. Abhiwakti 2. Chanaksha	Co-Curricular	Dr. J. P Jadhav Mr. Litesh Malade	January 2014

17. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Sr. No.	Name of Research project	Grants received from
1.	RECENT TRENDS IN BIOLOGICAL SENSORS A National Seminar organized on 21st and 22nd March 2014	AICTE Grant received Rs. 2,00,000/-
2.	MSME 30 Days Workshop 10th Dec. 2010 to 10th Jan. 2011	Ministry of Micro, Small & Medium industries, Govt. of India
3	MSME 30 Days Workshop 12th Jan 2012 to 13th Feb 2012	Ministry of Micro, Small & Medium industries, Govt. of India

| 4 | One Week Workshop on Advanced Genetic Engineering 2010 | Management, KIT, COE,K |

18. Student profile programme/course wise: --

Year wise Sanctioned Intake	2010-11	2011-12	2012-13	2013-14
	60	60	60	60
Year wise Actual Admissions	51	46	50	46
Cut-off Marks (General Quota)	-	78	-	-
Percentage of Students Passed with Distinction	31	28	61.36	RA
Percentage of Students Passed with First Class	34	31	11.36	RA
Students Placed	8	6	7	17
Average Pay Package (Lakh per Annum)	1.8	1.8	2.0	2.0
Students Opted for Higher Studies	28	16	18	8
Departmental Achievements (University Toppers in first 10)	5	5	8	RA

RA- Result waited

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2010-11	51	51	24	27	65
2011-12	46	46	24	22	59
2012-13	50	50	16	34	72.72
2013-14	44	44	16	28	RA

*M = Male   *F = Female

19. Diversity of Students- 2013-2014

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
First year	100%	0	0
Second year	97.68 %	2.32%	0
Third year	100%	0	0

Fourth Year	95.35%	4.65%	0

20. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Academic Year	GATE qualified	GRE/TOEFL	CAT
2010-11	17	NA	0
2011-12	7	3	0
2012-13	11	1	0
2013-14	4	5	0

21. Student progression

Students progression	2010-11	2011-12	2012-13	2013-14
UG to PG	80%	80%	41%	20%
Campus selection	0%	0%	10%	10%
Other than campus selection	20%	13%	10%	31%
PG to PhD	0%	0%	0%	0%

22. Details of Infrastructural facilities

a) Library

Sr. No.	Number of Titles	Number of Volumes	Number of Journals	Number of e-Journals
1	101	109	Nil	Nil

b) Internet facilities for Staff & Students

➢ **10/100 MBPS bandwidth Centralized Computer centre along with departmental Computer Lab. With all computers in LAN connected.**

➢ **Each faculty is provided with computer and internet facility**

➢ **Department connected with Wi-Fi facility**

c) Class rooms with ICT facility – 02 Classroom with computer connected with internet facility, 02 with Wi-Fi and LCD

d) Laboratories –08

23. Number of students receiving financial assistance from college,

university, government or other agencies:

Scholarship & Free ship **SBC VJNT ST 100% tuitions fee & Exam fee OBC 50% tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee**			
2010-11	2011-12	2012-13	2013-14
75	56	53	55
EBC **50% of Tuition Fee**			
2010-11	2011-12	2012-13	2013-14
18	13	18	25
STC **4000/-**			
2010-11	2011-12	2012-13	2013-14
1	0	0	1
PTC **4000/-**			
2010-11	2011-12	2012-13	2013-14
1	1	1	1
Handicap **As per fee Receipt**			
2010-11	2011-12	2012-13	2013-14
1	2	1	1
Minority **FE To TE 10,000/- or BE 20,000/-**			
2010-11	2011-12	2012-13	2013-14
	3	2	1
Central Sector FE To TE 10,000/- or BE 20,000/-			
2010-11	2011-12	2012-13	2013-14
		2	1

24. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

Sr. No.	Name of enrichment programmes	Speaker	Date

1	Nanobiotechnology	Prof. Thakur CSIR-CFTRI, Mysore	12th Jan 2013
2	Biorector Design	Dr. C.S. Mathpati, ICT Mumbai	17th March 2013
3	Pharmaceutical Business	Mr. Manoj Kharde, HR Sanofi Ltd. Goa.	9th Oct. 2013
4	Validation in Pharma Industry.	Mr. Suhas Patil, QC Sanofi Ltd. Goa.	9th Oct. 2013

25. Teaching methods adopted to improve student learning

Organize Seminar Tutorial Projects, Quiz, Model and Poster Competition

26. Participation in Institutional Social Responsibility (ISR) and Extension Activities

Blood Donation Camps organized and guiding the students from different colleges with subject of Biotechnology, Cell Biology, Tissue Culture, Molecular Biology and Nanotechnology.

27. SWOC analysis of the department and Future plans?

STRENGTHS

1. Experienced, qualified teaching faculties from various areas of Biotechnology, Microbiology, Cell Biology, chemical Engg. etc.

2. State-of-the-art Laboratories

3. More than 100 papers were published in various reputed Research Journal & Conferences by faculty members and students

4. Research Project Funds Rs. 25 Lakhs fetched from AICTE.

5. Patents are filed in the areas i) Biosensor ii) Biodiesel production

6. Various Co & Extra Curricular Activities includes plantation, and rearing of medicinal plant.

WEAKNESSES

1. Less number of senior faculty from core field of Biotechnology Engineering

2. Department needs to have a Ph.D. approval and Research Lab recognition

3. Lack of awareness among society

OPPORTUNITIES

1. Increase the interaction with industries and institutes for research and placement

2. Scope for starting New PG/Ph.D. Programs

3. Research grants can be fetched from AICTE, DST, DBT and UGC

4. Incorporation of New technologies like Nanotechnology, Genetic Engineering and projects for masses.

5. Consultancy based on laboratory facilities in Animal cell culture, Genetic Engg.

6. Inter disciplinary research between pharmaceutical biotechnology institutes and industries

CHALLENGES

1. To activate industrial sector to start big budget biotechnology industries.

2. To retain qualified and experienced faculty

3. Create awareness of Biotechnology Engineering in Engineering students and society.

FUTURE PLANS

1. To setup Entrepreneurship Cell

2. To develop Research Center

3. Consultancy based on local and global biotech challenges

4. Develop the technology with IPR

5. To develop Bioprocess Engineering and Genetic Engineering Laboratories.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

1.   Name of the department: **Electronics and Telecommunication**

2.   Year of Establishment: **2007**

3.   Names of Programmes / Courses offered: **UG**

4.   Names of Interdisciplinary courses and the departments/units involved:

Following Interdisciplinary courses are involved in curriculum of programs:

SN	Name of Interdisciplinary course	Department
1	Engineering Mathematics-III	Mathematics
2	Data Structures	Computer Engg.
3	Environmental Studies	Environment engg.
4	Computer Network	Computer Engg./ IT

5.   Annual/ semester/choice based credit system (programme wise): **Semester**

6.   Participation of the department in the courses offered by other departments:

Name of the Department	Course
Production Engg (S.E.)	Electrical & Electronics
Mechanical Engg.(B.E.)	Mechatronics

7.   Courses in collaboration with other universities, industries, foreign instituitions, etc. :

   NA

8.   Details of courses/programmes discontinued (if any) with reasons : **NA**

9.   Number of Teaching posts

	Sanctioned	Filled
Professors	01	--
Associate Professors	03	1
Asst. Professors	11	12

10.   Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification	Desig-nation	Specialization	No. of Years of Exper-ience	No. of Ph.D. Students guided for the last 4 years
N. B. Sambre	M.E. Electronics	Asso. Prof.	Electronics	23	Nil
M.D.Sontakke	M.E. E&TC	Asst. Prof.	E&TC	13	Nil
A. M.Pol	M.Tech. Electronics	Asst. Prof.	E&TC	09	Nil
E.C.Patil	M.E. E&TC	Asst. Prof.	E&TC	11	Nil
V.A. Suryawanshi	M.E. E&TC	Asst. Prof.	E&TC	09	Nil
V.B.Gundavade	M.E. E&TC	Asst. Prof.	E&TC	07	Nil
K.V.Jadhav	M.Tech (Electronics)	Asst. Prof.	E&TC	09	Nil
P.D.Sawant	M.Tech (Micro electronics)	Asst. Prof.	E&TC	06	Nil
M.S.Shikalgar	B.E. E&TC	Asst. Prof.	E&TC	07	Nil
A.A.Shinde	B.E. E&TC	Asst. Prof.	E&TC	04	Nil
S.R. Lad	B.E Electronics	Asst. Prof.	E&TC	04	Nil
U. F. Kale	B.E. E&TC	Asst. Prof.	E&TC	01	Nil
S. S. Bhoite	B.E Electronics	Asst. Prof.	E&TC	01	Nil

11. List of senior visiting faculty – **NA**

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty - **NA**

13. Student -Teacher Ratio (programme wise)

Year	term	No. of Teachers	No. of Students	Student -Teacher Ratio
2010-11	I	13	195	15
	II	13	195	15
2011-12	I	13	207	15.92
	II	13	207	15.92
2012-13	I	13	221	17
	II	14	221	15.78
2013-14	I	15	219	14.6
	II	15	219	14.6

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sanctioned – 4   Appointed - 3

15.   Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Name	Qualification
N. B. Sambre	M.E. Electronics
M.D.Sontakke	M.E. E&TC
A. M.Pol	M.Tech. Electronics
E.C.Patil	M.E. E&TC
V.A.Suryawanshi	M.E. E&TC
V.B.Gundavade	M.Tech. Electronics
K.V.Jadhav	M.Tech. Electronics
P.D.Sawant	M.Tech Micro electronics
M.S.Shikalgar	B.E. E&TC
A.A.Shinde	B.E. E&TC
S.R. Lad	B.E Electronics
U. F. Kale	B.E. E&TC
S. S. Bhoite	B.E Electronics

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 : **NA**

19.   Publications:

2010-11

Name of Faculty	Publications			
	International Journal	National Journal	International Conference	National Conference
N.B.Sambre	1	-	-	2

2011-12

Name of Faculty	Publications			
	International Journal	National Journal	International Conference	National Conference
N.B.Sambre	1	-	1	3

2012-13

Name of	Publications

Faculty	International Journal	National Journal	International Conference	National Conference
N.B.Sambre	3	-	1	2
P.D.Sawant	-	-	-	1

2013-14

Name of Faculty	Publications			
	International Journal	National Journal	International Conference	National Conference
N.B.Sambre	5	-	-	-
U.F.Kale	1	-	4	-
S.S.Bhoite	1	-	-	1

- Number of papers published in peer reviewed journals (national /international) by faculty and students - **9**
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)- **Nil**
- Monographs - **Nil**
- Chapter in Books - **Nil**
- Books Edited- **Nil**
- Books with ISBN/ISSN numbers with details of publishers- **Nil**
- Citation Index – **Nil**
- SNIP - **Nil**
- SJR - **Nil**
- Impact factor As given above
- h-index – **Nil**

20. Areas of consultancy and income generated

AREA	INCOME GENERATED
Biomedical Instrumentation	NIL
Embedded System	NIL

21. Faculty as members in

    a) National committees - Nil

    b) International Committees - Nil

    c) Editorial Board - Nil

Sr. No.	Professional Body/ Society	Name of Faculty Members	Membership no.
1	ISTE	Mr. N,B.Sambre	
2		Mr.M.D.Sontakke	LM 71627
3		Mr. E.C.Patil	LM51596
4		Mr.A.M.Pol	

22.   Student projects

   a)   Percentage of students who have done in-house projects including inter departmental/programme – **100%**

Year	No. of students on roll	No. of students doing In-house projects.	%
2010-11	61	61	100
2011-12	60	60	100
2012-13	73	73	100
2013-14	67	67	100

   b)   Percentage of students placed for projects in organizations outside the instituition i.e.in Research laboratories/Industry/ other agencies - Nil

23.   Awards / Recognitions received by faculty and students:

   • Google Ambassador Award for western India region in 2013-14.

   • 2nd prize in international paper presentation in the year 2012-13.

   • MICROSOFT STUDENT PARTNER in the year 2013-14

Year		National	
		1st prize	2nd prize
2010-11	Paper presentation	01	02
	Technical events	08	-
2011-12	Paper presentation	03	03
	Technical events	07	12
2012-13	Paper presentation	05	04
	Technical events	-	-
2013-14	Paper presentation	1	

	Technical events		

Sr. No.	Name of student	Award
1.	Shaikh Mahamadzuber Shabbir	Research of the year 2013-14
2.	Malajure Sachin Krishnat	Research of the year 2013-14
3.	Chaughule Ateen Ajay	Best sports person of the year 2013-14
4.	Solankurkar Neha Girish	KIT Pride award 2013-14
5.	Jagtap Siddhi	KIT Pride award 2013-14

24. List of eminent academicians and scientists / visitors to the department- **07**

25. Seminars/ Conferences/Workshops organized & the source of funding

   a) National - Nil

   b) International - Nil

26. Student profile programme/course wise:

Sr. No	Programme	Year	Applications	Selected	Enrolled *M	*F	Pass percentage
1.		2010-11**	CAP	60	25	36	100%
2.		2011-12**	CAP	60	25	39	93.22%
3.	E&TC	2012-13**	CAP	60	37	26	95.89%
4.		2013-14**	CAP	60	19	39	100%

*M = Male   *F = Female

27. Diversity of Students

Name of the Course	Year	% of students from the same state	% of students from other States	% of students from abroad
Electronics & Telecommunication	2010-11	98.37	1.63	Nil
	2011-12	98.37	1.63	Nil
	2012-13	98.30	1.70	Nil
	2013-14	98.30	1.70	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	No. of Students	competitive examinations
2010-11	02	GATE
2011-12	02	GATE
2012-13	06	GATE
2013-14	02	GATE

29. **Student progression**

Session	Student Progression	%
2010-11	UG to PG	08%
	Employed - Campus Selection - Other than Campus Selection	67% 05%
2011-12	UG to PG	09%
	Employed - Campus Selection - Other than Campus Selection	59% 6%
2012-13	UG to PG	09%
	Employed - Campus Selection - Other than Campus Selection	45% 4.5%
2013-14	UG to PG	NA
	Employed - Campus Selection - Other than Campus Selection	27%

30. Details of Infrastructural facilities

    a. Library –

No. of Text Books	Reference Book	Journals
52	Nil	Nil

    b. Internet facilities for Staff & Students

    c. Class rooms with ICT facility : 2

    d. Laboratories: 9

31. Number of students receiving financial assistance from college, university, government or other agencies :

    • **Scholarship for the year 2010-11**

Type of scholarship	State/Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt	2	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	6	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	90	SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
AICTE New Delhi	Central Govt.	Nil	8,000/- per month
J&K Scholarship	Central Govt.	Nil	15000/-
EBC	State Govt	41	50% of Tuition Fee
STC PTC	State Govt	7+5	4000/-
Handicap Scholarship	State Govt	Nil	As per fee Receipt

- **Scholarship for the year 2011-12**

Type of scholarship	State/Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt	2	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	10	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	73	SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam

			fee & development Fee
AICTE New Delhi	Central Govt.	Nil	8,000/- per month
J&K Scholarship	Central Govt.	Nil	15000/-
EBC	State Govt	51	50% of Tuition Fee
STC PTC	State Govt	4+7	4000/-
Handicap Scholarship	State Govt	1	As per fee Receipt

- **Scholarship for the year 2012-13**

Type of scholarship	State/Central	No. of Students	Amount of scholarship
Central Sector Scholarship	State Govt	6	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	8	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	99	SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
AICTE New Delhi	Central Govt.	Nil	8,000/- per month
J&K Scholarship	Central Govt.	Nil	15000/-
EBC	State Govt	48	50% of Tuitions Fee
STC PTC	State Govt	1+8	4000/-
Handicap Scholarship	State Govt	2	As per fee Receipt

- **Scholarship for the year 2013-14**

Type of scholarship	State/Central	No.of Students	Amount of scholarship
Central Sector Scholarship	State Govt	3	FE To TE 10,000/- or BE 20,000/-
Minority	State Govt	5	20000/- or 25000/-
OBC SBC VJNT SC ST Student Scholarship	State Govt	105	SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee
OBC SBC VJNT SC ST Student Freeship	State Govt		SBC VJNT ST 100% tuition fee & Exam fee OBC 50% Tuition fee & Exam fee SC 100% tuition fee, Exam fee & development Fee

AICTE New Delhi	Central Govt.	Nil	8,000/- per mounth
J&K Scholarship	Central Govt.	Nil	15000/-
EBC	State Govt	43	50% of Tuition Fee
STC PTC	State Govt	4+6	4000/-
Handicap Scholarship	State Govt	1	As per fee Receipt

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts :

2011-12

Sr. No.	Name of Expert	Subject	Date
1	Mrs. Vaishali Jadhav Owner Vishmakarma founders PVT.LTD.	Career opportunities in industries.	2011-12
2	Mrs. Pallavi Desai	Workshop on preparation of GRE & TOEFFEL	04th feb.12

2012-13

Sr. No.	Name of Expert	Subject	Date
1	Mr. Shashank Upadhye Intersil Technologies, Kolhapur	Training program on "Orcad PCB Layout	13th Oct. 2012
2	Mr. Aniket Pol Square Robotics,Pune	"Robotics"	8th September 2012
3	Mr. Indrajit Tupe,Behr Hella,Pune. Mr.Tej Ghatage Director, Ghatage Patil Industries.	Opportunities available in industries	2012-13

2013-14

Sr. No.	Name of Expert	Subject	Date
1	Mr. Bhujraj Illions Institute of Technology, Chicago	Seminar on Masters and PhD Programmes.	6-8-2013
2	Mrs. Pallavi Desai	Seminar on GRE & TOFEL	6-3-2014

33. Teaching methods adopted to improve student learning
   a. Identification and bridging of gaps for the course/s.
   b. Expert's Seminar on important topic.
   c. Tutorial session on subject.
   d. Active and collaborative teaching.

    e. Use of Projector for Power point/Educational Animation presentation, Audio-video lectures.
    f. Use of NPTEL e-learning lecture series.
34. Participation in Instituitional Social Responsibility (ISR) and Extension activities:

    2010-11:
- Blood Donation Camp
- NSS camp

    2011-12:
- Blood Donation Camp
- NSS camp

    2012-13:
- Blood Donation Camp
- NSS camp

    2013-14:
- Blood Donation Camp
- NSS camp

35. **SWOC analysis of the department and Future plans**
    Strength
      a. Effective teaching & learning process.
      b. Consistently improving academic results.
      c. Students are in Shivaji University ranking.

    Weakness
      a. Interaction with eminent industries outside Kolhapur region.
      b. Research, Publications and consultancy

    Opportunities
      a. Scope for strengthening the industry instituition interaction for better placements of students.
      b. To develop R&D activities by interacting with premier industries and reputed higher learning instituitions.
      c. Enter into collaborative projects with industries and other instituitions for better exposure.
      d. Networking with other instituitions for sharing/acquiring know how of advanced technologies.
      e. Developing new curriculum in training programs for students to match the industry requirements.

    Challenges
      a. To get maximum employment.
      b. To get accreditated by NBA.

c. To cope up with international/global challenges in terms of academic quality.

Future Plan:

Short Term:

a. To improve existing infrastructure by procuring equipments and softwares.

b. To improve academic results.

c. Industrial training for faculty and students.

Long Term:

a) To start PG course.

b) To develop research laboratory.

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

1. Name of the department: **Basic Sciences and Humanities**

2. Year of Establishment:**1983-84**

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : NA

4. Names of Interdisciplinary courses and the departments/units involved:NA

5. Annual/ semester/choice based credit system (programme wise):Semester

6. Participation of the department in the courses offered by other departments: The faculty of Electrical engineering, and Engineering Chemistry participate in the courses offered by other departments as follows.

Participative unit	Other department
Electrical Engineering	Mechanical Engineering, Production Engineering
Engineering Mathematics	All departments
Engineering Chemistry	Environmental Engineering

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:NA

8. Details of courses/programmes discontinued (if any) with reasons: NA

9. Number of Teaching posts

	Sanctioned	**Filled**
Professors	**1**	**0**
Associate Professors	**5**	**4**
Asst. Professor	**20**	**16**

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

SN	Faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided for the last 4 years
1	Dr. T.S. Desai	M.Sc. Ph.D.	Asso.Prof.	Engineering Physics	18	NA
2	Mr. S.P. Desai	M.Sc.	Asst. Prof	Engineering Physics	10	NA
3	Dr. D.C. Kulkarni	M.Sc., Ph.D	Asst. Prof	Engineering Physics	2	NA
4	Dr. D.J. Sathe	M.Sc., Ph.D.	Asso.Prof.	Engineering Chemistry	14	NA
5	Dr. G.S. Kambale	M.Sc., Ph.D	Asst. Prof.	Engineering Chemistry	03	NA
6	Mr. A.H. Mane	M.Sc. (NET,SET &GATE)	Asst. Prof.	Engineering Chemistry	01	NA
7	Mr. S.V. Chavan Patil	M.Sc.	Asso.Prof.	Mathematics	30	NA
8	Mr. B.P. Shinde	M.Sc.	Asst. Prof.	Mathematics	10	NA
9	Dr. S.H. Dhanani	M.Sc., Ph.D.	Asst. Prof.	Mathematics	07	NA
10	Ms. S.S. Pailwan	M.Sc.	Asst. Prof.	Mathematics	10	NA
11	Ms. N.A. Patil	M.Sc.	Asst. Prof.	Mathematics	08	NA
12	Mr. A.H. Tikole	M.Sc.	Asst. Prof.	Mathematics	08	NA
13	Ms. A.M. Gadkari	M.Sc.	Asst. Prof.	Mathematics	00	NA
14	Ms. S.S. Patil	M.Sc.	Asst. Prof.	Mathematics	04	NA
15	Dr. M.B. Shinde	M.A., Ph.D.	Asst. Prof.	Communication Skills	06	NA

16	Mr. G.B. Kamble	M.A.	Asst. Prof.	Communication Skills	05	NA
17	Mr. P.S. Patil	M.A	Asst. Prof.	Communication Skills	02	NA
18	Ms. P.P. Kulkarni	B.E.,M.E.	Asso.Prof.	Electrical Engineering	28	NA
19	Ms. J.D. Nimbal	B.E.,M.E.	Asst. Prof.	Electrical Engineering	02	NA
20	Ms. P.S. Parmale	B.E.	Asst. Prof.	Electrical Engineering	02(Industrial)	NA

11. List of senior visiting faculty : NIL
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: 54.87% Calculated only for Basic Sciences & Humanities Subjects.
13. Student -Teacher Ratio (programme wise)
     STR – 33:1 : This ratio is calculated on the basis of faculty in Basic Sciences and Humanities department only

Number of Students	Number of Teachers
660	**20**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sanctioned	Filled
05	**05**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D. Completed	06
M.Phil completed	01
PG Completed	12

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Number of faculty with ongoing projects	Grants received
01	19 Lakhs granted Out of which 10 Lakhs is received

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received.

Dr. D.J. Sathe

Sr. No.	Projects	Funding Agency	Body & Place	Worth Rs.	Status
1.	Nanostructured molydenum dichalcogindes thin film as an efficient photoabsober for solar cell.	SERB-DST, New Delhi for start up research grant (young scientist)	KITCOEK	19 Lakhs	Ongoing

18. Research Centre /facility recognized by the University:NA
19. Publications:

a) Publication per faculty

Number of papers published in peer reviewed journals (national / international) by faculty and students

Number of papers published in peer reviewed journals (national / international) by faculty and students By faculty (In last 4 years):	
Dr. D.J. Sathe	19 International journal 03 National Conference
Mr. S.P. Desai	03 International Conference 02 National Conference
Dr. S.H Dhanani	05 International Journal 02 National journal O2 National Conference
Dr.G.S. Kamble	07 International journal 03 National 07Int Conference 12 Nat. conference
Dr. D.C. Kulkarni	07 International journal 01 International Conference 02 National conference
Dr. M. B. Shinde	04 International journal

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) NIL
  - Monographs: NIL
  - Chapter in Books: NIL
  - Books Edited:NIL
  - Books with ISBN/ISSN numbers with details of publishers

Dr. T.S.Desai	Concepts of Engineering Physics (ISBN 978-93-5126-920-5)	Self published 2013
P.P.Kulkarni	1)Basics of Electrical Engineering (ISBN 93-5126-921-2)	Self published 2013

- Citation Index, h-index:

Dr. S.H.Dhanani	H index 1.1, 3.7
Dr. D.J.Sathe	Citation index 101
Dr. G. S. Kamble	Citation index 23 H index 10 i 10 index 01

SNIP: NIL
SJR: NIL
Impact factor: NIL

20.Areas of consultancy and income generated: NIL
21.Faculty as members in
a)National committees b) International Committees c) Editorial Boards….

Dr. G. S. Kamble: Segment journal of applied Chemistry: Member of editorial board
22.Student projects
a) Percentage of students who have done in-house projects including inter departmental/programme : NA
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: NA
23. Awards / Recognitions received by faculty and students: NIL
24. List of eminent academicians and scientists / visitors to the department: NIL

25. Seminars/ Conferences/Workshops organized & the source of funding a)

National

SN	Workshops	Source of funding
1.	ISTE approved workshop on Nanomaterials and Nanoscience -Current Status and Challenges 14 June – 18 June 2010	Self sponsored
2.	ISTEapproved workshop on Total Quality Management in Engineering Education 23 May - 3 June 2011	Self sponsored

26. Student profile programme/course wise: NA (This data is made available in departmentwise record)

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M = Male   *F = Female

27. Diversity of Students: NA (This data is made available in departmentwise record)
28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : NA
29. Student progression :NA (This data is made available in departmentwise records)

30. Details of Infrastructural facilities a) Library

Sr. No.	Number of Titles	Number of Volumes	Number of Journals	Number of e-Journals	Magzine
1	1799	7403	06	Nil	30

b) Internet facilities for Staff & Students

Each unit and each laboratory is provided with computers.

10/100 MBPS bandwidth internet facility with all computers connected in LAN . Wi-Fi facility in the campus.
c) Class rooms with ICT facility (LCD projector and wi – fi facility) – 04
d) Laboratories : 05
Engineering   Physics(01),   Engineering   Chemistry   (01),   Electrical

Engineering (02), Language (01)

31. Number of students receiving financial assistance from college, university, government or other agencies : NA (This data is made available in the departmentwise records.)
32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts
33. Teaching methods adopted to improve student learning:

Organize Seminar, Quiz, Model, Poster presentation, power point presentations and videos

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: NIL
35. SWOC analysis of the department and Future plans

STRENGTHS

1. Experienced and qualified teaching faculties.

2. Mentoring

3. Smart classrooms and wi-fi facility.

4. Various Co & Extra Curricular Activities for students.

WEAKNESSES

1. Less number of technical supporting staff.

2. Lack of departmental library and departmental reading room.

3. Lack in industrial interaction.

OPPORTUNITIES

1. Increase the interaction with industries and institutes.

2. Modification and expansion of the laboratories.

CHALLENGES

1. **To improve first year examination result.**

2. To conduct courses for filling the knowledge gap.

3. Increasing depth of mentoring.

4. To retain qualified and experienced faculty.

FUTURE PLANS

To conduct more technical activities, Social Responsibility (ISR) activities and Extension activities for first year students.

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KOLHAPUR INSTITUTE
OF TECHNOLOGY'S
**COLLEGE OF
ENGINEERING
KOLHAPUR**

KIT/CEK №-1245

4 SEP 2014

Declaration by the Head of the Institution

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

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

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

Signature of the Head of the institution

**Principal,
KIT's College of Engineering
Kolhapur**

Seal:

Place: KIT's CoE, Kolhapur

Date:

4 SEP 2014

GLIMPSES OF KIT

"LATEST"- UGC & IEEE
Sponsored National Conference

AICTE & Biosensor Society Sponsored
National Seminar RTBS-2014

Youth Festival Individual
General Champonsip2013

Best Magazine Award 2013
KIT TECHNIQUE

Shivaji University Merit Prize 2013-14

Eminent Spekers & Dignitaries Visited KIT in 2013-14

Best Outing Student
Award - 2014

Youth for Society : Nss Unit

Pioneer National Level Competiton

Creative Students With Innovative Ideas

Activities

Memberships