



Shree Warana Vibhag Shikshan Mandal's



# **TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY, WARANANAGAR**



## **Self-Study Report (SSR)**



**Submitted to**  
**National Assessment and  
Accreditation Council, Bangalore**

**January 2016**



### **Late Shri.Tatyasaheb Kore**

Founder and Father of Warana Co-operative Movement

#### ❖ **Vision** ❖

To become an academy of excellence in technical education and human resource development

#### ❖ **Mission** ❖

- ▶ To develop engineering graduates of high repute with professional ethics.
- ▶ To excel in academics and research through innovative techniques.
- ▶ To facilitate employability, entrepreneurship along with social responsibility.
- ▶ To collaborate with industries and institutes of national recognition.
- ▶ To inculcate lifelong learning and respect for environment.

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**for NAAC-Accreditation of**

**Shree Warana Vibhag Shikshan Mandal's**

**TATYASAHEB KORE INSTITUTE OF  
ENGINEERING AND TECHNOLOGY, WARANANAGAR**

**Submitted To**



**NATIONAL ASSESSMENT AND  
ACCREDITATION COUNCIL**

**Submitted By**



**Est.1983**

**TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**Warananagar, Tal. Panhala, Dist. Kolhapur - 416 113. Maharashtra (INDIA)**

**Website : <http://www.tkietwarana.org>**

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# Preface

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## PREFACE

**Tatyasaheb Kore Institute of Engineering and Technology (TKIET)** is approved by AICTE, New Delhi and affiliated to Shivaji University, Kolhapur; was founded in 1983 and managed by Shree Warana Vibhag Shikshan Mandal (SWVSM); Warananagar. The institution is the realization of the vision of our leader Late Shri Tatyasaheb Kore to cater quality engineering education to students from rural area. The college hosted in a green valley of Warananagar at the footstep of Deccan Hills with the divine blessing of **Lord Jotirling** and **Goddess Mahalaxmi**. The institute is committed to produce all round engineers to drive the country through the 21<sup>st</sup> century.

During the last three decades the institute has been progressing vertically in the field of technical education and has emerged as one of the reputed institutes at the state as well as national level. All the programs, those run by institute have qualified and experienced faculty, state-of-art laboratories, library and Internet infrastructure. Twenty eight batches have been passed out since the inception, becoming alumni strength of eight thousand nine hundred and eighteen. The majority of alumni are at higher positions in various reputed industries all over the world. In addition, many of them have become successful entrepreneurs.

The far sighted educational vision of the management has given a sense of direction to the development of the institute. The intuitional growth is guided by the spirit of being **“Always Learning Organization”**, which incorporates new and advanced processes into the curricular and co-curricular activities to improve the quality of teachers learning. Applying for Accreditation by NAAC is an effort towards bringing continuous quality enhancement at TKIET. The college under the leadership of our Chairman, Secretary and Principal formed an Internal Quality Assurance Cell (IQAC) and evolved various quality systems and are at different phases of implementation.

The preparations of this Self Study Report (SSR) of institute have put up a light on the strengths and weaknesses of the institution. This retrospection has helped TKIET to build its strengths. We, the TKIET family – the Students, the Teaching and Non Teaching Staff, other Stake Holders and the Management of institute is working together to live up to our motto- **“Perfection, Precision and Efficiency”**.

**PRINCIPAL**

# Executive Summary



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## EXECUTIVE SUMMARY

India is an agricultural based country. The development of villages will bring upon the overall development of the country. Keeping this Vision in mind and adopting the concept of **“Rural Development through Co-operative Movement”**, our visionary leader **Late Shree Tatyasaheb Kore**, the founder and the architect of **Warana Educational and Co-operative Complex** established, a number of co-operative organizations with a strong missionary zeal. Eventually, Warana complex has now become a role model of rural development in India. Tatyasaheb Kore Institute of Engineering and Technology was established in the year 1983 as a part of this cooperative movement with following vision mission and objectives.

### **Vision**

To become an academy of excellence in technical education and human resource development

### **Mission**

1. To develop engineering graduates of high repute with professional ethics.
2. To excel in academics and research through innovative techniques.
3. To facilitate employability, entrepreneurship along with social responsibility.
4. To collaborate with industries and institutes of national recognition.
5. To inculcate lifelong learning and respect for environment.

### **Objectives**

- To impart quality technical education by utilizing Information and Communication Technology (ICT).
- To inculcate employability skills in the students.
- To collaborate with industries and the research institutes of national repute.
- To create entrepreneurial environment among the students.
- To generate interest about technical education among the students particularly from rural area.

During the last three decades the institute has been progressing steadily in the field of technical education and has emerged as one of the reputed institutes at the state and national level.

The institute offers 5, UG programs (4 Year BE) and 4-PG programs (2 Year M.E). The progressive growth in the intake of the institute is as below:

	Sr. No.	Courses	Existing Approved intake	Year of Starting
UG	1	Chemical Engineering	60	1983
	2	Civil Engineering	60	1983
			60	2011
			60	2012
	3	Electronics Engineering	60	1983
	4	Mechanical Engineering	60	1996
			30	2006
			30	2010
			60	2011
	5	Computer Sc. & Engineering	40	1999
			20	2001
			60	2007
			60	2012
PG	1	Chemical Engineering	18	1998
	2	Electronics Engineering.	18	2010
	3	Mechanical-Design Engineering	18	2010
	4	Civil - Construction Management	18	2011

The campus of TKIET spread over lush green 15 acres. The institute has spacious buildings having built up area of 6 acres and has scope for future development and expansion. The total strength of students in the campus is 2565. The institute has nine boys' hostels and a two separate hostel for girls within the campus. The entire campus has Wi-Fi connectivity. The institute has 33KVA uninterrupted power supply (express feeder) from MSEB. Also a separate water treatment unit is installed within the campus for supply of drinking water through a separate water line. Water harvesting care has been taken by recycling collected water in bore well in the campus and through the check dam.

Institute is providing all the advanced facilities for indoor sports activities viz. swimming pool, badminton court, table tennis court etc. There is a spacious play ground for outdoor sports like cricket, football, volleyball, basketball and athletics. There are five seminar halls, two conference halls, one latest auditorium and two open air theaters for extracurricular activities.

With all these facilities in the campus, students develop their personality in all the dimensions. There are number of cells which help the students for their professional growth. Some of these cells are

1. Career Development Cell (CDC)
2. Innovation and Entrepreneurship Development Cell (IEDC)
3. Industry Institute Interaction Cell
4. Training and Placement Cell (T&PC) etc.

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The successes of activities of these cells has reflected into,

- More than 10% of alumni are working abroad.
- Numbers of alumni are working at top positions in government organizations and institutes of national repute.
- Many alumni have started their own industries and business as entrepreneurs.
- Large number of students have qualified in national examinations like GATE, GRE, TOEFL, IELTS etc. and opted for higher education abroad.
- Large number of students has bagged university ranks and some of them have even bagged university gold medals.

TKIET has a tradition of having collaboration with the institutes of National repute; such as IIT Bombay, National Chemical Laboratories Pune, BARC, IIT Delhi and even with many renowned industries.

1. The institute has a MOU's with IIT Bombay for automation of jiggyery making unit.
2. Institute is recognized as remote center of IIT-B for various NMEICT based MHRD and IIT/IISc programs (26 programs have been conducted till date)
3. First Nodal Center for Virtual Lab program outside Mumbai has been awarded to TKIET by MHRD and IITB
4. TKIET has MOU with BRE, Texas for petroleum software ProMax; only 2<sup>nd</sup> institute having institutional subscriber in India.
5. TKIET has been selected by IIT Madras for imparting digital education center for courses through NPTEL video lectures.
6. TKIET also has a Aakash Research Center, E-yantra laboratory and 2<sup>nd</sup> rank center in India for Spoken Tutorial by IIT Mumbai.
7. Institute has MOU with different industries/ Institutes for training software like ASPEN PLUS, STAAD.Pro, MS Project, PRIMAVERA, Unisim Design, ANSYS, CATIA etc.
8. Sophisticated instruments such as FFT analyzer, CMM, Spray Dryers, SCDA based PID control, shake table for earthquake vibration measurement are available to the students to nurture their eager and scientific temperament.
9. A state-of- the art IT infrastructural facilities are provided with 1 Km diameter Wi-Fi connectivity, 800 P4 machines in wired network and 50MBPS line which is well supported to this infrastructure.

There are significant additions in infrastructure recently, such as, new library building and latest auditorium of 1500 seating capacity with acoustic facility. The library building has a built up area of 1600 Sq.mtr. The library is enriched

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with 54,000 volumes, a reference section, Digital library with 10TB data, INFLIBNET connectivity etc.

Faculty from the institute has lifetime memberships of professional bodies like ISTE, IEE, IE, CSI,IMS etc..

- In each department there is a very good research culture which is shown by receiving research grant from AICTE/ BRANS for at least one grant in each department.
- The institute has various scholarship schemes for meritorious students from each department like,
  - Scholarship by alumni for financially weaker student
  - Scholarship by management to the children of employees
  - Scholarship by trust for children of members of the trust.
  - The institute also gives cash awards to first year meritorious students.
  - Scholarship by TKIET Credit Society
- NSS unit of institute is the 1<sup>st</sup> NSS unit of an engineering college in Shivaji University, which started in the year 1995. This unit has conducted 19 outreach programs till today.
- The retention of faculty in the institute is very good and a number of faculty are representing the institute on various academic bodies of university like Management council, Academic Council, faculty of engineering, chairman of board of studies etc.
- There is faculty representation for four consecutive times on National executive council of ISTE New Delhi,
- The ISTE staff and students chapter of the institute is one of the most vibrant chapters. The institute has nearly 300 life memberships of ISTE and the chapter was established in 1984.
- There are four senior professors from the institute representing National executive council of ISTE. Three senior professors are representing on section management committee of ISTE.
- The TKIET ISTE staff chapter has bagged ISTE best chapter award at The National level.
- The TKIET ISTE student chapter has also been awarded thrice as ISTE best student chapter award.
- The faculty and students participated in UG and PG project competitions and have bagged for the 6<sup>th</sup> time 1<sup>st</sup> prize award and once the 2<sup>nd</sup> prize award in ISTE National Level Project Competition held at various NITs.



- 
- TKIET has hosted 43<sup>rd</sup> National Annual Convention in December 2013. Around 1000 delegates from all around the nation participated in this convention.
  - As a step towards Institute Social Responsibility (ISR), the institute has organized a mega event for student and adjoining villagers- “A WARKARI MELAWA ” – 3 days philosophical event.

### **SWOC- Analysis**

#### **Strengths:**

- Accreditation by NBA, New Delhi for all UG programmes for two times.
- Spacious campus with well developed infrastructural facilities and conducive atmosphere for academic development.
- A pool of dedicated, well qualified and competent faculty committed to overall development of the institute.
- Excellent library facility having Titles 17324 and volumes 53008 of reference material
- State-of-art internet facilities with wired network and Wi-Fi connectivity throughout the campus.
- Very strong Industry-Institute interaction.
- Very good liaison with institutes of National repute.
- Transparent and highly participative management.
- A part of renowned Warana Co-Operative complex
- Vibrant ISTE activities.
- Significant representation and contribution in university bodies and authorities.
- Well established training and placement cell.
- All faculty are PG qualified, 30 faculty pursuing Ph.D. and 9 faculty are with Ph.D. qualification
- Very good retention of senior faculty.
- Very vibrant and strong alumni association. Many of our alumni are working in international and National renowned organizations.
- Effective teaching learning methodology.
- Well organized student association activities and professional society chapters to conduct extracurricular activities.
- Excellent sports and gymkhana facilities.

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### **Weaknesses:**

- Location of institute away from core cities like Pune, Mumbai, Aurangabad, Kolhapur etc.
- Inadequate faculty with Ph.D. qualification.
- The institute is affiliated to a university and hence there are constraints in updating curriculum.
- Inadequacy of Sophisticated equipment hampers the research and consultancy.
- Lack of awareness about IPR among the faculty.

### **Opportunities:**

- Starting research center for different programs.
- Networking and sharing facility in terms of research, curriculum and skill development with autonomous institutes.
- Collaboration with foreign universities for possible exchange programs.
- To start a continuous education programs for technical staff from industry / professional Institutes.
- To assist the Govt. agencies in various rural development programs by providing technical expertise and consultancy.
- To introduce need based training programs in the emerging areas to cater the needs of rural market.
- Improving the student employability through the industry oriented training programs.
- Fund generation through research grants and consultancy

### **Challenges:**

- Lack of autonomy restricting the implementation of innovative academic programs
- Booming of number of new technical institutes posing challenges in retaining admission positions
- Fluctuations in Global and National economy affecting placements.

# **Profile of the Institute**

## **Institute Details**



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## Profile of the Affiliated / Constituent College

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

<b>Name</b>	Tatyasaheb Kore Institute of Engineering and Technology
<b>Address</b>	A/P- Warananagar, Tal. Panhala, Dist. Kolhapur
<b>City</b>	Kolhapur
<b>Pin Code</b>	416 113
<b>State</b>	Maharashtra
<b>Website</b>	<a href="http://www.tkietwarana.org">http://www.tkietwarana.org</a>

### 2. For communication :

Designation	Name	Telephone with STD code		Mobile	Fax	Email
<b>Principal</b>	Dr. S.V. Anekar	Off	02328-224012	077988 85025	223507	principal@tkietwarana.org
		Res		098220 37254	-	yesanekar@yahoo.com
<b>Vice-Principal</b>	Dr. S.S. Joshi	Off	02328-224013	077988 85056	223507	ssjoshi@tkietwarana.org
		Res		-	-	-
<b>Steering Committee Co-ordinator</b>	Prof. B.V. Birajdar	Off	02328-224013	083901 99000	223507	hodcivil@tkietwarana.org
		Res		-	-	-

### 3. Status of the Institution :

i.	Affiliated College	✓
ii.	Constituent College	✗
iii.	Any Other (specify)	✗

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**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?**

i.	Yes	✗
ii.	No	✓

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

NA
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**6. Sources of funding :**

i.	Government	✗
ii.	Grant-in-aid	✗
iii.	Self-financing	✓
iv.	Any other	✗

**7. UGC Recognition and University Affiliation :**

a. Date of establishment of the college: 03-08-1983

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

SHIVAJI UNIVERSITY, KOLHAPUR
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(If it is a constituent college)

**c. Details of UGC recognition:**

Sr. No.	Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i.	2 (f)	NA	-
ii.	12 (B)	NA	-

(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 Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	AICTE, New Delhi	07-04- 2015	(1 Year)	Renewed every year since 1992
ii.	DTE, Mumbai	03-08-1983	Since 1983	
iii.	Shivaji University, Kolhapur	(UG) 07-07-2015 (PG) 11-03-2015	(1 Year)	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?**

i.	Yes	✓
ii.	No	✗

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

i.	Yes	✗
ii.	No	✓

**9. Is the college recognized**

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

i.	Yes	✗
ii.	No	✓

If yes, date of recognition: .....

(dd/mm/yyyy)

**b. for its performance by any other governmental agency?**

i.	Yes	✓
ii.	No	✗

The Institute programs have been accredited two times by **National Board Accreditation (NBA), New Delhi.**

Date of Accreditation: I Cycle- 19-03-2004 to 18-03-2009

II Cycle - 16-09-2011 to 15-09-2014

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

Sr.No.	Location	Rural
i.	Campus area in sq. mts.	60724.80
ii.	Built up area in sq. mts.	24453.37 (37487.13 with Hostel )

(\* 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

Sr.No.	Particulars	Available / Not Available	In Sq. Mts
i.	Auditorium (Open Air Theatre) – 2 Nos.	Available	2000.00
ii.	Seminar Hall - 7 Nos.	Available	1081.86

- Sports facilities

Sr.No.	Particulars	Available / Not Available	In Sq. Mts
i.	Play Ground	Available	27338.92
ii.	Swimming Pool (Indoor)	Available	1242.84
iii.	Gymnasium (Indoor)	Available	1,431.93

- Hostel

Sr. No	Particulars	Number of hostels	Number of inmates	In Sq. Mts	Facilities
1	Boys Hostel	8	1055	9461.06	24 Hrs. Electricity, & Water Supply, Separate line for potable water, Generator for Power Backup, Wi-Fi, recreational facilities, Separate mess for boys & girls, ragging free environment, hot water, laundry
2	Girls Hostel	2	600	3572.70	
3	Working women's Hostel				No



- Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise)

**Residential facilities for teaching**

- a) Teaching Staff - 24 Quarters
- b) Non-Teaching Staff - 16 Quarters

- Cafeteria- Available- 3 No's

Sr. No.	Cafeteria Name	In Sq. Mts	Seating Capacity
1.	Main Canteen	422.00	200
2.	Boys Hostel Canteen	75.00	50
3	Girls Hostel Canteen	40.00	25
4.	Mess for boys	648.90	300
5.	Mess for girls	629.00	350

- Health centre - First aid, Inpatient, Outpatient, Emergency care facility, Ambulance.....Health centre staff –

Qualified	Full Time	Part Time
Doctor	-	Available
Nurse	-	Available
First aid	Available	-
Ambulance	-	Available

- Facilities like :

Facilities	Available/Not	In No./Units
Banking [ ATM ]	Available	2 Nos
Transport Facilities	Available	2 Nos
Post Office/ Courier Service	Available	1 No
Animal House	Not Available	-
Biological Waste Disposal	Available	1 No
Generator	Available	125 KVA
Solid waste Management	Available	1 No
Waste water management	Available	1 No
Water harvesting	Available	2 No

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

Sr. No.	Programme Level	Name of the Programme / Course	Duration (Years)	Entry Qualification	Medium of Instruction	Sanctioned / Approved Student Strength	No. of students Admitted
1.	Under Graduate	<b>1) Mechanical Engg.</b>					
		First Year	4	10 + 2	English	120	124
		Direct 2nd Year	3	Diploma	English	60	60
		<b>2) Civil Engineering</b>					
		First Year	4	10 + 2	English	120	114
		Direct 2nd Year	3	Diploma	English	60	60
		<b>3) Chemical Engg.</b>					
		First Year	4	10 + 2	English	60	60
		<b>4) Computer Sc. &amp; Engg.</b>					
		First Year	4	10 + 2	English	120	58
		Direct 2nd Year	3	Diploma	English	60	02
		<b>5) Electronics Engg.</b>					
		First Year	4	10 + 2	English	60	16
2.	Post Graduate	<b>1) Electronics Engg.</b>	2	UG	English	18	8
		<b>2) Mechanical Engg.- Design</b>	2	UG	English	18	18
		<b>3) Civil Engg - Constr. Mgt.</b>	2	UG	English	18	18
		<b>4) Chemical Engg.</b>	2	UG	English	18	9

**13. Does the college offer self-financed Programmes?**

Yes	
No	✓

If yes, how many?

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

Yes	✓	No		Number	03
-----	---	----	--	--------	----

- 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.)**

Sr. No	Name of the Department			Introduced Academic Year
1.	UG	B.E	Chemical Engineering	1983
2.		B.E	Civil Engineering	1983
3.		B.E	Electronics Engineering	1983
4.		B.E	Mechanical Engineering	1996
5.		B.E	Computer Science & Engineering	1999
6.	PG	M.E	Chemical Engineering	1998
7.		M.E	Electronics Engineering	2010
8.		M.E	Mechanical - Design Engineering	2010
9.		M.E	Civil - Construction Management	2011

- 16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA,)**

Sr. No.	Particulars	No. of Programme
a.	Annual System	✗
b.	Semester System	9
c.	Trimester System	✗

- 17. Number of Programmes with**

Sr. No.	Particulars	Applicable	No. of Programme
i.	Choice Based Credit System	✗	-
ii.	Inter/Multidisciplinary	✗	-
iii.	University Based Credit	✓	9

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

Yes	<b>x</b>
No	✓

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

Yes	<b>x</b>
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	22	-	40	-	114	-	-	-	-	-
Recruited	10	-	14	-	63	3	-	-	-	-
Yet to recruit										
Sanctioned by the Management/society or other authorized bodies	-	-	-	-	86	-	67	1	46	-
Recruited	-	-	-	-	66	20	67	1	46	-
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	
<b>Permanent teachers</b>							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	2	-	2	-	3	1	8
M.Phil.	-	-	-	-	1	-	1
PG	8	-	12	-	88	6	114
<b>Temporary teachers</b>							
Ph.D.	-	-	-	-	1	1	2
M.Phil.	-	-	-	-	-	1	1
PG	-	-	-	-	27	14	41
<b>Part-time teachers</b>							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

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

20
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**23. Furnish the number of the students admitted to the college during the last four academic years.**

Categories	2011-12		2012-13		2013-14		2014-2015		2015-2016	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
SC	150	52	170	62	180	58	170	58	177	62
ST	3	-	1	-	2	-	1	-	4	-
OBC	294	118	325	115	322	104	282	102	322	86
Open	1029	392	1129	468	1168	530	1262	622	1045	441
Others (VJNT, SBC)	151	49	262	85	270	74	262	69	262	50

**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	2433	111	-	-	2544
Students from other states of India	16	5	-	-	21
NRI students	-	-	-	-	-
Foreign students	-	-	-	-	-
Total	2449	116	-	-	2565

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

UG 

3 %
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PG 

0.5 %
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**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. 72867.00**

**(b) Excluding the salary component : Rs. 20982.00**

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

Yes	✗
No	✓

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

Engineering/Technology	
UG	PG
1 : 15	1 : 12

**29. Is the college applying for**

Cycle 1	Cycle 2	Cycle 3	Cycle 4
✓	✗	✗	✗

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

Not Applicable

**31. Number of working days during the last academic year. :**

308 Days

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**32. Number of teaching days during the last academic year :**

**180 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 - Dt. 02-07-2013

**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 Chemical Engineering, Civil Engineering, Mechanical Engineering and Electronics Engineering have been accredited twice by the NBA.
- ✓ Department of Computer science and Engineering has been accredited once by the NBA.
- ✓ The institute has received Quality Management Certification from ISO 9001:2000.
- ✓ The institute is a part of the success story of Warana Cooperative Movement.
- ✓ The institute has hosted ISTE National Annual Convention in 2013.
- ✓ The institute is awarded the 'Best Faculty Chapter Award' twice and 'Best Student Chapter Award' once by ISTE, New Delhi.
- ✓ The institute has won 1<sup>st</sup> Prize (2012) and 2<sup>nd</sup> Prize (2011) in Shivaji university inter-college magazine competition for 'Horizon - annual college magazine'.
- ✓ The institute has been selected as a 'Digital Education Center' for courses through NPTEL video lectures by IIT, Madras.
- ✓ Nodal Center for Virtual Lab programs by MHRD and IIT, Bombay.
- ✓ The institute has selected as a remote center for the STTP workshops through NMEICT, MHRD, Govt. of India.
- ✓ The institute has MOU with TCS, Mumbai to host online examinations like GATE, CMAT, GPAT, CAT, RRB, SSB and various national level examinations etc.

## **Criteria - wise Inputs**



# **Criterion I**

## **Curricular Aspects**

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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 become an academy of excellence in technical education and human resource development.

#### **Mission**

- To develop engineering graduates of high repute with professional ethics.
- To excel in academics and sustainable research by using innovative techniques.
- To facilitate employability, entrepreneurship along with social responsibility.
- To collaborate with industries and institute of national importance.
- To inculcate lifelong learning and respect for environment.

#### **Institution Objectives**

Tatyasaheb Kore Institute of Engineering & Technology (TKIET) has committed the following objectives to excel in quality education in engineering:

- To impart the quality technical education to the students.
- To inculcate employability skills among the students.
- To utilize latest Information Communication Technology (ICT) tools in teaching and learning process.
- To collaborate for research activities with the industries and institutes of national repute.
- To provide entrepreneurial environment to the students.
- To attract and create interest about engineering education in mind of students particularly from rural area.

#### **Publication and dissemination of Vision and Mission:**

The institute communicates the vision, mission and objectives to all the stakeholders using electronic and traditional media in the following ways:

- 
- Displayed on college website hosted with the domain **<http://www.tkietwarana.org>**.
  - Displayed in Principal office and HOD cabins.
  - Displayed in Faculty diary.
  - Displayed at various prominent areas of the institute such as Institute corridors, departments, the library, laboratories, student centers, etc.

The Principal disseminates the vision and mission of the institute to the students and their parents during the **Induction Programme** conducted every year for the first year students when they join the institute. Also, the same are disseminated to the faculty in the **Term Start Meeting** of every semester.

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

The effective implementation of the curriculum prescribed by Shivaji University Kolhapur which is NAAC accredited with 'A' grade (CGPA-3.16) and TKIET systematically design and develop action plans and follows the academic calendar. The value added courses are also planned to overcome the gaps in the curriculum and to meet the global challenges. The steps for the implementation are as mentioned below:

**1. Term Start and Term End Meeting conducted by the Principal:**

Prior to the start of the semester the Principal conducts a meeting with all teaching and non-teaching faculty to elaborate on the semester plan. Also at the end of the semester the Term End Meeting is called to review and update the faculty with the events throughout the semester.

**2. Academic Diary and Course File:**

Each faculty member maintains and updates the Academic Diary which holds the record for the following:

- Faculty name.
- Faculty load.
- Vision and Mission.
- Faculty Time Table.
- Planner for Academic year.
- Result analysis of last three years.
- Lesson plan.
- Theory attendance, test marks and assignment.

- 
- Laboratory plan.
  - Practical attendance and continuous evaluation.
  - Progressive evaluation of BE & ME project work.
  - Seminar / Conference / QIP / Workshop / Summer / Winter School Attended.
  - Research Paper published / presented.
  - Additional activities.
  - Student Feedback analysis.
  - Student Suggestions.

For each subject faculty maintains a course file. The contents of the course file are as follows:

- Program Educational Objectives, Program Outcomes.
- Syllabus, Course Objective and Course Outcome.
- List of Experiments.
- Course material (soft / hard copy).
- Question papers of the unit tests and model answers.
- Question bank.
- University question papers and model answers.

The faculty updates academic diary regularly. The Head of the department and the Principal periodically monitor the record and give instructions accordingly.

### **3. Academic Audit and Periodic Feedback**

An academic audit is conducted in the first week of every month and subject wise analysis is taken from the students with highest attendance for that month. The dimensions considered for the audit are:

- Subject knowledge.
- Planning and delivery.
- Class management.
- Communication and English.
- Practical conduction.
- Continuous evaluation methodology.
- Accountability and concern for student learning.

Based on the above factors Teaching Index (TI) is calculated for each faculty for every subject. Based upon the TI performance remedial actions are taken if required by Head of the Department.

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The student feedback is taken twice in each semester. The feedback is taken for the following attributes.

- How are the classes engaged.
- Are students satisfied with the progress of syllabus.
- Understanding of the subject.
- Teachers ability to control the class.
- Does the faculty involve the Students during lectures.
- Faculty's English proficiency.
- Faculty's voice quality.
- General teaching feedback.
- Overall performance.

The SSI is calculated based upon the above attributes and performance of the faculty is graded as poor, fair, good and excellent. The students can also comment on their expectations from the faculty. The class coordinators of respective class monitor the class attendance and are responsible for conducting academic audit and receiving the feedback of the students and is communicated to the Head of Department for the further necessary action.

#### **4. Subject Mentoring**

The subjects of each semester are clubbed into a group. The senior faculty members are designated as the mentor for each group based on their specialization. The concerned group mentors are to guide the concerned faculty and also take periodic feedback of the subject from the students regarding their understanding of the same through academic audit and semester feedback.

#### **5. Teaching Pedagogy:**

For effective implementation of teaching-learning process, various methods like video lecture, group discussions, quizzes, seminars, industrial visits and demonstrations are used by faculty. Institute encourages use of different ICT based tools for effective delivery of the subject contents.

The above mentioned teaching-learning process helps the students to learn the curriculum effectively along with additional inputs relevant to industry for technical skill development.

#### **6. Action Plan Process:**

In general, the following action plans are implemented,

- Curriculum prescribed by the Shivaji University is cautiously followed.

- 
- The HOD allots the subjects to the faculty based on their specialization, performance and experience.
  - Institute academic calendar is given to every faculty.
  - The department plans for expert lectures, workshops, seminars, webinars, paper and model presentations etc through student's associations.

**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?**

**University Support:**

Affiliation and approval of the program of study is given by the university. Regulation, curriculum, syllabus structure, text books/reference books to be followed and evaluation pattern are also given by the university. End semester theory, oral/practical examinations are conducted and degree is awarded after the completion of the programme by the university.

Three sets of the question papers are submitted by the appointed paper setter to the university and one of it is selected for the university examination.

University encourages the teaching staff to attend curriculum revision meetings, board of studies meeting and Centralized Assessment Programme (CAP).

Shivaji University provides the online portal for theory marks entry, internal marks entry, oral/practical marks entry etc. to the affiliated institutes.

**Institute Support:**

The institute provides

- Academic calendar, time table, schedule of activity including internal exams well in advance.
- Good ambience and well ventilated classes equipped with ICT facilities like LCD projectors, OHP etc.
- Seminar hall to conduct guest lectures, seminar etc.
- Wi-Fi in entire campus and hostel.
- Personal computer to faculty in departmental faculty cabins with internet facility and printers in the HoD cabins.
- Well equipped laboratories.
- Transportation facility for students.

- 
- Aakash tablets are provided to the faculty to use educational apps under the NMEICT project of MHRD.
  - A central library facility is equipped with digital library, OPAC software, e- journals, CDs on various technical topics etc.

The entire faculty use the modern teaching methods for effective delivery of the subject contents like Power Point Presentations, Animations, Video footage, etc.

The **subject mentoring** scheme is also implemented by every department with the active involvement of the senior and expertise faculty for up-to-date and effective delivery of subject contents. Institute also invites various industry experts to interact with the faculty from time to time for quality upgradation.

The institute also encourages the faculty to go for higher qualification in various reputed institutes. Research and Development work is also encouraged in various fields.

The faculty is also promoted to attend various Faculty Development Programs (FDP), Short Term Training Programs (STTP), Workshops, Seminars, Conferences, etc. conducted by home and other institutes/universities on subjects concerned to teaching methods and other course related topics.

#### **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 the traditional black board teaching method the institution takes up the following initiatives for the effective delivery of curriculum:

- **Moodle (Modular Object Oriented Dynamic Learning Environment)**

Moodle is a web based Open Source tool used for providing several activities. The institute has configured a Moodle server for providing digital learning services. Each faculty member and every student has been provided an individual login to use the services.

The faculty members upload reference material in the form of video, PPTs, PDFs, etc. Even the faculty members arrange online tests and give online assignments to the students through this service.

- The institute has purchased the NPTEL video lecture services containing the expert lectures by IIT professors, eminent professors from other institutes and scientists. The video data is available to all the concerned in the college campus.

- 
- The book bank facility is provided by the institute through the library. This service is apart from the borrow card facility provided to the student for regular book related transactions.
  - The digital library service is provided by the institute containing various Journals (online and offline), conference papers, OPAC services for the maximum utilization by the students.
  - Department library is available apart from central library to cater the needs of faculty and students.
  - The faculty members are required to prepare a lecture plan for their respective subjects. The lesson plan is taken as model for delivery of one's contents related to the subject.
  - Expert lectures of eminent personalities from the reputed institutes, industry are invited to interact with the students and faculty on various curriculum related subjects and advances in technology in the industrial environment.
  - Extra lectures are conducted for the Direct Second Year students for the part of the syllabus that they may have missed due to the delay in admission process.
  - Remedial classes are arranged for the weaker or failed students of those commonly considered as difficult subjects by the students.
  - Preliminary examination is conducted for the first year engineering students.

#### **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 utilizes one of its most important resources is the alumni's of the institute to periodically take the industry feedback for the current requirement of the industry. Based on this feedback curriculum is revised every 5 years to ensure the effectiveness in curriculum deployment.

Our institute has a separate training and placement cell to have better interaction with industries for arranging placement drives, industrial visits and in plant training for students. Faculty and students are allowed to go for industrial visits in the nearby vicinity of the institute for the better understanding of ongoing in the industries.. Reputed industries are conducting on campus recruitment drives.

Seminars and workshops are also conducted through MoUs and invitations to various experts from the industries and research centres of high repute like Wipro, TCS, Infosys, Texas Instruments, L&T, Ramkrishna IT Solutions, Keyboyet, Black & Veatch, Galaxy Surfactants, NCL, DRDO etc.



Academicians from various reputed national institutes are also invited for discussion over the operationalisation of the curriculum. Some of the members of the faculty for example, chairman Board of Studies, members Academic Council etc. interact with university and contributes for any revision of syllabus as required by the latest industrial and technological development.

**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 being affiliated to the Shivaji University abides to the syllabus as defined by the university. The engineering program structure defined by the university is semester based.

The curriculum is revised every five years by the university. The institute actively participates in the curriculum design process for various departments concerned to the institute. Each department has an advisory academic board that deliberates within the faculty members, students, alumni, and industry experts before proposing the syllabus to the syllabus revision committee of the university.

Many of the faculty members are working in various committees at the university level. The details are listed below,

Sr. No.	Faculty Name	Department	Post held at University
1	Shri. G. D. Patil	Secretary, Shree Warana Vibhag Shikshan Mandal, Warananagar	Academic Council Member
2	Dr.S. V. Anekar	Chemical Engineering	BOS Chairman, BOS Member
3	Dr. S. S. Joshi	General Engineering	BOS Chairman, BOS Member
4	Dr. D. N. Mane	General Engineering	Academic Council Member, BOS Chairman
5	Prof. M. B. Kulkarni	General Engineering	BOS Member
6	Prof. D. G. Chougule	Electronics Engineering	BOS Member
7	Prof. R. T. Patil	Electronics Engineering	BOS Member
8	Dr. B. T. Salokhe	Electronics Engineering	BOS Member

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9	Prof. N H Shinde	Chemical Engineering	BOS Member
10	Prof. S. A. Desai	Chemical Engineering	BOS Member,
11	Prof. S. T. Patil	Chemical Engineering	BOS Member
12	Prof. K. I. Patil	Chemical Engineering	BOS Member

**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 design, development and planning of the courses is available with the respective departments. Assessment and evaluation of the courses are carried out at the end of the course.

The various courses conducted by the respective departments are mentioned as below,

Sr. No.	Title	Type of course	Duration	Department	Remark
1	ProMax Foundation Course- Level-I	Collaborative	60 Hours throughout semester	Chemical Engineering	Certification by Institute
2	Application of ASPEN Plus in Chemical Engineering	Collaborative	60 Hours throughout semester	Chemical Engineering	Certification by Institute
3	Workshop on PHP, MySQL and Apache	Collaborative	One week	Computer Science and Engineering	Certification by Institute
4	Workshop on Core Java	Collaborative	One week	Computer Science and Engineering	Certification by Institute
5	Workshop on ASP.NET	Collaborative	One week	Computer Science and Engineering	Certification by Institute

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6	Workshop on Android Application Development	Collaborative	Two days	Computer Science and Engineering	Certification by Institute
7	"Robotics" by Robogenesis, Bangalore.	Collaborative	2 Day	Electronics Engineering	Certification by Institute
8	Microsoft Project	Collaborative	8 Days	Civil Engineering	Certification by Institute
9	Microsoft Project	Collaborative	10 Days	Civil Engineering	Certification by Institute
10	PROEE Software	Collaborative	15 Days	Mechanical Engineering	Certification by I-Global solutions, Pune
11	Hyper Mesh	Collaborative	15 Days	Mechanical Engineering	Certification by I-Global solutions, Pune
12	CFD Training	Collaborative	One week	Mechanical Engineering	Certification by Koshal Industry, Sangli
13	ANSYS Software Training	Collaborative	One week	Mechanical Engineering	Certification by Institute

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

- Following the academic calendar Mid-term and End-term tests are conducted in order to analyze the understanding of the students with regards to their present curriculum. The results of these tests are then analyzed by the respective faculty members of the department and the failed students are counselled and trained with regards to their understanding of the subject.
- Various cells established by the institute, including the T&P, CDC & EDC, work consistently towards improving the students employability through various events like workshops, seminars and face-to-face counselling to make the students ready for the competitive world.

- 
- The institute being located in a rural area, also actively participates in the social causes towards enriching the awareness among the people in various causes including education, Social Awareness etc.

## **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.**

#### **Mechanical Engineering**

##### **1. Entrepreneurship and Development Program**

###### **Goals:**

- Entrepreneurship majors will apply a working knowledge of the principles of entrepreneurship to analysis and problem solving.
- Entrepreneurship majors will be able to create and start new ventures.
- Entrepreneurship majors will know how to manage and grow new ventures.

###### **Objective:**

- Recognize the importance of entrepreneurship and identify the profile of entrepreneurs and their role in economic growth.
- Creatively analyze the business environment, opportunity recognition, and the business idea-generation process.
- Write a business plan that creates and starts a new venture.

##### **2. Introduction to CFD**

###### **Goals:**

- To train the students about the software with help of hands on practice sessions.
- To train the students regarding the critical analysis of the defined problem.

###### **Objective:**

- Students are able to use the fluent 14.5 which is popular commercial software.

##### **3. Robotics workshop**

###### **Goals:**

- Detailed knowledge of Electronics and Electrical concepts along with manual and autonomous Robot.
- Each and every component's complete knowledge would be given to every student including the companies, types, values, datasheet Analysis, fault finding techniques etc.

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**Objectives:**

- Students will learn to choose various components.
- Students will be able to control the robots using basic electronic components, Computer, Matlab etc.

**4. Supply chain management****Goals:**

- To reduce an organizational inefficiencies.
- To achieve efficient fulfillment.
- To drive customer value.

**Objectives:**

- To introduce the major building blocks, major functions, major business processes, performance metrics, and major decisions (strategic, tactical, and operational) in supply chain networks.
- To provide an insight into the role of Internet Technologies and Electronic Commerce in supply chain operations and to discuss technical aspects of key ITEC components in supply chain management.
- To bring out the role of optimization models (LP, ILP, MILP, GA, Constraint Programming); and simulation in supply chain planning and decision-making. This will provide the foundation for design and analysis of supply chains.

**5. Introduction to ProE –****Goals:**

- Student will learn how to use Computer Aided Drafting (CAD) and Computer Aided Manufacturing (CAM) program software to generate word address programs in the manufacturing of parts according to engineered drawings.

**Objectives:**

Students will be able to:

- Create, analyze and produce 2D drafts
- 3D parametric models of parts and assemblies.
- Will become proficient in fundamental 3D modeling techniques.
- Create, place, and constrain custom and standard components in an assembly.

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## **6. PLC and Automation -**

### **Goals:**

1. To study of the applications of industrial automation systems.
2. The student will be able to perform preventative maintenance, identify or solve problems in machines, and other technologies.

### **Objectives:**

1. Explain the General function of Industrial Automation.
2. Identify Safety in Industrial Automation.
3. Identify Practical Programmable Logic Controller Applications.

## **Civil Engineering**

### **1. Microsoft project**

#### **Goals:**

The Microsoft Project includes project work and project teams, schedules and finances. Microsoft Project is designed to help users to set realistic goals for project teams and customers by creating schedules, distributing resources and managing budgets.

#### **Objectives:**

- Create a Work Breakdown Structure.
- Identify Task Relationships.
- Define Resources within Microsoft Project.
- Make Work Package Estimates.

## **Chemical Engineering**

### **1. ProMax Foundation Course- Level-I**

#### **Goals:**

- Basics of process simulation methods.
- Capabilities and features of ProMax simulation software.
- Plant modeling techniques and methods.
- Common process design and operational practices.

#### **Objectives:**

- The Level 1 – Refinery Focus course covers the fundamental process knowledge used in the design, operation, and optimization of some refining facilities, and the implementation of that process knowledge using process simulation and ProMax®. The processes include sour water strippers,

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sweetening, crude fractionation, sulfur recovery, and pipelines, as well as some equipment rating and sizing. Each process is discussed with emphasis on common specifications, rules-of-thumb, and product requirements.

- In addition, the basics of process simulation are discussed, along with the capabilities and features of the ProMax® process simulation software. Many techniques and methods used in developing simulation models for plants and facilities will be covered. The course is designed to demonstrate the extent and breadth of benefits ProMax® can provide for refinery facilities, and applications of process simulation using ProMax® through a hands-on implementation of the various processes using simulation.

## **2. Application of ASPEN Plus in Chemical Engineering**

### **Goals:**

- Steady state process simulation.
- Design, simulate process plant.
- Optimize plant performance and profitability.

### **Objectives:**

- To demonstrate how to build process flow sheet simulation.
- For a process simulation how to select appropriate thermodynamics model.
- To create awareness of APEN PLUS features.
- To introduce basis input required forum on aspen plus simulator.
- To review major types of unit operation models.
- To use sensitive analysis to study relationship between process variables.

## **Computer Science and Engineering**

### **1. Workshop on PHP, MySQL and Apache.**

#### **Goals:**

- Participant learn foundation of PHP, MySQL and Apache.
- Participant understand through code with example/practical.

#### **Objectives:**

- Understand PHP and its fundamentals.

- 
- Identify to the components needed to run a PHP application (Apache Web Server, MySQL Database, PHP Scripting) familiarize with the basic programming constructs of PHP.
  - Retrieve and display data from directories and databases build data driven and interactive pages.

## **2. Workshop on Core Java**

### **Goals:**

- Fundamentals of Java programming and how to use Java to write applications.
- Core object-oriented concepts, including classes, packages, objects, methods, properties, abstraction, polymorphism, inheritance, encapsulation, and more.

### **Objectives:**

- Fundamentals of Java programming and how to use Java to write applications.
- Understanding of OOPs concept.
- Create object-oriented programs using Java programming language.
- Create Java classes by extending existing Java classes.
- Implement Interfaces in Java application.

## **3. Workshop on ASP.NET**

### **Goals:**

- Ability to complete a Live Project with most of the functionalities available in .Net
- Understand the architecture and design of ASP.Net and code according to international standards.
- Use the newer functionalities available in ASP.Net 4.5.
- Understand client and server scripting.

### **Objectives:**

- Create a rich GUI for web based applications using a rich set of controls.
- Create secure (authentication and authorization) web applications.
- Personalize a web page using Web Parts.



- 
- Create and deploy asynchronous web applications using ASP.NET AJAX.
  - Create and use web services.

#### **4. Workshop on Android Application Development**

##### **Goals:**

- Learn about mobile application using Android app.
- To become an Android app developer.
- To develop an innovative application oriented app.

##### **Objectives:**

- Build your own Android apps.
- Explain the differences between Android and other mobile development environments.
- Understand how Android applications work, their life cycle, manifest, Intents, and using external resources.
- Take advantage of Androids APIs for data storage, retrieval, user preferences, files, databases, and content providers.
- Utilize the power of background services, threads, and notifications.
- Secure, tune, package, and deploy Android applications.

#### **5. Soft Skill training**

##### **Goals:**

- To provide job opportunities by bringing the companies for campus recruitment to all the eligible students of final year .

##### **Objectives:**

- To inculcate self confidence in students to freely express and present their ideas.
- To provide training to solve aptitude problems and improve their core subject knowledge.
- To give Industrial exposure through experts from industries.
- To develop the Leadership qualities with professional ethics and societal awareness.

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## **Electronics Engineering**

### **1. ROBOTICS workshop**

#### **Goals:**

- Robotics Workshop focuses on empowering students and enthusiasts with capability of understanding and using microcontrollers and basic autonomous robotics.
- It provides them the best available hardware and software tools.
- They will be able to implement the knowledge and resources in competitions held at many Technical Festivals happening in IITs, NITs and other engineering colleges across India.
- Learning and training will also help in Final Year Projects, Thesis, Minor and Major Projects, Industrial Projects and day to day life.

#### **Objectives:**

- The main objective of this workshop is to discuss new fundamental research directions and their applications for the next generation of robots.

#### **1.2.2 Does the institution offer programme 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 programmes and courses.
- Enrichment courses.

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- **Core / Electives offered for students:**

The institute follows the curriculum design of the Shivaji University. The core subjects are compulsory from first year to third year.

The university has given the provision for elective subjects to the final year student's at least one in number per semester. The program wise details are provided herewith.

Elective list to be provided by Departments,

Sr. No	Name of Department	No. of Electives offered by University	No. of Electives taken by Dept.
1	Civil Engineering	30	9
2	Chemical Engineering	18	5
3	Computer Science and Engineering	6	4
4	Electronics Engineering	20	2
5	Mechanical Engineering	16	2
<b>Total</b>		<b>90</b>	<b>22</b>

- **Credit transfer and accumulation facility**

The credit transfer and accumulation system is implemented as per DTE and Shivaji University norms.

- **Lateral and vertical mobility**

The institute facilitates lateral mobility of students at the second year level who are willing to change the programme. The conditions for the mobility are specified by DTE and Shivaji University regulations. The vertical mobility of the students is based on the yearly results of the student confined to the university rules.

- **Enrichment courses**

The institute provides various enrichment courses listed in 1.1.7

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

- The institute being unaided self financed, all the programs run on the self-finance mode.

- The admission process is bound to the DTE directions and institute abides to the rules and directions of the DTE Mumbai.
- The institute is affiliated to the Shivaji University and follows the curriculum designed by the university.
- The fee structure of the institute is governed by the regulations of SHIKSHAN SHULKA SAMITI, Maharashtra State and Shivaji University rules and is revised on yearly basis.
- The institute strictly follows the teacher qualification rules defined by AICTE New Delhi, UGC New Delhi and Shivaji University, Kolhapur. The faculty appointment is based on the directions provided by the mentioned bodies with the qualification being the major governing factor. The institute also encourages the faculty member to improve their qualification under various programs.
- Salary of the faculty is confined as per 6<sup>th</sup> Pay commission regulations.

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

Yes, the college conducts a number of programmes to enhance “soft skills” as listed below:

Academic Year	Name of the Soft Skills Trainer	Institution/ Industry	Period	Beneficiaries
2014-15	Ms. Sneha Pai	Finesse academy, Kolhapur	30 hours in July 2014	Third year students for CSE and Electronics
	Mrs. Sneha Waghdkar	RKIT Pune	9 <sup>th</sup> to 16 <sup>th</sup> February 2015	Third year students for CSE and Electronics
	Mr. Sanir Kittur	Aptec, Kolhapur	80 Hours through 3 months	Third and Final year students.
	Mr. Prassana Joshi Mr. Gurudutta Joglekar	O2 Breathing Institute, Miraj	28 <sup>th</sup> 29 <sup>th</sup> January 2015	First Year Students.

	Ms. Sneha Wankedkar	Eminence, Pune	14 <sup>th</sup> February to 8 <sup>th</sup> March 2015	First Year Students.
	Ms. Sneha Wankedkar	Eminence, Pune	29 <sup>th</sup> June to 4 <sup>th</sup> July 2015	First Year Students
2013-14	Ms. Sneha Pai	Finesse Academy, Kolhapur	30 hours in July 2013	Third year students for CSE and Electronics
	Mrs. Sunita Badekar	Techrel Technology, Pune	3 <sup>rd</sup> to 8 <sup>th</sup> February 2014	Third year students for CSE and Electronics
	Mr. Samir Kitture	Aptek, Kolhapur	80 Hours through 3 months	Final year students.
	Mr. Rahul Trivedi	Globerana Technology Pvt. Ltd., Hyderabad	13 <sup>th</sup> , 14 <sup>th</sup> February 2014	First Year Students.
2012-13	Mr. Basavraj Hooli	Mayur Consulting services, Pune	3 <sup>rd</sup> and 4 <sup>th</sup> April 2013	First Year Students.
	Ms. Sneha Waghdkar	Ramkrishna IT Solutions, Pune.	3 <sup>rd</sup> to 8 <sup>th</sup> February 2013	Third year students of Civil department.

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

NO

### **1.3 Curriculum Enrichment**

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

The institution follows the university curriculum supported by the additional inputs that are in the trend to keep students being aware of the recent advancement in the subjects. If new developments and new

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related materials are found the same information is passed on to the students through ICT enabled class rooms, Wi-Fi facility, central library with digital facility, NPTEL/Online videos etc.

The efforts are taken by the institute in the form of additional inputs (as mentioned in 1.1.7) apart from curriculum so that the institutional goals and objectives can be achieved. The university provides a new syllabus after every five years. A concerned faculty member keenly goes through the syllabus and decides what additional inputs are necessary to meet institutional goals and objectives.

Guest lectures are arranged from subject experts outside the institute to teach a specific part of syllabus or a part of subject not included in the syllabus but it is the need of the student for their employment. The institute have introduced Entrepreneur development cell to make the students successful Entrepreneur. The departments have signed MOUs with various industries to interact the students with industries.

Apart from technical knowledge, some soft skills like communication skill, leadership skills etc. are required to be there so that the students will become employable. In order to cater this need the institute every year arranges paper presentation contest “EUREKA” and project competition “JIDNYSA” which gives lot of inputs to students regarding recent happenings in the industries.

The Institute undertakes research projects through Research Promotion Scheme (RPS) and MODROB. The AICTE provides funds through these schemes to the institute. Students have encouraged for active participation in this research projects. These projects become helpful for the employability of the students.

### **1.3.2 What are the efforts made by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market?**

The institute adheres to the Curriculum designed by the Shivaji University; apart from this the following steps are taken by the institute for overall development of the students:

- Different cells for organizing various activities are as follows:

#### **I. Training and Placement Cell (TPC):**

The training and placement cell of the institute looks after various campus and off-campus recruitment activities. The activities include various Training programs on Soft Skills, Technical training based on specific program and

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seminars/workshops from Industry and Research area. The TPC approaches and invites the HR managers of Industries of high repute to hold campus related activities in the institute premises.

## **II. Career Development Cell (CDC):**

The institute has an active CDC which boost the learning experience of the students with regards to different competitive examinations like GATE, CAT, MPSC, UPSC, PSU, etc. Various events like Seminars, Group Discussion, Aptitude Test (online and offline), Guest Lectures are carried out by this cell. This helps the students towards choosing the appropriate career options.

## **III. Entrepreneurship Development Cell (EDC):**

The institute have introduced EDC to make the students successful Entrepreneur by inviting esteemed Entrepreneurs in the campus to interact with the students in collaboration with MCED.

- The institute has signed several **MOUs** with reputed organizations for student beneficial activities including training, workshops, etc..
- **Academic Projects:** All the students undertake diverse project work as a part of academic curriculum. The projects undertaken are categorized as
  - I. **Mini Project:** The pre-final year students are to model and implement a mini project.
  - II. **Major Project:** The final year students are to undertake cutting edge, industry relevant project as a part of their curriculum. The project spans for a year and is preferably sponsored by some reputed organization.

- **Co-Curricular:**

Apart from technical knowledge, some soft skills like communication skill, leadership skills etc. are needed so that the students will become employable. In order to cater these needs the institute every year arranges paper presentation contest “EUREKA” and project competition “JIDNYSA”. Also students are encouraged to participate in several other co-curricular and extra-curricular activities. The institute has also introduced a event called “Industry Problem Solver” competition wherein live problems are invited from the reputed industries which are modeled and preferably implemented by the students of home and other institutes.

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- **Syllabus Revision Workshop**

The institute actively participates in the curriculum design process for various departments concerned to the institute. Each department has an advisory academic board that deliberates within the faculty members, students, alumni, R&D organizations and industry experts before proposing the syllabus to the syllabus revision committee of the university.

**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?.**

- **Ladies Internal complaint committee**

Since 2003 our institute is providing safe and tension free atmosphere to the girl students as well as ladies faculty. The sexual Anti-Harassment committee formerly known as “Vishakha” Committee is established as internal complaint resolution committee according to the Indian Penal Code Act 2013, “Prevention, Prohibiting and Redressal Act”, regarding the sexual Harassment of Women at work place is in our institute.

Prevention of sexual harassment in the workplace requires awareness in both employers and employees. The institute has formed a committee of eleven members, which addresses such topics as the national laws that prohibit sexual harassment; creating workplace policies and steps that individual can take.

- **Gender equality**

The institute has a clear gender independent policy with regards to the curricular, co-curricular and extra-curricular activities.

- **Human rights**

The institute has formed an anti-ragging committee chaired by senior faculty of the institute, and comprising of faculty representatives and student representatives so as to avoid an undue incidences of ragging.

In case any tragic incidence affects any of the institution stakeholders, the faculty members and students of the institute voluntarily come forward to help the concerned.

- **Environmental education and Climate change**

As per the curriculum defined by Shivaji University,



“Environmental Science” is a course studied at SE level as a mandatory subject. The subject is aimed at creating awareness amongst the students regarding Environmental and Climate changes.

The institute also carries out several events like Tree Plantation, No-Vehicle day, NSS camp and e-Waste management camp for creating awareness of environment.

- **NSS camp**

The institute organizes NSS camp every year under which several activities like Shram Daan, Blood Donation, Tree plantation, Educational awareness, save girl child, etc. are conducted. Every year 75 students and several faculty members take rigorous efforts to conduct the camp at rural areas. The list of the camps conducted in past 5 years is shown below:

Sr. No.	Location	Year
1	Jakhale	2015-16
2	Padali	2014-15
3	Jakhale	2013-14
4	Ambawade	2012-13
5	Mittarwadi	2011-12
6	Aarale	2010-11

- **ICT**

The institute is recognized as a remote centre for conduction of ICT based workshops by IIT Mumbai and IIT Kharagpur. Following is the list of workshops conducted at the institute under the program, which is funded by MHRD.

Sr. No	Workshop Title	Start date	End date	Duration	Conducti on Year
1	Two Week ISTE STTP on Introduction to Design of Algorithms	25 <sup>th</sup> - May-2015	30 <sup>th</sup> - May-2015	Two Week	2015
2	Two - Week ISTE Short Term Training Programme (STTP) on Pedagogy for Effective use of ICT in Engineering Education	January 5 <sup>th</sup> , 2015	January 31 <sup>st</sup> , 2015	Two Week	2015
3	Two Week ISTE Main Workshop on Cyber Security	July 10 <sup>th</sup> , 2014	July 20 <sup>th</sup> , 2014	Two Week	2014

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4	Two Week Main Workshop on Control Systems	15 <sup>th</sup> -Sep-2014	19 <sup>th</sup> -Sep-2014	Two Week	2014
5	Two Week Main Workshop on Fluid Mechanics	20 <sup>th</sup> - May-2014	30 <sup>th</sup> - May-2014	Two Week	2014
6	Two-Week Main Workshop on Signals & Systems	02 <sup>nd</sup> -Jan-2014	January 12 <sup>th</sup> , 2014	Two Week	2014
7	Two Week ISTE Main Workshop on Computer Networking	June 30 <sup>th</sup> , 2014	July 5 <sup>th</sup> , 2014	Two Week	2014
8	Two Week ISTE Main Workshop on Computer Programming	May 20 <sup>th</sup> , 2014	June 21 <sup>st</sup> , 2014	Two Week	2014
9	Two-Week Main Workshop on Analog Electronics	June 4 <sup>th</sup> , 2013	June 14 <sup>th</sup> , 2013	Two Week	2013
10	Two-Week ISTE Workshop on Engineering Mechanics	November 26 <sup>th</sup> , 2013	December 6 <sup>th</sup> , 2013	Two Week	2013
11	Half Day ISTE Workshop on Green Building Awareness	August 24 <sup>th</sup> , 2013	August 24 <sup>th</sup> , 2013	Half Day	2013
12	Two-Week ISTE workshop on database management systems (Main Workshop)	May 21 <sup>st</sup> , 2013	May 31 <sup>st</sup> , 2013	Two Week	2013
13	Aakash Android Application Programming Workshop for Students	February 23 <sup>rd</sup> , 2013	March 3 <sup>rd</sup> , 2013	Two Week	2013
14	2-day ISTE workshop on research methods in educational technology	February 2 <sup>nd</sup> , 2013	February 9 <sup>th</sup> , 2013	Two Day	2013
15	2-week ISTE workshop on engineering thermodynamics	December 11 <sup>th</sup> , 2012	December 21 <sup>st</sup> , 2012	Two Week	2012
16	2 days ISTE Workshop on Aakash for Education	November 10 <sup>th</sup> , 2012	November 11 <sup>th</sup> , 2012	Two Day	2012
17	Introduction to Research Methodologies	June 25 <sup>th</sup> , 2012	July 4 <sup>th</sup> , 2012	Two Week	2012

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

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

The value-added courses offered by the institute are mentioned as below,

Department Name	Value Added Courses
Mechanical Engineering	ANSYS
	Pro-E
	CFD Training
	HYPER Mesh
	Entrepreneurship Development Program
	PLC & Automation
Electronics Engineering	"Robotics" by Robogenesis, Bangalore.
Civil Engineering	Microsoft project
Computer Science and Engineering	Workshop on PHP, MySQL and Apache
	Workshop on Core Java
	Workshop on ASP.NET
	Workshop on Android Application Development
Chemical Engineering	ProMax Foundation Course- Level-I
	Application of ASPEN Plus in Chemical Engineering

• **Moral and ethical values :**

Sr. No	Nature of Service	Year
1	E Waste collection in campus	2014-15
2	No vehicle day	2014-15
3	Women's Day Celebration	2014-15
4	Passport Registration Campaign	2014-15
5	Swacha Bharat Abhiyan	2014-15
6	Donation to Draught suffering people	2013-14
7	Felicitation of Academic Achievers in Surrounding schools and colleges	2013-14

- **Employable and life skills / Better Career Option**

To increase the employability of the students, there are several value added workshops and activities are organized in the institute. Guest lectures and workshops are arranged by departments 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,

Academic Year	Special Lectures/ Workshops/ Seminar	Title	Date	External Experts
2014-15	Lecture	Present construction industry scenario	26 <sup>th</sup> July 2014.	Mr.S.D.Patil, Cluster Head, L & T construction, Mumbai
2014-15	Lecture	Personality development & Communication skill	17 <sup>th</sup> July 2014	Mrs Preeti patil, HR Manager, B& M Infra Pvt. Ltd., Pune
2014-15	Lecture	Value Education	11 <sup>th</sup> August 2014	Mr.Shivaji Nerli
2014-15	Lecture	Project Management	22 <sup>nd</sup> Sep.2014	Mr.Arunkumar Joshi
2014-15	Workshop	Rain Water Harvesting	20 <sup>th</sup> Aug.2014	Mr.Sandeep Aadhypak
2014-15	Workshop	Microsoft Project – MSP	26 <sup>th</sup> August 2014	iGLOBAL SOLUTIONS, PUNE
2013-14	Lecture	Scope of Technical Education	29 <sup>th</sup> July, 2013	Dr. Bhimraya Mhetri
2013-14	Lecture	Microsoft Project – MSP	31 <sup>st</sup> july, 2013	IGLOBAL SOLUTIONS, PUNE
2013-14	Lecture	The Opportunities in Government Services”	24 <sup>th</sup> August, 2013.	Mr. D D Shinde (AEE -I) WRE Dept
2013-14	Lecture	The Opportunities in Civil Engineers	21 <sup>st</sup> Jan 2014	Mr Hemant Jain, Regional Manager, Ultratech Cement

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- **Community orientation:**

The institute make the students to be aware regarding their responsibility towards society and inculcate it at early stage of their corporate or professional life. The institute deputed a team faculty member to organize such programs. NSS is one of the strong contributors (Refer 1.3.3)

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

The stakeholders including the Industry, R&D organization, Alumni, parents and students are actively involved by the institute for effective and up-to-date curriculum delivery to the students.

- The T&P, CDC and EDC cells of the institute actively look towards the feedbacks taken from the industry and R&D organizations for bridging the gap in the current curriculum and the current state in the outside world.
- Every year four alumni meets are conducted at various locations by the alumni cell. The cell involves representatives from all the departments. The alumni from varying batches interact on their experience in the institute and industry, and suggest modifications in the current practices.
- The T&P cell also takes the views of the current students and provides training of the concerned subjects as per the need of the students.
- In the yearly parents-teacher meeting, suggestions are invited from the parents for enriching the curriculum.
- At the end of every semester the department collects feedback from every student about the effectiveness of the curriculum delivery. The data is analysed and suitable measures are taken by the HoD.
- The members of faculty give their oral feedback to the HoD for the enrichment of the curriculum during faculty meeting for the further necessary action and implementation.

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

#### **Monitoring**

The execution committee organizes tests (online and/or offline) during the conduction of the program. Also feedback from the participants is taken for improving the quality of the conducted programs.

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## **Evaluation**

A test is conducted after the completion of the program to evaluate the quality of the program. Also a review of the course conducted is taken through feedback provided by the participants.

Based on the results of both test and review of participants the quality of the program is evaluated and certificates are issued to the participants.

### **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 the Shivaji University, Kolhapur. The university arranges workshop of syllabus revision, prior to the formation of curricular structure.

From the summary of workshop the concerned programs Board of Studies (BOS) forms the structure of revised syllabus to be formed.

The institute faculty members always contribute in the curriculum revision workshops. The institute also organizes the workshops and seminars on curriculum revision. The suggestions on syllabus revision are taken from the departmental Academic Board are forwarded to the BOS chairman in the Shivaji University.

Most of the faculty members are acting as evaluators for evaluating the university answers books, thereby contributing to the University for smooth conduction of the examination.

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

- The institute obtains feedback from the students, alumni, parents, employers/ industries and experts from academia regarding the curriculum.
- The department academic board then reviews the suggestions from various stakeholders and put forth a necessary action plan for implementation of the acceptable suggestions.
- The suggestions are also forwarded to the BOS for consideration in the syllabus revision.

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

Sr. No	Name of the Programme	Introduced Academic Year	Intake
1	Civil Engineering UG Direct 2 <sup>nd</sup> year ( 1 <sup>st</sup> shift)	2012	60
2	Civil Engineering UG 2 <sup>nd</sup> Shift	2011	60
3	Civil Engineering PG (Construction Management)	2011	18
4	Computer Science and Engineering UG Direct 2 <sup>nd</sup> year (2 <sup>nd</sup> shift)	2012	60
5	Mechanical Engineering UG Direct 2 <sup>nd</sup> year (2 <sup>nd</sup> shift)	2011	60

**Rationales:**

**Civil Engineering:**

Infrastructure development has increased quantitatively and qualitatively in last few years. There has been demand supply deficit in the field leading to lack of qualified civil engineering professionals. In accordance with changing needs and increased demand towards civil engineering of the studies, these programs introduced to provide quality education and facilitate research and development. In this scenario, introduction of new courses at P.G. level i.e. construction and management specialisation and additional intake at U.G. level have become inevitable.

**Computer Science and Engineering:**

In order to cope up with socio-economic growth of the country there is increasing demand of technical experts in IT industry. Therefore, institute has increased intake of Direct Second Year Engineering (Second Shift) in year 2012. This results into infinite opportunities for the diploma graduates to be a part of main stream of Computer Science and Engineering as a Computer Engineering graduate. Because of the technological evolution in every field, automation becomes unavoidable part of industries. To fulfill these requirements need of Computer Engineers goes on increasing. Hence to meet these requirements as a skilled manpower provider, we have increased our intake capacity of Direct Second Year by 60 in year 2012.

**Mechanical Engineering:**

There are many Polytechnic institutes that offer Diploma in either

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Mechanical or Automobile Engineering. Many of these students prefer for Graduation in Mechanical Engineering. To cater this need in their vicinity to complete the Degree in Mechanical Engineering with minimum expenditures, UG Direct 2<sup>nd</sup> year (2<sup>nd</sup> shift) was introduced in the academic year 2011-12.

Looking at the admission status of this course since its launch, it is quite clear that its purpose is served. Merit of admitted students is higher as compared to the other institutes in the vicinity and they have excelled not only in their academics but placements.



## **Criterion II**

# **Teaching - Learning and Evaluation**

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## **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?**

##### **Publicity**

- Directorate of Technical Education (DTE) as governing authority announces admission process by publishing notification in different newspapers and their website.
- College participates in educational fairs organized by different agencies to provide necessary information regarding programmes, changes in admission process, government scholarships and documents required for such admissions.
- For institute level quota, institute publishes advertisement in the local news paper, website and invites the applications. Merit list is to be prepared as per the marks secured in HSC examination. The admissions are given to the eligible candidates according to merit list.
- Advertisements are given on local cable network, FM radio channels. Road side hoardings are also displayed in nearby cities.

##### **Transparency**

- Directorate of Technical Education (DTE), Government of Maharashtra works as a governing authority of Centralized Admission Process (CAP).
- The notification regarding admission process and important dates of various stages of admission are announced by DTE and published on their website as well as in leading newspapers.
- All the on-line admission process is handled by DTE, including preparation of the merit list, document verification as well as allotment of seats.
- 80% seats are admitted through CAP and 20% through institute level quota.

#### **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.**

- For first year engineering admissions, institute participates in Centralized Admission Process undertaken by DTE, Maharashtra.

- The eligibility criteria for the admissions are as follows,

Sr. No.	Year	% Admission	Process Details
1	First Year UG Admission	65	Students are admitted on merit of composite score* of JEE exam percentile and HSC board marks
		15	Students are admitted through All India Engineering Entrance Examination (JEE Main)
		20	Students are admitted through institute level admission process.
2	Second Year UG Admission (Lateral Entry)	20	Students are admitted through Centralized Admission Process (CAP) conducted by DTE on the basis of the merit of final year Diploma percentage.
3	Direct SE Admissions	100	Students are admitted through Centralized Admission Process (CAP) conducted by DTE on the basis of the merit of final year Diploma percentage.
4	M.E. First Year	80	Students are admitted through Centralized Admission Process (CAP) conducted by DTE. The admission is based on the valid score in the National Level Graduate Aptitude Test for Engineering (GATE).
		20	Students are admitted through institute level admission process.

\* For first year UG admissions, composite score is calculated as follows,

- 50 % weightage shall be given to the percentile of marks obtained in JEE (Main) 2015–Paper-1 and 50 % weightage shall be given to the percentile of marks obtained in the subjects Physics, Chemistry and Mathematics in the Board examinations which are added together.

$$\text{Composite Score} = 0.5 * \text{JEE Percentile (Po)} + 0.5 * \text{Board Marks (P)}$$

- Centralized merit list is prepared as per the Composite Score.

### 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 minimum and maximum marks of admitted students are given below,

Sr. No.	Programme	Year of Admission	Minimum marks of admitted students			Maximum marks of admitted students		
			TKIET	DYPK	BVCOE	TKIET	DYPK	BVCOE
1	Mechanical	2011-12	101	73	49	124	125	123
	Civil		85	58	24	97	97	79
	Chemical		79	29	--	98	98	--
	Comp. Sc.		77	65	47	112	101	92
	Electronics		81	51	25	127	100	90
2	Mechanical	2012-13	60	72	45	130	122	113
	Civil		75	41	9	105	99	89
	Chemical		66	39	-	102	106	-
	Comp. Sc.		42	66	5	92	101	97
	Electronics		44	57	18	105	98	90
3	Mechanical	2013-14	93	47	41	131	117	109
	Civil		63	59	36	111	127	78
	Chemical		51	07	-	137	92	-
	Comp. Sc.		46	45	39	94	103	81
	Electronics		57	44	22	95	78	86
4	Mechanical	2014-15	68.59	32.41	29.27	78.89	94.11	67.29
	Civil		61.59	20.92	43.37	67.37	71.41	61.60
	Chemical		51.48	21.27	-	67.11	68.56	-
	Comp. Sc.		35.99	12.03	41.58	55.35	60.30	60.88
	Electronics		26.22	19.11	-	39.74	73.33	-

**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?**

**YES**, there is a mechanism in the institution to review the admission process and student profiles annually.

- At institute level, Admission Committee is working devotedly to implement the strategies in admission process.
- The structure of the Admission Committee is,

Sr. No.	Name	Designation
1	Dr.S.V.Anekar	Principal
2	Prof.B.V.Birajdar	Admission In-charge
3	Prof.T.S.Jangam	PG Admission In-charge
4	Mr.D.S.Thombare	Member
5	Prof.A.G.Patil	Member
6	Prof.K.I. Patil	Member
7	Prof.A.S.Mali	Member
8	Mr.J.S.Jadhav	Member

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- Meetings are conducted to take the review of admission process time to time.
  - During the admission process committee analyzes the candidates' profile by considering state merit rank, PCM total and MHCET/JEE marks.
  - Information collected from the students are also used to analyze their,
    - ◆ Educational background (State Board, CBSE / ICSE)
    - ◆ Economic background
    - ◆ Rural/ Urban
    - ◆ Gender representation
    - ◆ Number of admission in reserve category

**Outcomes:**

- Analysis help to understand the admission trends, market needs.
- Awareness is created among the students and parents about the engineering branches and admissions.
- Admissions of reserve category students are increased.

**Contribution to the improvement of the process:**

- Additional counseling is provided to the category students.
- Seminars are conducted for 12<sup>th</sup> science students to create awareness
- To attract the local students, advertisements are published in local newspapers, on local cable network, road side hoardings.

**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**

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**SC/ST/ OBC Students:-**

For SC/ST/OBC students in nearby districts, there are special schools for the 11th & 12th Science of these categories. Admission cell organizes special seminar to these students to highlight to tell them about schemes and scholarships, if they take engineering admissions, also after engineering graduation how they can take the advantages to get the government jobs and higher education.

**Women:-**

As per the provisions in Govt. Resolution No. GEC-1000/ (123/2000)/ Tech. Edu.-I, dated 17th April, 2000, 30% seats available for Maharashtra State CAP, are reserved for female candidates.

**Differently abled:-**

As per the provisions in Clause 39 of equal opportunities, protection of rights and Full Participation Act 1995, 3% seats of total sanctioned intake capacity of all the institutions coming under CAP, are reserved for candidates with disability.

**Economically weaker sections:-**

For economically weaker students, 5% seats are reserved under Tuition Fee Waiver Scheme (TFWS) for each course.

Students of Economically Backward Class (EBC) are also getting the fees concession as per the rules of government of Maharashtra.

**Minority community:-**

Students belonging to minority communities like Muslim/ Christian / Buddhist / Sikh / Parsi / Jain avail the 'State Government Scholarship for Post HSC Higher and Professional Education' of Government of Maharashtra.

The percentage of seats reserved for candidates of backward class categories belonging to Maharashtra State is as per the details in table given below,

Sr. No.	Category of Reservation	Percentage of Reservation
1	Scheduled Castes and New Buddhist (SC)	13.0 %
2	Schedule Tribes (ST)	7.0%
3	Vimukta Jati (VJ) /Denotified Tribes (DT) (NT-A)	3.0%
4	Nomadic Tribes 1 (NT-B)	2.5%
5	Nomadic Tribes 2 (NT-C)	3.5%
6	Nomadic Tribes 3 (NT-D)	2.0%
7	Other Backward Classes (OBC)	19%

1. Candidates belonging to Special Backward Class (SBC) will be offered reservation up to 2% of the seats available for Maharashtra candidates. These are coming under the per view of the Competent Authority subject to condition that any seats remain vacant in the reserved category at the end of stage-II of allotment.
2. Five (5) % seats of the total sanctioned intake for an institute, subject to a maximum of five (5) seats in each institute are reserved for Children of ex- service personnel who are domiciled in Maharashtra State (DEF-1).  
Children of active service personnel who are domiciled in Maharashtra State (DEF-2) and Children of active service personnel (DEF-3)
3. One seat over and above the sanctioned intake capacity, in each institute is available for the migrants of Jammu and Kashmir
4. In the CAP, admissions are allotted as per the reservation; hence students from the entire category find a place in the admissions without even a single case refused.

**Any Other:-**

- The institute is offering Late Dr. C. R. Rao memorial scholarship to one bright student belongs to economically weaker section.

**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**

Programme Level	Name of the Programme/ Course	Started Academic Year	Sanctioned Intake	Increase In Intake	Comment
UG First Shift	Chemical Engg.	1983	60	30 (1992)	
	Civil Engg.	1983	60	60 (2011) Direct SE 60 (2011)	The rapid growth of infrastructure development created opportunities for Civil Engineers
	Electronics Engg.	1983	60	60 (2011)	
	Mechanical Engg.	1996	60	30 (2006) 30 (2010) Direct SE 60 (2011)	The economical changes in industrial arena accelerated employments in the Mechanical Engineering.

	Computer Sci. & Engg.	1999	40	20 (2001) 60 (2007) Direct SE 60 (2011)	Good jobs in the field of computer and IT sectors attracted graduates for CSE stream of engineering
PG	Chemical Engg.	1998	18	----	----
	Electronics Engg.	2010	18	----	----
	Mechanical -Design Engg.	2010	18	----	----
	Civil – Construction Management	2011	18	----	----

#### Admission Chart UG

Sr. No.	Year of Admission	Programme	Intake Capacity	No. of Students Admitted
1	2011-12	Mechanical	120	121
		Civil	120	80
		Chemical	60	63
		Comp. Sc.	120	117
		Electronics	120	66
2	2012-13	Mechanical	120	126
		Civil	120	116
		Chemical	60	61
		Comp. Sc.	120	121
		Electronics	120	88
3	2013-14	Mechanical	120	122
		Civil	120	116
		Chemical	60	57
		Comp. Sc.	120	48
		Electronics	120	49
4	2014-15	Mechanical	120	127
		Civil	120	119
		Chemical	60	53
		Comp. Sc.	120	71
		Electronics	60	30



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### Admissions Chart PG

Sr. No.	Year of Admission	Programme	Intake Capacity	No. of Students Admitted
1	2011-12	Mechanical	18	18
		Civil	18	14
		Chemical	18	08
		Electronics	18	18
2	2012-13	Mechanical	18	18
		Civil	18	18
		Chemical	18	12
		Electronics	18	18
3	2013-14	Mechanical	18	18
		Civil	18	18
		Chemical	18	16
		Electronics	18	18
4	2014-15	Mechanical	18	18
		Civil	18	18
		Chemical	18	08
		Electronics	18	18

5. Since the admission is done by DTE, Government of Maharashtra, number of applications and demand ratio are not available.

## 2.2 Catering to Students 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?

- A barrier-free environment is provided in the campus for their mobility.
- Since the establishment of college, there is no admission under differently abled category, even though facilities are made available by the institute for such students.
- Lecture rooms, tutorial rooms and practical arrangements are made on the ground floor for differently-abled students.
- Ramp ways at appropriate places, facilities in toilets are made available for such students for easy movement.
- Separate rooms in hostels are provided for such students. Rooms are made available on case by case basis.
- Teaching and non teaching staff members are sensitized to take care of differently-abled students.

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- Preferential treatments are given in the central library.
  - Special arrangements are made at the time of examination.
  - A trust owns two hospitals within 3 km from college campus.

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

YES.

- An orientation program is conducted for all the first year students in order to assess their needs with respect to soft skills, rural background problems and queries about basic knowledge.
- Before the commencement of first year, online Moodle test for the students is conducted to check their proficiency in english and basic sciences.
- Students are also categorized according to area (Urban / Rural) to bridge the gap of communication.
- At the beginning of the semester pre-analysis survey report, about the enrolled students is made available for each faculty.
- Bridge course is conducted at the beginning of the semester.
- Expert creates general awareness on different subjects and its market potentiality.
- More emphasize is given on importance of ethics, attendance, discipline and punctuality.

**2.2.3 What are the strategies drawn and deployed by the institution to bridge the knowledge gap of the enrolled students to enable them to cope with the programme of their choice?**

**(Bridge / Remedial / Add-on / Enrichment Courses etc.)**

- Bridge course (Regular)- Before commencement of the syllabus of first year, fundamentals of Mathematics, Physics, Chemistry and English are refreshed.
- Bridge Course (Lateral Entry) – The lateral entry students are found very weak in Engineering Mathematics due to their Diploma background. To improve the mathematics skills which are required to cope up the subjects, additional lectures are arranged.
- Experts from the academics and industries are invited for delivering lectures to bridge the gap.

Sr. No.	Class and Program	Course in which gap is found	Nature of gap	Action Taken
1	F. E. (All)	Engineering Chemistry	1) Study of Periodic table 2) Electrochemistry - Nernst equation.	Extra lectures are planned and included in lesson plan
2	F. E. (All)	Professional Skills	1) Basic Grammar 2) Composition 3) LSRW skills development	Module of lectures and practicals has been designed and added in teaching plan
3	F. E. (All)	Engineering Maths – I	1) Basic Formulae of Differentiation and integration 2) Basic Matrix Theory 3) Preliminaries.	Some lectures and tutorials are conducted to fill the gap
4	F. E. (All)	Engineering Physics	1) Fundamentals regarding light 2) Fundamentals regarding atom structure and nuclear energy 3) Relation between quantum mechanics and classical mechanics	The contents are included in lesson plan and assignments are provided on mentioned topics
5	S.E (All)	Engineering Mathematics III	1) Standard elementary function, Derivative, integration, Trigonometry 2) Physical Sciences and Engineering problems are expressed in terms of mathematical expression and their solutions interpreted	Extra Lectures and Tutorials are planned to enhance their mathematical skills

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

- Institute provides equal opportunity for all students to participate in various activities and processes which include co–

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curricular and extracurricular activities, sports, deputation to the courses, higher studies, committees and placements etc. without any discrimination (gender, caste, religion, etc.)

- Each department has Student Association where girls and boys work together and organize various activities and events.
- Institute has formed Ladies Complaint Prevention Committee (Internal Complaints Committee, formerly the VISHAKHA Samiti) that functions separately for the benefits of the ladies employees and girl students.
- Before the commencement the academic year, annual events calendar for girl students are planned. The institute celebrates Womens' Day and also organizes seminars regularly on women empowerment.
- Institute has Anti-Ragging Committee. At the time of admission undertaking form is taken from each student about prevention of ragging.
- Proper discipline is maintained by assigning Dress code to students and staff.
- Health care awareness lectures are organized to motivate students and staff for healthy lifestyle.
- Transportation facility is provided for outside students as well as for outside events.
- Medical check-up camps are arranged.
- OPD (Open Patient Department) is given in Hostel.
- Institute organizes events like, get-together, Navratri festival, Knowledge Enhancement Lecture Series, annual social function to promote harmony and inclusion.
- The institute celebrates Teachers' and Engineers' Day where students and faculty interact with each other.
- The students also involve in social service activities like clean and green programme, plantation, health checkup camps, and computer literacy programme for village students, blood donation camps, etc.
- On the whole, the college staff and students are sensitized on issues such as human rights, gender inclusion, environment etc. through seminars, meetings, conferences and expert lectures.

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- The NSS unit of the college organizes clean and green programs in nearby villages to instill awareness among the general public and also seeks their assistance in tree plantation.

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

- Students are encouraged to participate in national/international symposiums, workshops and seminars to gain the knowledge of advanced topics.
- Special classes are conducted by Career Development Cell (CDC) to help them to succeed in national/ international level entrance examinations like GATE, CAT and GRE, CEMAT etc.
- Internet and other laboratory facilities are provided to self-learners beyond the working hours.
- Such students are encouraged and guided to make research contributions to major projects at UG and PG level and also to publish their papers as well as patents.
- Arrangements are made to enable such students to undergo training during the summer / winter vacations in various industries.
- The faculty take special efforts for sharpening the talents of such advance learners.
- Advanced learners from PG classes are motivated by providing opportunities to take classes at UG level.
- Such students are encouraged to take part in Inter-college technical festivals often organized by the institute.
- University rank holders are honored during Annual Social Function with the merit certificates and prizes.

#### **2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc.)?**

Data about students at risk of drop out are collected from following records,

1. Daily attendance.

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2. Performance in all internal tests.
  3. Observing their class room participation.
  4. Student profile and entry level score analysis.
  5. Involvement in co-curricular activities.
  6. Feedbacks from external trainers.

The collected data are discussed at the department level staff meetings and the following measures are initiated to prevent drop out:

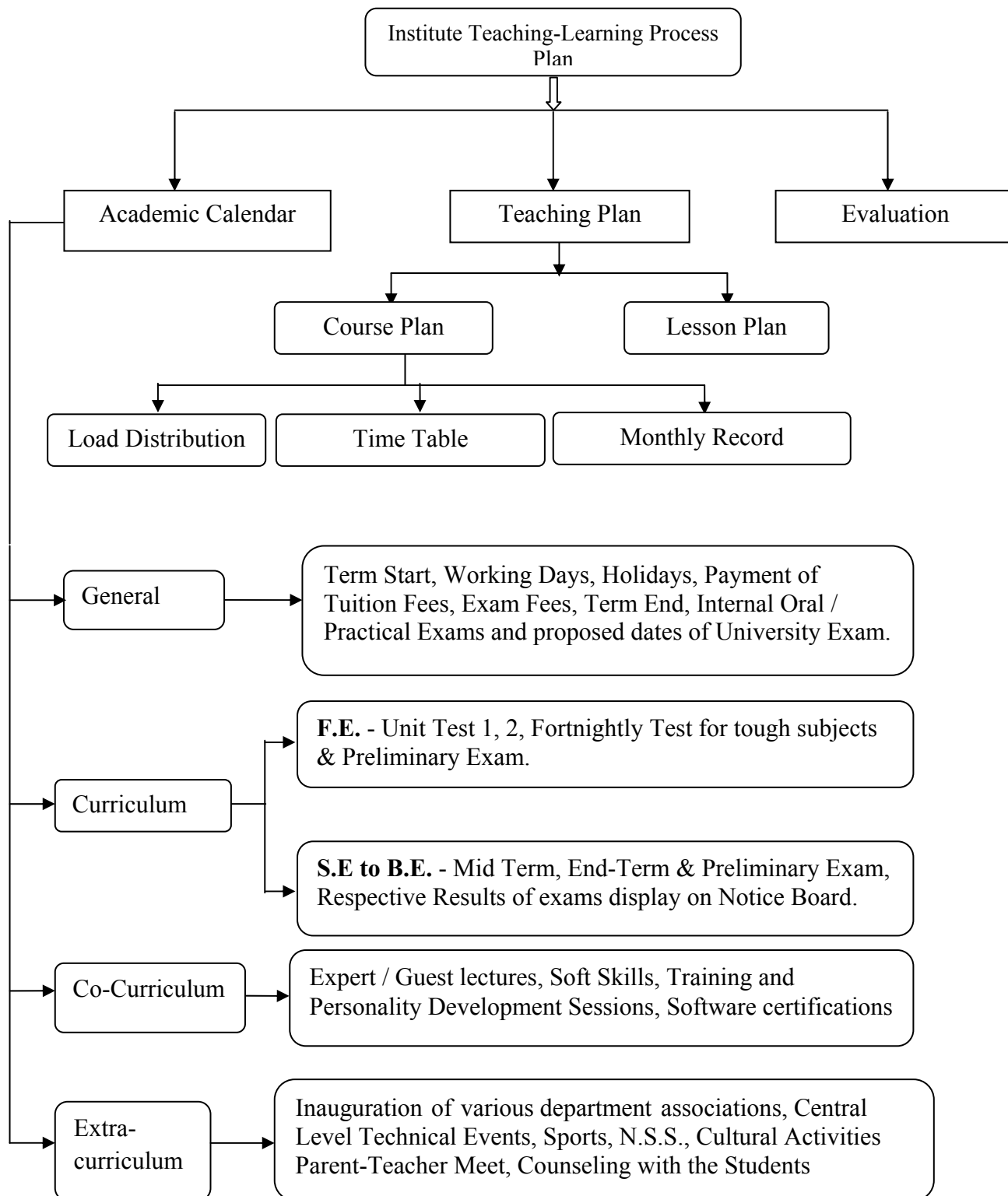
- After collection of the data about such students, they are analyzed and the students who are supposed to drop out are identified. They are counseled through faculty guardian to resolve such issues of drop out.
- When necessary, extra classes are conducted for them and financial support is also offered to them if they are in a financial crisis.
- The concerned guardians interact with their parents and try to convince them to give proper support (moral and financial) to their wards.
- Various scholarships are provided for economically weaker students from the Government, institute and department such as EBC, Late Dr.C.R.Rao scholarship by the college, Warana Sahakari Sugar Factory Scholarship etc.

## **2.3 Teaching- Learning Process**

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

For each academic year the institute prepares teaching learning process plan for effective and quality implementation of academic process. It consists of an academic calendar, teaching plan and evaluation scheme plan. All activities are finalized by the head of the institute. The detailed flow is shown as below,

**Academic calendar:** Before the commencement of the academic year, the faculty of different departments discusses and prepares the academic calendar which is finalized after the approval of the Principal.



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The academic calendar is distributed to the students immediately after the commencement of the academic year. It gives details of attendance of Theory / Practical session necessities, library facilities with its rules and regulations, Internet /Wi-Fi facilities, rules and regulations for the student in the campus and hostel. These details enable planning and execution of various events throughout the year.

**Course Plan:**

At the beginning of every semester, the Head of the Department conducts a meeting with subject mentors to discuss the verification of course plan. Subject mentor evaluates the detailed course plan of the faculty. Course Plan includes; academic calendar, time table, syllabus, hand written notes, e-learning material, experimental write up, assignment questions, previous year mid-term, end-term, preliminary exam question papers as well as university question papers with model answer.

**Lesson Plan:**

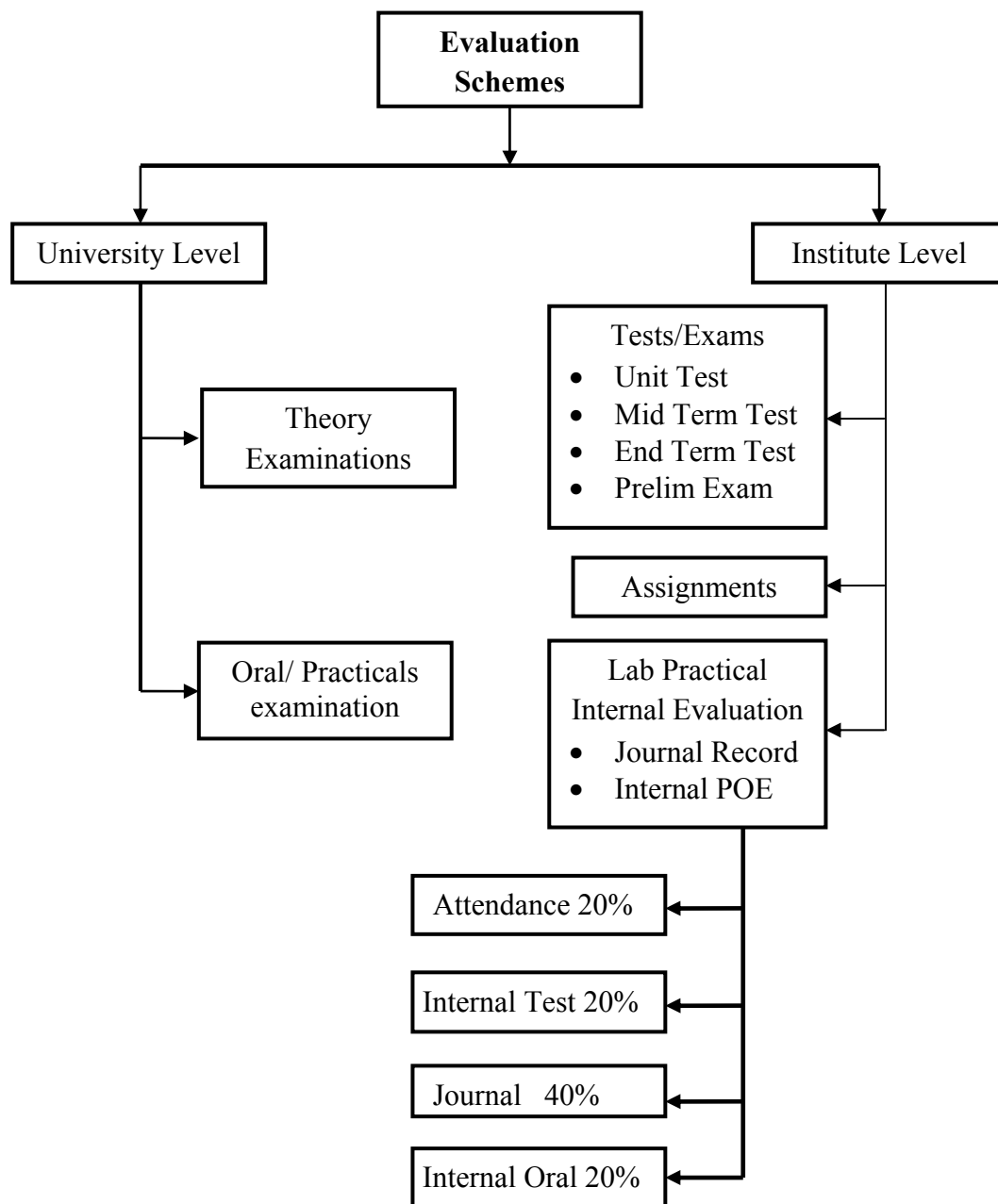
The concerned faculty for each subject prepare a detailed lesson plan. It gives the units of the syllabus, lecture wise content of units, practical details with proposed date of completion of the unit, actual date of completion, deviation if any and the reason for the same.

**Evaluation Scheme Plan:**

The evaluation is based on curriculum. The evaluation structure contains continuous internal assessment and university external practical/oral examination, term end theory examination.

- Institute conducts two Unit Tests, Preliminary Exam in a term. Performance of the students are shown to students and parents. Teacher mentor counsels the students about their academic performance.
- The practicals / orals are also conducted and performance of student is evaluated which is informed to all concerned.
- At the conclusion of the term, university conducts examination and evaluates the performance of the students.
- Result analysis done by the institute and remedial classes conducted for the failure students.





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

- The institute has two times accredited by National Board of Accreditation, New Delhi.
- However, the institute has the following mechanisms to ensure the quality of the education

- The institute has constituted Internal Quality Assurance Cell (IQAC) which plays pivotal role to enhance the teaching-learning process.

#### **Members of IQAC**

<b>Sr. No.</b>	<b>Name</b>	<b>Representation as</b>	<b>Designation &amp; Organization</b>
1	Dr. Anekar S. V.	Chairperson (Head of the Institution)	Principal, TKIET, Warananagar
2	Dr. Hirdekar B. M.	Member (Educationist)	Registrar, D Y Patil University, Navi Mumbai
3	Shri. Kulkarni Madan	Member (Industry Rep.)	CMD, Kalakruti Industries Kolhapur
4	Mr. Kumbhojkar V. A.	Member (Management Rep.)	Member Governing Council, SWVS Mandal
5	Dr. Chougule U. S.	Member (Parent)	Administrative Officer, TKCP Warananagar
6	Mr. Thombare D. S.	Member (Administrative officer)	Registrar, TKIET Warananagar
7	Prof. Birajdar B V	Member (Administrative Officer)	Dean Administration & HOD, Civil Engg.
8	Prof. Patil S. T.	Member (Administrative Officer)	Training & Placement Officer
9	Prof. Desai S. A.	Member (Administrative officer)	Head, Dept. of Chemical Engg.
10	Dr.(Mrs) Patil V. D.	Member (Teacher)	Asst Professor, Applied Science Dept.
11	Prof. Patil G. V.	Member (Teacher)	Asst Professor, CSE Dept.
12	Dr. Desai S. S.	Member (Teacher)	Asst Professor, Applied Science Dept.
13	Prof(Smt) Chougule B. A.	Member (Teacher)	Asst Professor, CSE Dept.
14	Shri Lad A. T.	Member (Administrative officer)	Librarian, TKIET Warananagar
15	Shri Jadhav N.B.	Member (Administrative officer)	Head, System and Network Support.

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16	Shri. Sangram Ghorpade	Member (Alumni Rep.)	Manager, Technomont Mumbai.
17	Miss. Diwan Tejashri	Member (Student-Rep.)	B.E. (Computer Sci. Engg.)
18	Prof. Gambhire V. R.	Co-ordinator	Professor, Dept. of Mechanical Engineering

### **Institute Quality Objective**

- i) Commitment to deliver outcome based quality education
- ii) Produce self-reliant all round engineers.

### **Motive of IQAC**

- a) It aids to improvise academic and administrative performance of the institution.
- b) It ensures stakeholders (students, parents, faculty, alumni, industry experts, funding agencies, society) of the institution for its own quality and probity
- Quality assurance policies are meticulously drafted and uniformly practiced throughout the institute.
- Academic Audit and Feedback committees are jointly working under the umbrella of IQAC
- The institute has framed three separate committees such as NBA Committee, NAAC Committee and CII Committee. These committees undertake submissions of various issues associated with accreditations. These committees also keep the track of accreditation status of various programmes and makes arrangement for the application to accreditation bureaus.

### **Contribution of IQAC in improving teaching-learning process is,**

- Ensuring timely, efficient and progressive performance of academic activities according to the calendar.
- Ensuring relevance and quality of academic and research programmes.
- Equitable accessibility to and affordability of academic programmes for various sections of society.
- Optimization and integration of modern methods of teaching learning
- The credibility of evaluation procedures.
- Ensuring the adequacy, maintenance and functioning of the support structures and services

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- Collaborative networking, Research and Development with other institutions in India and abroad.
  - IQAC takes review at regular intervals and submit the report with tangible results.
  - Based on above results, plan of action is devised and executed in order to ensure quality.

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

- Students are integral ingredient in the Outcome Based Education (OBE). To formulate student-centric learning, following methodology is practiced in the institute.
- **Interactive Learning**
  - a) Delivering lectures/practical in interactive discussion, making students to participate during practicals and theory by asking questions.
  - b) Students are involved in preparing the case study reports and presenting in class rooms.
  - c) Utilize Learning Management System (LMS) as Moodle.
  - d) Batch-wise tutorials are arranged by faculty which make faculty to communicate and to know the understanding level of the students.
- **Collaborative Learning**
  - a) The importance of collaborative learning is quoted as “Learning by doing”, which develops team-work spirit, lifelong learning attitudes and professional skills.
  - b) Industry sponsored projects are carried out at the final year Engineering.
  - c) Interdepartmental projects are also carried out to resolve the social problems.
  - d) Assignment of Mini-Projects / Final Year Projects to group of 3-4 students aids to inculcate the practice of team work task.
  - e) Motivate the students to fabricate prototype models and to developing software based applications.
  - f) Encouragement for participation in various curricular, extra-curricular activities like project competition, poster presentation, programming competition, seminars and sports, etc. at intra and inter institute level.

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- g) Arrangement of industrial visits, in-plant training to widen students' learning from theoretical aspect to practical applications.
  - h) Active learning is outcome of collaborative learning. It is achieved by allocating initial 5-7 minutes of the lecture to revise the contents covered in the previous lecture by probing couple of questions to check the understanding level of students and bridge the link between previous lectures.
  - i) By quiz questions during lectures based on pre-knowledge and provoking students to think critically.

- **Independent Learning**

- Institute has enriched central library with internationally acclaimed and recommended books, journals, periodicals. Institute has independent segment of Digital Library as well.
- Every department has well stocked departmental library to avail reference books and digital resources to the students.
- Access to NPTEL/ MIT OCW / Course videos: Almost 12 TB NPTEL videos are available for different engineering programmes in the digital library.
- Effective usage of Virtual Lab portal: Institute has Nodal Center for Virtual Lab approved by NME-ICT, (MHRD, Govt.of India) initiative in collaboration with IIT Bombay.
- Individual seminars are conducted for the students to assess their performance. This activity enhances his/her technical communication skills and helps to overcome stage fear.
- Additional library and laboratory hours are provided for the students.

#### **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?**

- To augment their critical thinking, institute make them participate in Group Discussion, Debates, Quiz Competitions, Poster Presentation Competitions, and Seminars which help them to think and explore new ideas.
- Institute organizes intra-institute and inter-institute events like Jidnyasa, Eureka, Industry Problem Solver, Techno Premier League, etc. which stimulate critical thinking, creativity and scientific temper in the students.

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- As a part of their teaching, the challenges associated with a particular topic of study will be normally explained to the students to make them to think towards the solution for the particular problem. Projects based on real time applications are assigned to the students during their third year of study as mini projects which pave a way for them to cultivate critical thinking and creativity.
  - During laboratory practicals, students are also provided with facilities to carry out certain experiments beyond the curriculum and make their own observations so that they imbibe a scientific temper.
  - Students are given innovative projects to inculcate the creativity and critical thinking ability in them through final year projects.
  - Industry sponsored projects as well as at university level project competition “Avishkar” is conducted by Shivaji University, Kolhapur to provide platform for such projects.
  - To encourage the writing scientific and technical articles for the college magazine “Horizon”.
  - The institute has taken various e-learning initiatives to promote the life-long learning among the students.
  - The departments are having various student associations, student chapters of technical societies through which students organize various events like competitions, workshops, seminars to exhibit their organizing and leadership skills.
  - Through student chapters of professional bodies like CSI, IEEE, ISTE, ISTE various opportunities of competitions are readily made available to students.
  - Institute invites eminent academicians, entrepreneurs, industry experts and alumni to have a talk with students.

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

**Remote Center for IIT Bombay under NMEICT**

- The institute is a remote centre for IIT Bombay under the National Mission on Education through Information and Communication Technology (NMEICT), funded by Ministry of Human Resource and Development (MHRD), Government of India. Under this programme, IIT Bombay conducts two-week ISTE workshops in the vacation period during summer and winter. Live lectures are given

by IIT faculty. The live lecture and interaction take place through distance mode using the A-VIEW technology and the Internet, at selected remote centers across the country. As on this date, institute has successfully organized and conducted 22 STTPs under NMEICT programme.

**Workshops conducted in the Institute under NMEICT**

<b>Sr. No.</b>	<b>Name of the Program</b>	<b>Sponsoring Agency/self sponsored</b>	<b>Year</b>
1	Two-Week ISTE STTP on Introduction to Design of Algorithms	NMEICT, IIT-Kharagpur	2014-15
2	Two-Week ISTE STTP on Technical Communication	NMEICT, IIT-Bombay	2014-15
3	Two-Week ISTE STTP on Environmental Studies	NMEICT, IIT-Bombay	2014-15
4	Two -Week ISTE STTP on Pedagogy for Effective use of ICT in Engineering Education	NMEICT, IIT-Bombay	2014-15
5	Two-Week ISTE Workshop on Cyber Security	NMEICT, IIT-Bombay	2014-15
6	Two-Week Workshop on Control Systems	NMEICT, IIT-Kharagpur	2014-15
7	Two-Week Workshop on Fluid Mechanics	NMEICT, IIT-Kharagpur	2013-14
8	Workshop on NPTEL by Mr Nizar Ahmed	NMEICT, IIT-Madras,	2013-14
9	Faculty development program by Mr. Anand Patil	Self Sponsored	2013-14
10	Workshop on OS Booting by Mr Yogesh Babar, Redhat Systems Pvt. Ltd, Pune	Self Sponsored	2013-14
11	Two-Week Workshop on Signals & Systems	NMEICT, IIT-Kharagpur	2013-14
12	Two-Week ISTE Workshop on Computer Networking	NMEICT, IIT-Bombay	2013-14
13	Two-Week ISTE Workshop on Computer Programming	NMEICT, IIT-Bombay	2013-14

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14	ISTE Workshop on Green Building Awareness	NMEICT, IIT-Bombay	2013-14
15	Two-Week ISTE Workshop on Engineering Mechanics	NMEICT, IIT-Bombay	2013-14
16	Two-Week Main Workshop on Analog Electronics	NMEICT, IIT-Kharagpur	2013-14
17	Two-Week ISTE Workshop on Database Management Systems	NMEICT, IIT-Bombay	2012-13
18	Aakash Android Application Programming Workshop for Students	NMEICT, IIT-Bombay	2012-13
19	2-Days ISTE Workshop On Research Methods In Educational Technology	NMEICT, IIT-Bombay	2012-13
20	Two-Week ISTE Workshop on Engineering Thermodynamics	NMEICT, IIT-Bombay	2012-13
21	2 -Days ISTE Workshop on Aakash for Education	NMEICT, IIT-Bombay	2012-13
22	Introduction to Research Methodologies	NMEICT, IIT-Bombay	2011-12

### Virtual Laboratory

- An e-learning platform like VLAB has been set up in all departments for the thorough comprehension of practicals through visualizations, animations and simulations.
- VLAB is an experimental set up for student available on Internet to understand the concepts of different practicals.
- VLAB contains pool of Internet accessible experiments with wider range of laboratory resources.

### Licensed Software

The institute owns legalized licensed software required for all courses of engineering and institute regularizes this software in timely basis. The available software are listed below,

Softwares / Tools		
1	Visual Studio ProWMSDNPro ALNG LicSAPk OLP NL Acdmc Qlfd	2
2	Visual Studio Pro 2008 SNGL OLP NL Acdmc	80
3	VisioPro 2007 SNGL OLP NL Acdmc	1



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4	OfficeProPlus 2007 SNGL OLP NL Acdmc	75
5	Microsoft Academic SQL Svr Standard Edtn 2008 Sngl OLP NL	3
6	MS SQL CAL 2008 SNGL OLP NL Acdmc DvcCAL	70
7	Adobe CS4 Web Premium AE Full Pack with media	1
8	Adobe CS4 Web Std AE Full Pack with media	1
9	Oracle 11 G Std edition ONE with media	10
10	Oracle 12C G Std edition ONE	10
11	.Net Developer	1
12	ASPEN PLUS	10
13	CFD Tutor	10
14	UniSim	100
15	CATIA V 5 R15	5
16	Solidworks	30
17	ANSYS 12.0	5
18	Witness	10
19	IDEAS Artisan	2
20	Ideas Master	4
21	AutoCAD 2002	4
22	ANSYS 5.5	1
23	AutoCAD Inventor	10
24	Borland C & C++	37
25	Nasa V20	1
26	Promax	50
27	Simulator WSIM85	6
28	SPJ simulator	8
29	SPJ's C Compiler	5
30	MATLAB 7.1 Software	1
31	OrCAD 9.1 Software	10
32	Circuit Maker Software	1
33	Turbo C++	5
34	ANSYS 14.5	15
35	MATLAB 2010 B 7.11	10

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36	MATLAB Basic 20100 B (7.11)	10
37	MATLAB Tool Box	12
38	STAAD.Pro 2001	12
39	STAAD.Pro 2005	24
40	SAP 2000 V14	10
41	ETABS 9	10
42	MS Project 2007	5
43	Ensoft Build master/Road Master/Steel Master/Rate analysis	10
44	AutoCAD 2004	20
45	OrCAD	5
46	MATLAB 5.3	1
47	SPJ System	1
48	Xilinx 6.2i	1
49	Multisim 10.1	6
50	Symantec Endpoint Protection 12.1 Suite	451
51	Quick Heal Endpoint 6.2	400
<b>Total</b>		<b>1572</b>

#### **NPTEL e-learning video resources**

- Institute has 12 TB of voluminous data of NPTEL video lectures.
- NPTEL video resources are readily available to the faculty and students.
- NPTEL video course include 946 topics of 23 different subjects

#### **Open Educational Resources**

- Webinars and spoken tutorials are organized and conducted by international standard bodies like IEEE, ACM, IUCEE and industries like Infosys, TCS as well.

#### **Usage of FOSS (Free and Open Source Software) technologies**

Faculty are utilizing FOSS technologies while tutoring students like PHP, MySQL, Scilab, FreeCAD, etc.

#### **Web based Learning Management System (LMS) and FTP**

- Institute has installed and configured centralized Moodle server.
- All faculty and students are registered members of Moodle.

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- Faculty create course in Moodle account and upload the course content of their respective subject.
  - Faculty provides course content in form of online tutorial, notes, quizzes, mock-tests, assignment and live lectures as well.
  - With Moodle ‘Learning becomes fun’
  - Institute has set up File Transfer Protocol (FTP) server that enables faculty to upload their study material. The student and faculty are given an independent space of 2 GB each for maintaining their sensitive data in a private and secure manner. This data is available again even in case of network failure through the intranet.

#### **Internet Connectivity**

- Seamless Internet connectivity is available in all departments with LAN.
- Wi-Fi enabled campus

#### **Massive Open Online Course (MOOC)**

- E-learning web portals like MOOC and Coursera are accessible through institute network.
- Live and online lectures by distinguished professors / researchers / academicians are utilized by faculty and students for better comprehension of the course.

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

Teaching-learning is continuous process; if the process is tuned with recent technological trends then it aids both the faculty and students to sharpen their skills. Institute initiates efforts to expose faculty and students to the advanced level of knowledge and skills.

#### **Blended Learning**

- With the advent of ICT facilities, NPTEL video lecture series, VLABS, LMSs, FOSS technologies are available for teaching-learning process. Faculty has started exploring the use of technology in the tutoring, which has resulted in implementing the blended learning process for the students. Computer assisted learning and digital course materials are readily available to the students to supplement the classroom teaching.
- Students are encouraged to participate in technical competition, paper presentations, project competitions, poster presentations, quizzes.

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- Final year students are offered an industry sponsored projects, R&D projects.
  - Participation in national/ international competitions by providing all technical and financial supports.
  - The institute provides faculty with the latest available technical information through memberships of reputed journals like Science Direct and IEEE.
  - Institute also has student chapters and membership of professional bodies like IEEE, ISTE, CSI, etc.

#### **Expert Lectures**

- Renowned personalities form diversified paths of life like scientists, academicians, consultants, entrepreneurs, industry personnel are invited to interact with the faculty and students.
- Expert lecture series by above eminent visitors on latest technological trends is conducted by various departments.

#### **Seminars/ Workshops**

- Students and faculty have been actively participating in training programmes/ workshops.
- Every year number of national conferences and seminars are organized by various departments where students and faculty get exposure to the advanced level of knowledge.

#### **Field visits and educational excursions**

- Core engineering departments like Mechanical and Civil Engineering arrange the field visits as well as educational excursion to various places like dams, airports, metro railway, water treatment plants, MIDCs, manufacturing and process industries, industrial expos.
- Other departments also arrange educational excursion to various places like National Chemical Laboratories (NCL), Pune, IT/ITES and Electronics industries, wild life sanctuaries and other places of academic interest every year.

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

To provide Academic, psycho-social support and guidance services to the students, the institute has a strong proctorial system headed by a senior professor. The process includes,

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### **Counseling/Mentoring**

- Each department has student counseling cell, which comprises of faculty members as counselor/ mentor.
- For every 20 students, there is a mentor who helps the students to get over their difficulties during learning. The students can approach the respective mentor for discussions any time and discuss their difficulties. Effective counseling is provided by faculty member.
- The mentors interact with his/her counseling batch on weekly basis and ensure a one to one interaction 4 – 5 times in a semester.
- Mentor counsels each student and monitors his/ her progress. If in some cases, a need of professional counseling is felt then the student is counseled by a professional counselor.
- Students are counseled by professional counselor if necessary.
- The batch counselors solve the student issues related to academics, career development, campus / hostel, financial and personal matters.
- Counseling record is maintained by the mentors in yellow forms which include,
  - Personal information
  - Academic records and performance
  - Co-curricular and extra-curricular activities
  - Discussion and progress records

### **Professional Counseling by Training and Placement Department**

- Training and placement department offers professional counseling of the students with respect to create industry awareness, necessary corporate skill sets. Special emphasize is given on *General Aptitude, Soft Skills* by reputed industry trainers.

### **Psycho-Social Support**

- Students' behavioral problems are timely indentified and rectified.
- If necessary, a student who is in the need of psychological booster is suggested for psychological counseling by inviting psychologists.
- VISHAKHA Committee is formed for girl students to address their personal issues.
- NSS activity also gives social and ethical awareness among the students.

### **Parents Teachers Association Meet (PTA Meet)**

- PTA meet bridges the gap between faculty and students by developing rapport with parents

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- It serves as a platform for parents to discuss the students' academic progress, remedy and behavioral problems if any.
  - During every academic year, PTA meet has been conducted at institute level as well as departmental level.

**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?**

The innovative approaches adopted by the faculty during the last four years include:

- Faculty use laptops, modems, digital library, NPTEL video lectures and online journals, study materials and updated data from the internet.
- The utilization of innovative tools like ICT based teaching, cooperative learning to make lectures more interesting.
- Smart classrooms are developed by the institution with web based teaching. It helps to clear the doubts and exemplify the concept through audio/video modes.
- Institute has received set of 125 AKASH tablets that helps to conduct online quiz, assignments in classroom with the help of Wi-Fi connectivity.
- Moodle is commonly utilized by the faculty to upload tutorials, assignments, study material, university question papers, and model answers for the convenience of the students.
- Industrial problems solving, mini projects, group assignments, brain storming sessions such variety tasks are assigned to the students to improve self learning, leadership and teamwork.
- The students are trained through special training on uses of different software and they are encouraged to use software packages for analysis and experimental work of their projects.

**Efforts made by the institution:**

- Institute deputed the faculty for teaching learning programs like WIPRO Mission-10X, SEED InfoTech, teaching pedagogy sessions.
- Seminars / symposia are conducted regularly every year to bring out inherent talents of budding engineers. Special guest lectures are also arranged on the latest topics by eminent academicians / industrialists.

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- Faculty members are encouraged to participate in National/International level seminars by extending academic leave and required financial assistance.
  - Institute makes arrangement to telecast special Webinars on the related topics.

**Impact of innovative practices on student learning:**

- Learning process becomes increasingly individualized.
- It enables students to develop and realize their personal potential.
- Learning process helps the learners to not only enjoy learning, but also acquire skills that endue them to actively engross in the development of their personal skills, performances and achievement.
- Performances of students in various co-curricular and extra-curricular activities in other institutions get increased.
- Increase in percentage of university ranks secured by the students.
- Students prefer to join higher studies and undertake funded research projects.

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

- Central library and departmental libraries are enriched by procuring new books.
- The library committee collects the requisitions for the purchase of books from the Head of departments at the beginning of every academic year to augment the basic resources required for teaching-learning process.
- Central library is automated with Online Public Access Catlog (OPAC).
- Library facilities are provided to students beyond working hours of institute/department

**Online Resources**

The institute central library has NPTEL videos, educational CDs of different lectures by renowned professors.

**Reprographic Facility**

Reprographic facility is provided to students for photocopying of question papers, articles or any other study materials.

**Student Support and Facilities**

- Students are provided with the book bank facility.
- Physical and online display of newly added collections.

- 
- Introduction of study material facility.
  - Installation of CCTV cameras for safety and reprographic facilities.
  - Ambience for reading with spacious, comfortable seating area.
  - Isolated Boys and Girls section with separate washrooms.
  - Library has dedicated computer section with 24x7 Internet facility
  - Question paper sets of all subjects of previous University examination are available in the central library.
  - To update themselves with the current news and latest technological developments, Students and staff avail the facilities of newspapers and magazines in the library. Reference books, text books, UG and PG project reports, Research Journals Transactions, Proceedings for development of study material, projects and seminars.

#### **Newspaper Section**

- For the awareness of current affairs across the globe in all aspects, leading regional and national newspapers are provided.
- Dedicated section about the employment news / opportunities is also available in library.

#### **Student Engagement/Participation in Library**

- A separate log book for students is upkeep and maintained.
- Faculty and visitors visit record is also maintained.
- A separate feedback system is available to take feedback about library facility.

#### **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.**

- Shivaji university has prescribed a minimum of 90 days periods per semester for UG engineering programmes. But the institute works more than the prescribed days. Considering the learning aspects of students, additional hours are utilized for lectures and practicals. The planned time frame and the academic calendar for each semester give scope for extra hours and that is fully utilized by the institution.



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### **Challenges**

- Although lesson plan is prepared by the faculty as per prescribed teaching scheme in syllabus of Shivaji university, Kolhapur. But difficult subjects, some extra hours are required.
- Teaching plan does not conform the student's comprehension ability, therefore faculty could not execute exactly according to the plan.
- Delays in the State Governments admission process for the First Year Engineering (F.E) and Direct Second Year Engineering (DSE) hamper the completion of curriculum within the stipulated time of these years.
- These all things create obstacles for the curriculum completion within the planed time frame.
- Industrial visits, educational excursions, student workshops, etc. are another reason in lagging behind the completion of syllabus.

### **Institute's Plan of Action**

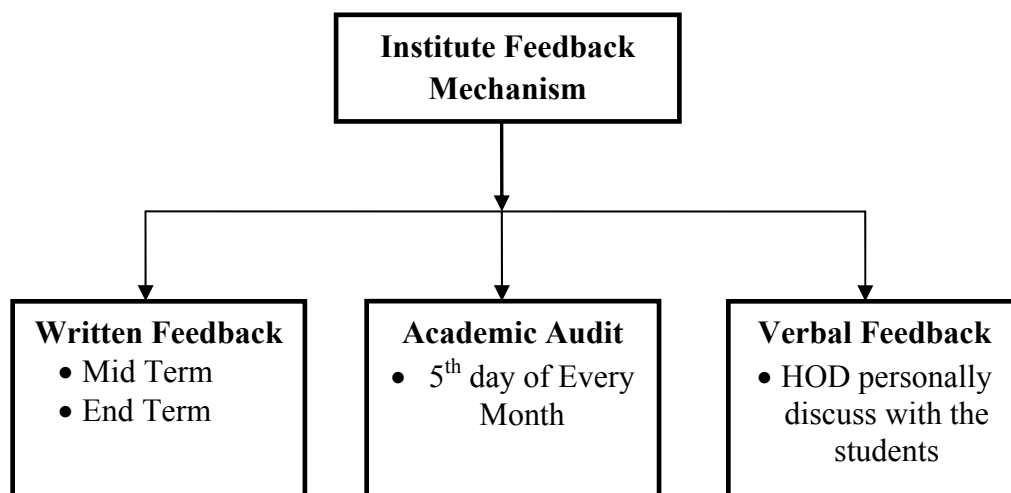
- Institute urge the students to attend the classes right from the first day of academic commencement
- Extra lectures are planned and conducted in idle slot of the regular time-table as well as on weekends, if necessary
- Institute gives the freedom to conduct additional hours of working at Saturday and Sunday.
- There is always a need to go beyond the syllabus and give extra inputs to bridge the gap amongst related units. These often necessitate the readjustments in the teaching plan. To overcome the challenge of teaching the subject within the time frame, teachers give home assignments, seminar topics on course and promote peer learning for a few selected topics.

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

- Institute has a comprehensive feedback mechanism to validate the programme curriculum and delivery
- The Institute takes care of quality of teaching-learning through Academic Monitoring Committee. Regular meetings are conducted along with the committee members, Heads of Departments and the

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Principal to undertake necessary action for smooth and quality conduction of teaching-learning process.



- Feedback Mechanism is percolated in well organized manner in the institute. A standard feedback questionnaire based on following academic metric is drafted by the institute. Questionnaires includes performance indices as,
  - Subject knowledge
  - Correlate the subject with real world examples
  - Teaching skills
  - Punctuality
  - Communication skills
- Manual feedback mechanism and academic audit are practiced in the institute.
- More than 95% students are participated and involved in the feedback.
- Verbal feedback is taken by Academic Counselors, Class- Coordinators and HODs.
- Institute takes feedback twice in a semester from the students pertaining to each faculty
- Faculty analyze the feedback and discuss with the HOD and accordingly corrective and preventive measures are carried out, if necessary.

- 
- Direct supervision of classes by the HOD, senior faculty member and Principal are taken up on a regular basis.

#### **Feedback Analysis Process**

- The feedbacks are quantified in percentages as per the rubrics developed by institute.
- The parameters mentioned in the feedback form are analyzed
- The comments / suggestion given by the students in the feedback forms are communicated to the respective faculty members along with their feedback grades to know his strengths and weaknesses and to enhance the teaching skills. The feedback analysis is useful to enhance the teaching-learning skills.

#### **Basis of reward / Corrective Measures**

- The faculty feedback grades are calculated and it is used for rewards /corrective measures.
- The faculty with feedback grade 90% and above are appreciated by HOD, Vice-Principal and Principal.
- Corrective action is suggested to the faculty with less than 75% grade. These faculty prepare and implement improvement plan of action.

#### **Academic Audit**

- It is an 'Open House' feedback method practiced in the institute
- Academic audit is carried out by Academic Monitoring Committee of department.
- It is an live and interactive feedback taken by department level auditors.
- Questions are probed to students linked to the subject and faculty.
- Student response is recorded and audit scores are calculated.

#### **Student Counseling**

- Department-wise student counseling cell has been formed.
- Faculty member acts as counselor for the given batch of 15-20 students.

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- Counselor plays pivotal role to bridge the communication gap between faculty and students.
  - Counseling forms are maintained and updated regularly by the batch counsellors.
  - Details mentioned in Criterion No. 2.3.7.

## **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 strategy:**

- Before the end of every academic year, the workload for the next academic year is calculated and accordingly the numbers of vacancies to be filled are determined.
- Recruitment of faculty is as per AICTE/University norms.
- Advertisement of the posts in the leading newspaper, websites is published.
- The applications based on experience, qualification and specialization are shortlisted.
- Vice-Chancellor appoints the selection committee consisting of experts.
- Shortlisted candidates appear before the selection committee.
- The recommendations by the committee are forwarded to the Principal of the institution for approval after which appointment orders are issued.
- Temporary basis appointments are done by inviting applications for walk-in-interviews through newspaper advertisement and qualified candidates are identified after conducting demonstrative lectures at departmental level and the shortlisted candidates appear before final selection committee for interviews.

#### **Planning :**

At the end of every academic year, the workload for the new academic year is calculated on the basis of intake of different departments and accordingly the number of vacancies to be filled up is determined. An advertisement is published in all leading newspapers and the selection of the teachers is done by the selection committee.

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### Retention strategies

- Salary scale based on the 6<sup>th</sup> pay commission is provided to the faculty.
- HRA, CCA, gratuity benefits, EPF benefits, Health Care Benefits, etc., are given to the faculty.
- The institute has a well-defined HR policy to retain faculty members. The faculty members are extended different types of leaves like CL, EL, Medical Leave, maternity leave etc.
- The institute encourages the faculty by providing proper financial assistance to attend the conference and workshop, to present papers in state, national and international seminars, symposia platforms.
- Faculty members, publishing research papers in referred journals, are rewarded.
- The institute mandates the departments to conduct regular Faculty Development Programmes/Workshops.
- Encourages the faculty to take up PG/PhD programmes on part time basis.
- The institute has time bound and performance based promotion policy.
- The institute provides staff quarter's facility for faculty from far off places.
- Moreover, the college strives to maintain a good work culture conducive enough to attract and retain quality faculty.

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	2	-	2	-	3	1	8
M.Phil.	-	-	-	-	1	-	1
PG	8	-	12	-	88	6	114
Temporary teachers							
Ph.D.	-	-	-	-	1	1	2
M.Phil.	-	-	-	-	-	1	1
PG	-	-	-	-	27	14	41

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

To teach emerging technology in concerned branch of engineering, the following steps are taken:

- Industry personnel and professors specialized in concerned areas are invited as guest/visiting faculty to deliver lectures and presentation on the emerging areas of the subjects.
- The institution paves way for the faculty to attend FDP, Workshops, and National and International conferences regularly to enrich their knowledge in emerging areas.
- The institute also utilizes online NPTEL videos resources.
- Faculty Development Programs are conducted periodically in the institute to update the knowledge in the emerging areas.
- Necessary books and journals are made available in the library.
- Recruitment process in institute is open throughout the year which identifies and appoints qualified faculty through prescribed mechanism.
- The institute facilitates to its faculty to participate in the seminars, workshops and conferences.

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

**a. Nomination to staff development programmes**

<b>Academic Staff Development Programmes</b>	<b>Number of Programmes Conducted</b>
Refresher courses	20
HRD programmes	-
Orientation programmes	-
Staff training conducted by the university	18
Staff training conducted by other institutions	9
Summer / winter schools, workshops etc.	--

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

- Teaching learning methods/approaches
- Handling new curriculum(Syllabus)
- Content/knowledge management
- Selection, development and use of enrichment materials
- Assessment
- Cross cutting issues
- Audio visual aids/multimedia
- OER's
- Teaching learning material development, selection and use

**Teaching learning methods/approaches**

- Wipro Mission 10X has been conducted for the improvement of teaching learning process.
- Utilization of modern teaching aids such as LCD projectors, OHP, smart classroom, etc.

**Handling new curriculum**

- FDPs are conducted based on new curriculum.
- Faculty members from various institutions are invited as a resource person for FDP. A forum for discussion about new curriculum is provided.
- Following FDPs were held at the institute since 2011-12,

Sr. No.	Name of the Program	Sponsoring Agency/self sponsored	Year
1	Two-Week ISTE STTP on Introduction to Design of Algorithms	NMEICT, IIT-Kharagpur	2014-15
2	Two-Week ISTE STTP on Technical Communication	NMEICT, IIT-Bombay	2014-15
3	Two-Week ISTE STTP on Environmental Studies	NMEICT, IIT-Bombay	2014-15
4	Two -Week ISTE STTP on Pedagogy for Effective use of ICT in Engineering Education	NMEICT, IIT-Bombay	2014-15

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5	Two-Week ISTE Workshop on Cyber Security	NMEICT, IIT-Bombay	2014-15
6	Two-Week Workshop on Control Systems	NMEICT, IIT-Kharagpur	2014-15
7	Two-Week Workshop on Fluid Mechanics	NMEICT, IIT-Kharagpur	2013-14
8	Workshop on NPTEL by Mr Nizar Ahmed	NMEICT, IIT-Madras,	2013-14
9	Faculty development program by Mr. Anand Patil	Self Sponsored	2013-14
10	Workshop on OS Booting by Mr Yogesh Babar, Redhat Systems Pvt. Ltd, Pune	Self Sponsored	2013-14
11	Two-Week Workshop on Signals & Systems	NMEICT, IIT-Kharagpur	2013-14
12	Two-Week ISTE Workshop on Computer Networking	NMEICT, IIT-Bombay	2013-14
13	Two-Week ISTE Workshop on Computer Programming	NMEICT, IIT-Bombay	2013-14
14	ISTE Workshop on Green Building Awareness	NMEICT, IIT-Bombay	2013-14
15	Two-Week ISTE Workshop on Engineering Mechanics	NMEICT, IIT-Bombay	2013-14
16	Two-Week Main Workshop on Analog Electronics	NMEICT, IIT-Kharagpur	2013-14
17	Two-Week ISTE Workshop on Database Management Systems	NMEICT, IIT-Bombay	2012-13
18	Aakash Android Application Programming Workshop for Students	NMEICT, IIT-Bombay	2012-13
19	2-Days ISTE Workshop On Research Methods In Educational Technology	NMEICT, IIT-Bombay	2012-13
20	Two-Week ISTE Workshop on Engineering Thermodynamics	NMEICT, IIT-Bombay	2012-13



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21	2 -Days ISTE Workshop on Aakash for Education	NMEICT, IIT-Bombay	2012-13
22	Introduction to Research Methodologies	NMEICT, IIT-Bombay	2011-12

### **Content /knowledge management**

- Faculty attend National and International seminars/conferences to update their knowledge.
- Use of contents from internet through relevant websites.
- Utilization of digital resources like presentations, videos, animations and the gadgets like OHP and LCD projectors laptops and tablets.

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

- Select and provide top class learning materials (NPTEL, EDUSAT)
- Issue self prepared lecture notes and user friendly notes, e-books and open source materials.
- Faculty members are deputed as resource persons to different institutes and organizations.

### **Assessment**

The institute makes use of some of the major tools which serve as the mechanism for assessment of the teaching-learning process.

- The Self Appraisal Report (SAR) and Performance Based Appraisal System (PBAS) of the faculty.
- Feedback from the students, parents and guardians.
- Suggestions and feedback from Industrialists, academicians and alumni.

### **Cross cutting issues**

The institute organizes seminars and workshops in which experts are invited from industry and / or academia to share and deliver their knowledge and experience, to sensitize the staff and students about cross-cutting issues such as gender equality, sustainable environment, upliftment of socially and economically weaker classes etc.

### **Audio-visual aids/ multimedia**

- The faculty members are provided with computers with Internet browsing facility so that they can prepare suitable audio-visual teaching/learning materials.
- Each class room is furnished with LCD projectors.
- Frequently utilizing multimedia tools in all training programmes.

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### OERs

Encourage the faculty members to make use of educational resources from other reputed Universities / Institutions like Stanford University, IITs, NITs etc.

### 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

Programmes	Percentage of Faculty Nominated				
	Civil	CSE	Electronics	Mechanical	Chemical
Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies	12%	24%	31%	24%	25%
Participated in external Workshops /Seminars/ Conferences recognized by national/ international professional bodies	53%	34%	56%	47%	50%
Presented papers in Workshops /Seminars / Conferences conducted or recognized by professional agencies	44%	39%	50%	62%	60%

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

To recharge the teachers, the Institute has following policies.

- Institute encourages the faculty for post graduation.
- Institute motivates faculty for PhD work.
- Provides financial support for presenting and publishing papers in national and international journals/ conferences.
- Provides computers/Laptops, internet facility and a well-stocked library facility

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- Institute organizes National Conferences, FDPs, summer and Winter Schools, IIT remote center workshops for the faculty.
  - Institute has provided Akash tablets to faculty, received from IIT Bombay remote centre.
  - Efforts are also taken to get research grants sanctioned for research projects by various funding agencies like AICTE, DST, UGC, DRDO, and CII etc.
  - Institute provides transport facilities under ISTE staff chapter for visiting various industries in local and state industrial hub at various locations and DIC Kolhapur.
  - Warana Vibhag Shikshan Mandal arranges annual staff gathering for recharging the teachers through felicitation and awards.
  - The faculty acquiring higher qualifications are felicitated and rewarded in term start and term end meeting.

**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.**

Academic Year	Number of Faculty Received Awards
2010-2011	2
2011-2012	2
2012-2013	2
2013-2014	1
2014-2015	3

**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,

- Feedback on faculty members is collected from students twice in each semester and is analysed in view of improvement in teaching learning process.
- A feedback based on standard questionnaire about faculty is collected from all the students.
- Continuous evaluation of contents of academic diary by academic audit committee is carried out.

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- Self appraisal reports by teachers are collected, analysed and evaluated.
  - Counselling of the teachers is done by senior professors for their improvements.
  - Departmental meeting to review the quality of teaching is conducted every month.
  - Departmental monthly Management Information System (MIS) Report is presented by the head of department for principal and faculty every month.
  - Performance Based Appraisal System (PBAS) for teachers is collected, analysed and evaluated.
  - Industry, alumni, parents feedback
  - Teachers are indirectly evaluated by various activities that are required to fulfill and improve the quality of teaching learning process by assigning tasks related to various visits of academic bodies throughout the year. These are HPC by DTE, NBA, LIC, UG and PG Affiliation Continuation committee.
  - The Head of the Department discusses about the feedback with the individual faculty. If necessary, faculty are advised and supported with valuable suggestions.

## **2.5 Evaluation Process and Reforms**

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

- The institute is affiliated to Shivaji University, Kolhapur. The regulations, curricula and syllabi of all the programmes offered by the university are available in the institute and university as well as on institution's websites.
- Students and faculty members get acquainted with Shivaji University rules, regulations and evaluation process through orientation programs.
- Various workshops are conducted on syllabus framing, curriculum development and teaching methodology at university level in which unit wise evaluation schemes are finalized.
- Evaluation process is thoroughly discussed in the meeting held between Heads of department and Principal and as well as in class committee meetings with students.
- At university level, theory examinations, practical or examinations

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are conducted and evaluation of the same is done by the university through Central Assessment Centre. In this process, the faculty contribute for same as paper setter examiner, supervisor, CAP Director and member of flying squad.

- The students demand the photocopy of their answer sheet after declaration of the result and also apply for re – evaluation process.
- At institute level – the term work marks and related documents displayed on the notice board. The students are informed about criteria for the internal assessment and clearly made aware of the eligibility conditions (like minimum attendance requirement, submission etc) to appear for final examination.
- Continuous assessment report of all the courses is displayed in respective laboratories, every month.
- Staff meetings are conducted periodically to review the evaluation process.
- The evaluation is an integral part of teaching learning process. So, the institution makes effective arrangements for the smooth functioning of the evaluation processes. The institute has developed a appropriate mechanism for this purpose.
- Thus, all stakeholders are consulted and their opinion is sought before any changes are affected, such prevailing information is given in the form of circulars and notices are displayed at prominent places in various departments, library and examination cell.
- Academic calendar is displayed, that adheres to the systematic conduction of institute level and university level examinations.

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

- As an affiliated institute, the Principal or senior professors participate in all the meetings conducted by the university such as syllabus revision workshops, meeting for finalizing the dates of university level examinations, schedule for centralized assessment work etc.
- The conduction of examinations and declaration of results is one of the important activities of the university. The evaluation reforms are adopted and followed by the institute as per university norms for theory examinations, practicals, oral examinations and internal assessment.
- In recent years, the major evaluation reforms of the university have been adopted by the institution are given as below,

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- 1) The university has initiated the online examination form filling, online examinations for Computer science and Engineering courses as well as online result declaration on university portal.
  - 2) Updating of the data on college and teachers' profile and assessment order for faculty is given on university portal.
  - 3) Scrutiny of the assessed/moderated answer books and computer operators for direct entry of marks on computers.
  - 4) Standard model answers are prepared and guidelines are given for evaluation.
  - 5) Facility of applying for verification of marks, issue of photocopies of the assessed answer books, revaluation of answer books.
  - 6) Results are announced within the time limit.
- The major evaluation reforms have been adopted by the institute are given as below,
    - 1) The institute organizes FDPs and seminars on evaluation processes.
    - 2) All the tests and end-semester examinations are conducted strictly as per the academic calendar and answer books of the tests are shown to the students.
    - 3) Continuous evaluation and grading system is employed for internal term work assessment and students are informed the criteria for the internal assessment.
    - 4) The institute has started the SMS facility to inform parents about their wards performance regarding attendance and test results.
    - 5) The feedback and academic audit from students is taken twice in a semester to evaluate the performance of the teachers.
    - 6) Moodle based online tests are conducted for the students.
    - 7) At institute level, a very senior faculty is appointed as a examination co-ordinator which includes,
      - Preparation of exam time table.
      - Guidelines for paper setter and smooth conduction of examination.
      - Result declaration.
      - Feedback from students and faculty members regarding any reforms.

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### **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?**

- Implementation of the evaluation reforms of the university :
  - 1) The university has started the online system of admissions, online examinations, online submission of the internal assessments, online mark sheets. This online procedure is implemented by the institute.
  - 2) University appoints our faculty as paper-setter, internal/ external examiner, junior/ senior supervisor, CAP Director and member of flying squad which is followed by the institute.
  - 3) The institute organizes university examination as per schedule declared by the university and ensures the examination process strictly with rules and regulations laid by the university for smooth conduction of examinations.
  - 4) The university has adopted progressive evaluation strategy and same is implemented by the institute.
  - 5) Students can apply for photocopy of answer sheet and revaluation of answer books from institution as per the procedure of the university.
- Implementation of the evaluation reforms of the institute:
  - 1) Each department of the institute conducts internal tests. The students can see their respective answer books and discuss their queries with concerned staff. The test marks and model answers are displayed on notice board, Moodle platform and also informed to the parents through the SMS facility.
  - 2) The term work evaluation is done by respective course teachers. The performance evaluation of students is displayed on notice board through continuous assessment work and accordingly internal term works are given.
  - 3) The internal marks to the students are given on the basis of test performance, laboratory performance, internal orals and attendance followed as per the university instructions.
  - 4) Head of institute conducts a meeting with all the heads and faculty of the department before every semester examination regarding the smooth and fair conduction of examination where every faculty members is encouraged to putforth his/her suggestion on various aspects of examination based upon inputs of previous examinations.

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

- **Formative evaluation approach:**

The purpose of the formative assessment is to monitor students learning and to identify weaknesses of students and improve their learning strategies. The performance and achievement of every student are monitored by the batch counselor, class coordinators and Head of the respective department. Generally, the following formative evaluation approaches are adopted to measure student's achievements:

- 1) Home assignments
- 2) Multiple choice questions on Moodle facility
- 3) Seminar presentations
- 4) Group discussions, quiz competition, debates etc.
- 5) Conduction of personal interview
- 6) Reviews and observations in a classroom and lab
- 7) Providing support for sports, cultural activities and various competitions.
- 8) Promotes the student to participate in mini projects, paper presentation, project competition, workshop, seminar etc.
- 9) Overall attendance and conduct during the session.
- 10) Parents meeting.
- 11) Extra-curricular activities by the students.

- **Summative evaluation approach:**

The purpose of the summative assessment is to evaluate the student learning at the end of an instructional unit. The internal and end semester examinations make a summative assessment of the students considering their performances in the theory papers. Such assessments help the students to prepare themselves for the next semester and work harder. The methods adopted for the summative assessments are as following,

- 1) Two internal examinations every semester as per university rules
- 2) End semester university examination
- 3) Practical examinations and Viva-Voce



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- 4) Project Works
  - 5) Industrial visits
  - Sample examples which have a positive impact on the system :
    - 1) At the institute level, the merit rankers are appreciated for their academic excellence by giving away the rewards.
    - 2) The students with weak academic performance is identified and they are counselled and guided if needed, which results into improvement in their performance.
    - 3) Students become more serious towards attendance in the classes as the evaluation system carries internal marks for good attendance.
    - 4) Students are encouraged to attend the advanced technical courses related to the current industry demands. Such a participation has weightage in evaluation system.

**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.).**

- As our institute is affiliated to Shivaji University, the criterion adopted for internal assessment is as directed by the university. All the students are familiar about the transparency in the internal assessment.
- To monitor the students progress, the institute has a continuous internal evaluation system which consists of internal assessment of experiments, mid term and end term tests.
- Internal assessment is done by individual faculty for his/her respective subject considering marks of written tests, term work completed, percentage attendance, internal oral, industrial visits, and behavioural aspects.
- The tests are conducted similar to the university examination. The assessed answer sheets are given to the students for verification whether all the answers are assessed. Student returns the answer sheets to the faculty when he/she is satisfied or convinced.
- After test results are discussed in the class, results are displayed on the notice board and Moodle platform and students are individually counselled. Test results are also sent to their parents through SMS.
- Internal assessment is done for 25 marks, in which 10 marks are given for attendance, 5 marks for test performance, 5 marks for

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experiments and 5 marks for internal orals.

- This marking scheme for internal assessment is informed to the students, the details about schedule; plan and evaluation method is also informed at the beginning of the semester by course teacher.
- While evaluating students for internal assessment, transparency is maintained and due weightage is given for their behavioral attributes, independent learning and communication skills.
- 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, sports, project competition etc.

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

- The following are the graduate attributes specified by the college:
- **Engineering Knowledge:** to apply fundamental concepts of mathematics, science, engineering to solve engineering problems
- **Problem Analysis:** to analyze a problem, to conduct experiment and interpret data
- **Design / Development of Solutions:** to design and conduct experiments, model and analyze physical system, components or process to meet desired needs
- **Conduct Investigations of Complex Problems:** to conduct independent research for information required in engineering problem solving, identify, formulate and solve engineering problems
- **Modern Tool Usage:** to use modern engineering techniques, skills and computing tools necessary for engineering practice
- **The Engineer and Society:** to predict the impact of engineering solutions in a global and societal context
- **Environment & Sustainability:** to incorporate economic, environmental and safety considerations in design process
- **Ethics:** to execute professional and ethical responsibility
- **Individual and Team Work:** to work on practical assignments, projects to enhance interpersonal and leadership skills
- **Communication:** to communicate effectively through engineering drawing, written reports and oral presentations
- **Project management and finance:** to effectively manage the project along with financial demands and availability.

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- **Life -long learning:** to learn each and every thing throughout life span with updated knowledge.

The above graduate attributes are being evaluated for its attainment level by using PO-CO-COs matrix. Each course faculty sets Course Objectives (CO) and Course Outcomes (COs). Its attainment level is being observed by using in-house software developed by a faculty. This software includes evaluation of attainment of COs based on the parameters like performance in unit tests, preliminary examination, seminar presentation, university theory papers, project work, industrial visits, percentage placement of students and students opting for higher education. These different outcomes are then mapped in the form of matrix of graduate attributes and its attainment level.

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

The mechanism followed for redressal of grievances with reference to evaluation is as follows,

#### **At institute level:**

- At college level, the answer sheets of the internal examinations are shown to students by the respective subject teacher. If student has any grievances, the teacher-cum-examiner explains the fact clearly and can correct the grade or marks given, if justified.
- The students get their assignments checked from teachers and in this case the students can ask their queries to the faculty.
- Percentage attendance is displayed on the students' notice board and according to this, term work marks are allocated to the students.
- The mechanism is very transparent and students agree to the marks and sign the marksheet.

#### **At University level:**

- In case of university examinations, there is a mechanism adopted by the university for redressal of grievances.
- After declaration of the results, students can apply for revaluation / rechecking, photocopy of answersheet through the examination section of the institute.
- Institute examination incharge forwards these applications for revaluation to the university examination cell. After receiving the photocopy students show the same to concerned course teacher, discuss the grievances and seek advice. The examination section of the college follows up for quick redressal at the university level.

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- The student can claim for the marks suggested by teachers against the evaluation by university and the application is followed up regularly for speedy redressal of grievances.

## **2.6 Student performance and Learning Outcomes**

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

- YES, the institute has clearly stated learning outcomes. The Programme Educational Objectives
- (PEO), Programme Outcomes (PO) have been defined by every department.
- PEOs, POs are defined so as to fulfil the requirements of all stakeholders and industry and shared with the student.
- Graduate attributes are displayed in every department, on college website and these attributes are discussed with the students.
- Learning outcomes are notified to parents during parent meet.
- Learning outcomes are uploaded on the institute website and Moodle.
- Learning outcomes are displayed in the corridors and in the laboratories.
- Different course outcomes are discussed by faculty with the students for the course conducted by them in classroom.
- Special brainstorming sessions are arranged and faculty take active involvement in these sessions for further modification and to understand the concept of learning outcomes.
- As an example, the Program Educational Objectives and Outcomes of the Department of Civil Engineering are stated below,

#### **Program Educational Objectives-**

Civil Engineering Graduates will -

- Be competent with a strong technical background to design and undertake multidisciplinary projects.
- Exhibit excellent leadership skills with due consideration to ethical values and safety.
- Participate in research and development activities to provide sustainable solutions.

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- Excel in the use of professional software for planning, analysis and design.
  - Become successful entrepreneurs to encourage vibrant growth in infrastructure.

#### **Program Outcomes-**

After Completion,

- Demonstrate knowledge in mathematics, basic sciences and civil engineering
- Identify, formulate and solve civil engineering problems.
- Prepare structural design that fulfills specification, durability, economy & safety.
- Design and conduct experiment, analyze data and interpret result to provide conclusion.
- Use appropriate engineering techniques and software tools to analyze civil engineering problems.
- Apply civil engineering knowledge for construction site in all respect like planning, execution and supervision.
- Successfully face towards ethical, societal and environmental issue along with professional work.
- Exhibit understanding of professional and ethical responsibilities.
- Ability to function as a leader of multidisciplinary team.
- Communicate effectively in both verbal and written form.
- Develop engineering research ability and project management skill.
- Possess confidence for self education and ability for lifelong learning.

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

Institution monitors and communicates the progress and performance of students by following activities:

- 1) Counseling report of the students: For every teaching faculty one counselling batch is allotted. Counselling of each student is done by

respective faculty after every fortnight in which family background, previous academic record, internal test marks, university exam results, co-curricular and extracurricular activities, special achievements are recorded throughout the duration of the course.

- 2) The academic performance is monitored by observing the students performance in the classrooms through class-tests, interactions, group discussions, assignments and observing their performance in final semester examinations taking both theoretical and practical aspects into consideration.
- 3) The parent-teachers meetings are conducted once per year and students are counseled in addition to their parent's advice.
- 4) The regularity and punctuality of the students is monitored by recording attendance in the classrooms and practicals.
- 5) The students and parents are communicated about the progress through notice board, university website, college website, e-mail, letters, SMS and by arranging parents meet.

Academic Year/ Semester		UG Student Result in %				
		Mechanical	Civil	Chemical	CSE	Electronics
2010-11	Odd	85.98		83.56	83.00	53.93
	Even	96.26	87.78	94.52	91.53	89.23
2011-12	Odd	85.71		96.83	66.66	66.12
	Even	90.65	90.00	96.77	97.22	93.54
2012-13	Odd	87.25	68.42	71.05	82.39	96.30
	Even	90.29	92.00	92.00	92.95	92.59
2013-14	Odd	72.10	70.59	83.33	82.39	63.10
	Even	93.22	87.00	87.50	95.89	94.04
2014-15	Odd	81.21	61.53	81.01	87.56	88.31
	Even	91.16	91.49	88.75	90.67	68.83

Academic Year/ Semester		PG Student Result in %			
		Mechanical	Civil	Chemical	Electronics
2011-12		64.70	18.18	22.22	27.77
2012-13		27.77	61.11	44.44	16.66
2013-14		77.78	55.60	33.33	27.77
2014-15		70.59	38.88	33.33	38.88

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

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

- Faculty specialized in specific subject is appointed as a member for that particular stream of program, who ensures the quality.
- An academic calendar is prepared by the institute before the commencement of academic year which is strictly followed.
- Academic calendar include each and every activity with proper balance in all respect and scheduling.
- The academic time tables are prepared in accordance with the University structure which includes sessions for theory and practical, to meet learning outcomes.
- Every staff member prepares teaching plan that includes content in curriculum keeping in view course outcomes and programme outcomes.
- In case, students do not understand the critical part of syllabus expert faculty is appointed to deliver the additional content to clarify the doubts.
- Monthly follow up of theory and syllabus coverage is taken in departmental meeting.
- Monthly tests are conducted to review student progress.
- Students are encouraged to attend seminars, workshops and various events.
- Students are evaluated by class tests, assignments, internal practical orals, the result of these activities are used to understand to know learning outcome of students.
- Library working hours are extended during internal tests and semester examination to support students.
- Systematic documentation is maintained to review the outcomes of the curriculum.

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

Following are the measures/initiatives taken up by the institution to enhance the social and economic relevance (quality Jobs,

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entrepreneurship, innovation and research aptitude) of the courses offered.

- Social camps are organized by NSS committee of institute with various residential camps in rural area addressing various social issues, along with activities like blood donation camp.
- Students are advised to get connected the social issues through their mini projects and other activities.
- In relevance to project work, research attitude is developed among students along with leadership qualities, skill to deal with particular problem in efficient way.
- Institute has structured research committee at department level with the objective to develop research environment to motivate faculty and students to get actively involved in research projects
- An active Training and Placement Cell of the institute works continuously to enhance various skills among the students for their placements.
- The institute provides training to the students for aptitude tests.It covers verbal, logical, mathematical, analytical and general aptitude.
- Apart from these training, the institute organizes the programs to enhance the technical skills.
- Entrepreneurship development cell of institute provides various resources to students through various programs to develop entrepreneurship skill among them.
- Institute has set up separate career development cell that organizes different programs along with coaching classes exclusively for GATE aspirants.

#### **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?**

- Attendance of the student is monitored in each month through Google docs. At the end of semester weightage of 5 marks is given for attendance in term work mark analysis.
- Mid and end term test marks are collected and analyzed by respective subject teacher, which is communicated to departmental and institute level exam committee.
- The institute has the system of result analysis for university examinations. Every department prepares the result analysis of each subject and overall results. Corrective action is taken for the betterment of the students' performance.



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- For subjects where percentage of failure is high, remedial classes are conducted. Attention is paid to lateral entry students for subject like mathematics.
  - Academic audit is conducted in every month and as per students' suggestions, successive progress is observed in consequent audit.
  - All data collected above is analysed in departmental and institute level meetings along with corrective suggestions. It is also communicated to the management. If required, corrective measures are suggested in form of remedial classes, extra lectures, additional coaching etc.
  - Using the report of above analysis, lesson plan are modified to overcome the barriers of learning.

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

Achievement of learning outcomes is verified at four main levels:

##### **➤ Classroom-based assessment:**

- Attendance of the students is monitored and if it is not satisfactory then it is conveyed to the parents through letters, messages in every month.
- The students performance is closely monitored by their respective class co-ordinators and concerned faculty members within class
- The students along with class co-ordinator are made to interact with HOD to counsel weak students and suggest remedial actions such as extra classes for them.
- The Principal, HOD and senior faculty regularly visit the classes to assess the teaching-learning process.
- Continuous Assessment Report is displayed on notice board of the respective department every month
- Periodic student feedback.

##### **➤ Institute level assessment:**

- The institute has a continuous internal evaluation system. The progress and performance of the students during four years of programme assessed through unit tests (twice in term), preliminary examination for first year students, module test, assignments, orals examination etc. These tools are used to find out the progress of the students and to improve their academic performance.

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- The institute organizes regular meets with parents and guardians to have constructive dialog.
  - Teaching-learning process is regularly reviewed.
  - The institute maintains a record of the marks obtained by the students in the unit tests and their university ranks.
- **University examinations:**
- The university conducts the written/theory/practical examination at the end of each semester. The result of same are communicated to the students and parents. The academic monitoring is also done from university result.
  - Collecting data of the performance of the students in the previous qualifying exam before commencement of the course to assess the ability of the student and identifying academically excellent as well as weak students.
  - Result analysis is prepared by every department after the declaration of university results for every semester. This report is compared with the reports of previous years to monitor the progress of the department and take corrective actions wherever necessary.
- **Co-curricular and extracurricular activities:**
- The institute organizes co-curricular and extra-curricular activities to enrich the 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, the institute as well as individual teacher uses assessment/ evaluation as an indicator for evaluating students’ performance, achievement of learning objectives and planning.
- Enhances subject knowledge and increases content and depth of understanding by studying for tests and final examinations, writing the answers and by completion of submission work.
- Increases practical and technical knowledge and ability to work in a team by performing experiments and project work.
- Facing the internal / external orals increases confidence level, communication skills, and interview techniques.
- Discipline and Punctuality achieved by assessment of attendance.

**Criterion III**  
**Research,**  
**Consultancy and Extension**

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**CRITERION III : RESEARCH, CONSULTANCY AND EXTENSION****3.1 Promotion of Research****3.1.1 Does the institution have recognized research centres of the affiliating University or any other agency/organization?**

The institute runs four PG programmes viz. M.E Mechanical (Design Engg.), M.E Civil (Construction Management), M.E Electronics Engineering and M.E Chemical Engineering. In all these PG programmes, we have PG research laboratories recognized by Shivaji University, Kolhapur. Students have been provided computational, analytical, experimental work of their interest.

Sr. No.	Description	Recognized University	References
1	PG Research Laboratory	Shivaji University, Kolhapur	Affi/T-2/VTD/VIDYAPARISHAD/Sub No.307/Dt/15-May-2014/3444//16-June-2014

**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.**

An institute level research committee has been formulated to guide, promote and monitor research and development initiatives of students and faculty comprising of senior faculty, academicians, industrialists and scientists from renowned organizations and institutes. The committee is as follows,

**Institute Level Research Committee**

Sr. No.	Name	Position	Designation
1	Dr. S.V. Anekar	Chairman	Principal, T.K.I.E.T., Warananagar
2	Dr.A.V.Patil	Coordinator	Applied Sciences
3	Dr.V.D.Patil	Co-Coordinator	Asst. Professor, Applied Sciences
4	Prof. G. S. Kamble	Member	Asst. Professor, Mechanical Engg
5	Prof. A. G. Patil	Member	Head CSE Engg.
6	Dr. Sanjay Mahajani	Member	Professor, IIT, Bombay

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7	Dr. Girish Kulkarni	Member	Executive Director, DoT, Shivaji University, Kolhapur
8	Dr.P.D.Raut	Member	Professor & Head, Environmental Sciences, Shivaji University, Kolhapur
9	Dr.Nilesh Uke	Member	Professor, HoD InfoTech Sinhgad College of Engineering, Pune
10	Mr.Ramesh Hegade	Member	MD, Biltube India
11	Dr. Dabade U.A.	Member	Professor, WCE, Sangli
12	Mr. Amol Shirke	Member	TCS Project Manager, Pune
13	Mr. R. M. Sawant	Member	Industrialist, Vijayashri Industries, Ichalkarnji
14	Prof.R.T.Patil	Member	Professor, Electronics Engg.
15	Prof.K.I.Patil	Member	Asst.Prof, Chemical Engg.
16	Prof.D.M.Patil	Member	Asst.Prof, Civil Engg

The committee members meet frequently for guiding and promoting the research activities and generating policies for the same.

#### **Outcomes of Research Committee's advice:**

For promoting the research activities, the researchers of the institute 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. The funds are also provided for research publications in National and International journals. The registration charges, travelling and other allowances are reimbursed to such faculty by the institute.

#### **Research Areas:**

The institute has identified the research areas of different departments. The table is as below,

#### **Research Areas**

Sr. No.	Department	Areas of Research Activities
1	Mechanical	Heat transfer enhancement, Micro machining, Experimental stress analysis, Composite materials
2	Civil	Earthquake engineering, Concrete technology, Structural engineering, Geotechnical engineering & surveying

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3	Chemical	Separation Processes, Heat & Mass Transfer, Process Simulation (ASPEN PLUS, UniSim, ProMax), Membrane Module, Jaggery Production
4	Electronics	Digital Signal Processing, Embedded Systems, Wireless Communication, Antenna, Power Electronics & Instrumentation, Digital Systems and Microprocessors.
5	Computer Science and Engineering	Data Mining, Image Processing, Software Testing, Parallel Processing, Distributed Computing,
6	Applied Science	Earthquake and Ionosphere, Energy and Organic Chemistry, Inorganic Chemistry, Algebra, Fuzzy Choice Theory, Pragmatics in English language

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

- Departments have applied and received funds under the schemes of MODROBS and RPS.
- Institute organizes National conferences for research publications of the faculty and students.
- Institute organizes State and National level technical events and project competitions.
- Six faculties have completed their Ph.D recently, while 32 faculties have registered for Ph.D. programmes and are pursuing their research work. All these faculties are motivated for their research work.
- A significant improvement has been observed in the presentation of papers in national and international conferences as well as publication of articles in reputed journals.

**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,**

The principal investigator has full autonomy to utilise the infrastructural facilities and recommends the standard list of equipment and specifications for their research work.

**• Timely availability or release of resources,**

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

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- **Adequate infrastructure and human resources,**

Various schemes funded by different agencies like RPS of AICTE and Industry based projects are undertaken by the Institute. For this projects, the Institute provides necessary infrastructure, manpower and other support as per demand of investigator.

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

The principal investigator is provided with facility by the required way of special leaves to attend national and international conferences, workshops, seminars, and if required, his work load is also adjusted within the department.

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

The institute has updated the library by subscribing e-journals to facilitate research environment and to create 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 through the Chartered Accountant (CA) would be submitted to funding agency on completion of research project.

- **Any other**

Institute encourages development of research laboratories in the thrust areas.

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

Institute always conducts events which are fully organised and managed entirely by the students. Similarly, the institute always supports financially to carry out following competitions such as “EUREKA” a national level paper presentation competition, “JIDNYASA” a national level project competition and industrial problem solving event.

Funds are made available for UG and PG student as well as this fund is used for purchasing equipment and material. Also students are given TA & DA facility to participate in various national level events and to present research papers.

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**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 doctoral research by faculty:**

As the institute runs four PG programmes, many faculties are PG guides and actively guide PG projects. Some PG projects are undertaken jointly with institute of national repute and industries. Dr. S. V. Anekar is recognised Ph.D guide in Shivaji University, Kolhapur and is involved in guiding Ph.D Students.

Faculty is always interested in pursuing the Ph.D and continuing the research. Following information reveals that faculty is actively involved in the research.

Ph.D. Awarded faculty while in service : 06

Faculty registered for Ph.D. : 32

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

Sr. No.	Title of the research project (UG/PG/RPS/Any other)	Name of faculty and students	Year of completion
1	Effluent Treatment of Dairy Waste By Ultra filtration	Dr. S. V. Anekar	On going
2	Setup of Multimedia and Simulation Laboratory as an aid for advanced practices in multimedia technology for Teaching Learning Process	Prof. A. G. Patil	On going
3	Secure data access in cloud computing	Pooja Gurav, Rajashri Rajigare, Rohini Pokarnekar, Shital G. Patil, Guide: Prof. P. A. Patil	2014-15
4	Extended field trials on Jaggery Process and Product Improvements	Mr. Rohan Dangare Mr. Manoj Deokar Guide: Dr. S.V. Anekar	2014-15
5	Design and fabrication prototype of intelligent braking system	Mr. Kurne Vishal, Mr. Shenavi Vinayak Guide: Prof. S. V. Lingaraju	2014-15
6	3D Surface Mapping / Modelling using Ultrasonic Technique	Omkar P. Shinde, Ramesh R. Masal, Dipesh V. Shinde. Guide: Prof. S. H. More	2013-14



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7	Modelling, Design, Development and Testing of Bent Axis Piston Pump	Mr. Doijad Vijay Vilas Guide: Prof. A. S. Todkar	2013-14
8	Onion & Garlic Harvesting Machine	Mr.Suneet Tembore Mr.Nitish Todkar Mr.Pranav Yadav Guide: Prof. K. D. Joshi	2013-14
9	Production of BIOCNNG from press-mud	Chinmay Sawant, Akshay Patil, Abhijit Redekar, Joseph George, Mahesh Kharade Guide: Prof. J. S. Patil	2013-14
10	Floating Concrete	Mr. Amol O. Golatkar, Mr. Bharat N. Bhuiambar, Mr.Shalivan R. Bhosale, Mr.Harish N. Laddha, Ms. Dhanashri V. Asabe Guide: Prof. R. V. Kajave	2013-14
11	Analysis of normally consolidated soil for settlement prediction	Suhas Patil, Aniket Sawant, Guide: Prof. S. B. Kumbhar	2012-13
12	Akash Android Programming	Prof. D. G. Chougule	2012-13
13	Agro IT	Ms. Shinde Pooja R, Ms.Tamshetti Radhika D., Mr. Chougale Rohit, Mr. Mahamure Sandesh, Ms. Patil Sweta, Guide: Prof. K. K. Awale	2012-13
14	Design & Development Of Solar Assisted Bicycle	Mr.Ajit Bhagawan Bachche Guide: Prof. N. S. Hanamapure,	2011-12

**The faculty are 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, New Delhi.

- Faculty is also associated in the industry sponsored projects. Many of the final year projects are industry sponsored under the guidance of faculty members.
- Faculty regularly presents research papers in national and international journals and conferences.
- Faculty members present the research papers along with the students in conferences, seminars and symposium.

**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.:**

Year	Seminar/ conference	National/ International	Title	Date	Funding	No. of partic- ipant
2015-16	Conference	National	DIME-2K15	30-7-2015	Self	72
	Workshop	National	An Introduction to CFD for Engg. Research	4/12/2015	Self	28
2014-15	STTP	National	Control System	2/12/2014	IITK	55
	Workshop	National	AUTOSTROKE (2K15)	6/2/2015	Self	80
	Workshop	National	Supply Chain Management	9/2/2015	self	52
	Workshop	National	Metabotics and Robotics	28-02-2015	Self	73
	Workshop	National	PLC and Automation	3/3/2015	Self	46
	Training	National	Group Discussion	23-01-2015	Self	50
	Workshop	National	Step-2 Research	19-20 Sept. 2014	Amal Jyoti COE, Kanjirappally	65
2013-14	STTP	National	Fluid Mechanics	20-30 May 2014	ISTE-IITK	60
	Workshop	National	Step-2 Research	19-20 Sept. 2014	Amal Jyoti COE, Kanjirappally	65
2012-13	Workshop	National	pneumatics	5/3/2013	Self	18
	Workshop	National	Energy Management	2/1/2013	Self	13
	Training	National	FFT Analyzer	6/3/2013	self	10

2011-12	Workshop	National	Teaching Methodology in M.E. Design Engineering	30-01-2013	Self	23
	STTP		Engg. Thermodynamics	11/12/2012	ISTE-IITB	65
	Workshop	National	I-Robotics	4/10/2011	Self	69
	Workshop	National	Road Safety	13-01-2012	Self	42

**Details of Workshops/Training programmes conducted by CSE Department**

Sr. No.	Name of activity	Date	Sponsoring agency/Self sponsored	No of participants
1	Introduction to Design of Algorithms	25-05-2015	NMEICT, IITKGP	50
2	Jidnyasa 2K15	22-03-2015	ISTE Student Chapter, Skill Assure, Maharashtra Times	650
3	Android Application Development	12 & 13-02-2013	IIT Mumbai	40
4	Introduction to Research Methodology	08-07-2012	IIT Mumbai	60
5	<b>Workshops</b>			
	Workshop on Python/PHP/MySQL	14-02-2015	IIT, BOMBAY	6
	ISTE Coordinators Workshop on Computer Networking	05-05-2014	NMEICT, IITB	30
6	<b>Student Activities</b>			
	Network Essential training	11-01-2011	Tech Sangam	70
	Workshop on Core Java and ASP.NET	10-05-2010	SEED InfoTech	120

**Details of Workshops/Training programmes conducted by Electronic Department**

Sr. No.	Name of activity	Date	Sponsoring agency/Self sponsored	No of participants
1	Workshop on Embedded System for BE Electronics Students	14 <sup>th</sup> August 2014	Core Technology Kolhapur	82

2	Workshop on ROBOTICS	8, 9th August 2014	ROBOGENESIS, Bangalore.	55
3	Two Week STTP on “ Signals and Systems”	2 <sup>nd</sup> -12 <sup>th</sup> Jan 2014	IIT Kharagpur & MHRD New Delhi	22
4	Two Week STTP on “Database Management Systems”	21 <sup>st</sup> -31 <sup>st</sup> May 2013	IIT Mumbai & MHRD New Delhi	41
5	Akash android application programming workshop for students	23, 24 Feb & 3, 4 Mar 2013	IIT Kharagpur & MHRD New Delhi	250
6	Two Week STTP on “ Research Methodology”	25 Jun- 4 July 2012	IIT Mumbai & MHRD New Delhi	72
7	Two Week STTP on “ Analog Electronics”	4 <sup>th</sup> -14 <sup>th</sup> June 2013	IIT Kharagpur & MHRD New Delhi	38

**Details of workshops/Training programmes conducted by Chemical Department**

Sr. No.	Name of activity	Date	Sponsoring agency/Self sponsored	No of participants
1	Workshops	30 <sup>th</sup> July – 1 <sup>st</sup> Aug 2010	Regional workshop on “Intellectual Property Rights Studies”	25
2	National conferences	15 <sup>th</sup> & 16 <sup>th</sup> Dec.2008	Self sponsored National conference on Environmental Engg. & Management (NCEEM-2008)	50
3	Training to Industrial Employees	11 Feb-14 Feb 2006	Training on ASPEN Plus to the technical staff of I-G Petrochem	05
4	Training to Industrial Employees	29/10/2003.	Self sponsored 1 <sup>st</sup> Networking Between Industry & Academia organized by M/s Gharada Chemicals Ltd. Lote on 29/10/2003.(Presented the benefit of the ASPEN Plus Software in Process.	20

**Workshops sponsoring agency/Self sponsored Chemical Department**

<b>Sr. No</b>	<b>STTP / Workshop</b>	<b>Title</b>	<b>Duration</b>	<b>Place</b>	<b>No. Of Participants</b>
1	Workshop	Chemical Engg. Curriculum Development for T.E.	26 <sup>th</sup> August. 2015	Shivaji University, Kolhapur at TKIET, Warananagar	30
2	ISTE-III, Kharagpur-Workshop	Control System	2 <sup>nd</sup> – 12 <sup>th</sup> Dec 2014	TKIET, Warananagar	80
3	Workshop	Chemical Engg. Curriculum Development for S.E.	24 Feb. 2014	Shivaji University, Kolhapur at TKIET, Warananagar	30
4	43 <sup>rd</sup> ISTE National Annual Convention	Empowering Technical Education To Address Sustainability and Global Competitiveness,	19 <sup>th</sup> -21 <sup>st</sup> December 2013	TKIET, Warananagar	150
5	Workshop	Chemical Engg. Curriculum Development for M.E.	30 <sup>th</sup> & 31 <sup>st</sup> August 2012	Shivaji University, Kolhapur at TKIET, Warananagar	30
6	Workshop	Aspen Plus in Chemical Engg.	5 <sup>th</sup> -6 <sup>th</sup> March 2010	TKIET, Warananagar coodinator	30
7	Workshop	Mission 10X workshop	7 <sup>th</sup> Dec. to 11 <sup>th</sup> Dec.2009	Wipro at TKIET, Warananagar	40
8	Workshop	Chemical Engineering Curriculum Development	18, 19 Nov.2004	Shivaji University, Kolhapur at TKIET, Warananagar	30

**Details of workshops/Training programmes conducted by Department of  
Civil Engineering**

<b>Sr. No.</b>	<b>STTP / Workshop</b>	<b>Title</b>	<b>Duration</b>	<b>Sponsoring agency/Self sponsored</b>	<b>No. Of Participants</b>
1	STTP	Environmental Studies	2/6/2015 to 12/6/2015	IIT Mumbai	45
2	STTP	Pedagogy ICT	5/1/15 to 21/1/2015	IIT Mumbai	35
3	Workshop	One day workshop on Rain Water Harvesting	20-10-2014	Self	60
4	STTP	Engineering Mechanics	26/11/13 to 6/12/13	IIT Kharagpur	60
5	Workshop	Open source software	26-10-2013	Self	35
6	Workshop	ISTE Workshop on Engineering mechanics	16-09-2013	Self	45
7	Workshop	Recent advancements in environmental friendly construction	01-01-2013	Self	45
8	STTP	Effective Teaching Methodology,	3/9/2012, 10/11/2012	IIT Mumbai	80
9	Workshop	Three days workshop on Geoinformatics	5/3/2011 to 7/3/2011	Self	45
10	Workshop	Three days workshop on Total Station	21/8/2010 to 23/8/2010	Self	25
11	Workshop	Microsoft Project – MSP	26-08-2014	Self	146
12	Training Program	Best construction practices for Unskilled Labours	8-11-2012	Self	40

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

Details of Prioritized Research Areas and expertise Available

Sr. No.	Department.	Prioritized research areas	Expert faculty available.
1	Mechanical Engineering	Mechanical-Design Engineering	Prof. N. S. Hanamapure Prof. V. R. Gambhire
2		Mechanical –Experimental Stress Analysis	Prof. N. S. Dharashivakar Prof. P. J. Patil
3		Mechanical – Micromachining.	Prof. A. S. Todkar Prof. A. R. Shinge
4		Mechanical – Thermal	Prof. G. S. Kamble Prof P. V. Mulik
5		Mechanical – Production	Prof. M. R. Jadhav
1	Computer Science and Engineering	Network Engineering / Operating System	Prof. A.G.Patil
2		Distributed Computing, Data Mining	Prof. G.V.Patil
3		Software Testing, Paralle Processing,	Prof. R.B.Patil
4		Images Processing, Algorithm	Prof. S.A. Urabinahatti
5		Information Retrival	Prof. D. B. Mirajkar
6		Database, Database Security	Prof. K. K. Awale
7		Network Security	Prof. S. R. Shetake
8		Images Processing, Database Engg.	Prof. Manjunath R.H.
1	Electronics Engineering	Digital Signal Processing	Prof. D. G. Chougule Prof. R. T. Patil
2		Embedded Systems	Prof. D. G. Chougule Prof. A. S. Mali
3		Wireless communication	Prof. S. S. Patil Prof. S. D. Bhopale
4		Antenna	Dr. B. T. Salokhe
5		Power Electronics	Prof. R. T. Patil
6		Instrumentation	Prof. C. P. Shinde
7		Digital Systems and Microprocessors.	Prof. C. P. Shinde Prof. S. H. More
1	Chemical Engineering	Separation Techniques	Dr.S.V.Anekar
2		Distillation	Prof. N.H.Shinde
3		Reaction Engineering	Prof. J.K.Shinde
4		Process Dynamics & control	Prof. S.A.Desai
5		Heat Transfer	Prof. K.I.Patil
6		Process Equipment Design	Prof. V.A Bhosale

1	Civil Engineering	Construction Management	Prof. B. V. Birajdar Prof. G.N.Kanade Prof. S. S. Chavan
2		Structural Engineering	Prof. L. B. Patkure Prof. A.S. Kharade Prof. I.A. Mursal Prof. A.R Chougale
3		Surveying & GIS	Prof. R. V. Kajave Prof. A.V. Hankare
4		Geotechnical Engineering	Prof. S. B. Kumbhar
5		Concrete Technology	Prof. S. B. Patil
6		Earthquake & Dynamics	Prof. V. J. Yadav
7		Building Material	Prof. J. S. Patil
8		Environmental Engineering	Prof. B. R. Bagane
9		Water Resource Engineering	Prof. R. B. Patil

- The 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 e-journals which provide the need of the research. Good reference books are also available in the central 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 participants 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 cocurricular activities for students.
- Institute has been recognized as Remote centre by IIT Bombay and IIT Kharagpur which gives opportunities to the faculty to interact with researchers in diverse fields.

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

Sr. No.	Date	Name of the Academicians. Scientists	Institution/Industry	Purpose of Visit
1	27-Oct-15	Mr. Girish Pai	HR, L & T, Pune	Interaction with Staff



2	16-Oct-15	Dr. A. A. Utpat	Vice Principal & Professor FAB Tech,	Expert Lecture on “ Solid
3	10-Oct-15	Dr. D. D.Shaha	Professor, GH Rasoni COE, Pune	Discussion with students on
4	03-Oct-15	Prof. A. O. Mulani	Professor, SCOE, Pune	Research in Micro Controller
5	12-Sep-15	Shri. Abasaheb Kale	Vice President Marsh Risk Consultant,	EUREKA 2K15 Valedictory
6	02-Aug15	Mr. Omkar Shinde	Researcher, IIT Kharagpur	Expert Lecture on Environment
7	30-Jul-15	Mr. Nitant Joshi Mr. Milind Deshpande	Sr. Executives, Persistent, Pune	Personal and technical Interviews
8	31-Jul-15	Mr. Derek Mascarenhas	Black & Veach Group, Mumbai	MESA, Inaugural
9	28-Jul-15	Dr. Pramod Bhalerao	Director, EUREKA DOORS	Interaction with students on a
10	14-Mar-15	Shri Ujjwal Nikam	Special Public Prosecutor	Annual Social Function
11	17-Mar-15	Dr. S. G, Joshi	Department of Mechanical	Expert Lecture on “DFMA” for
12	28-Feb-15	Mr.AkashKumar	Wisdom Ware Technology, New Delhi	META Botics and Robotics
13	27-Feb-15	Dr. Vivek V. Buwa	Professor, IIT Delhi	Research and career opportunities of chemical engineering, Different courses offered in various IIT and NITs
14	24-Feb-15	Shri. Rajaram Lokhande	Officer on Special Duty, Urja 4	Current Scenario in Power Sector
15	21-Feb-15	Dr. S. N. Talbar	Professor, Department of E&TC, SGGS Nanded	Research in DSP
16	21-Feb-15	Shailesh Jadhav	TCS, Pune	Interaction session of Campus selected students

17	21-Feb-15	Ashitosh Shedage	Black & Veatch Group, Mumbai	Interaction session of Campus selected students
18	21-Feb-15	Vibhushan Jadhav, Akshay Kumbhar	TICB, Mumbai	Interaction session of Campus selected students
19	09-Feb-15	Shri Mahesh Bal	Bosch India Ltd; Pune	Supply Chain Management
20	31-Jan-15	Dr. R. B. Ingale	Professor Cummins of Engg., Pune	Expert Lecture on “FEA” for PG Students
21	30-Jan-15	Dr. Sanjay Mahajani	Professor, IIT, Bombay	Visit to Joggary Project
22	28-Jan-15	Dr. K. Shrinivas	Professor, BITS, Goa Campus	Expert Lecture on Industrial Knowledge and career opportunities in Chemical Engineering
23	14-Jan-15	Shri Mansing Lingrus	GATE Forum	GATE Examination
24	12-Nov14	Dr. V. M. Phalle	Department of Mechanical Engineering, V.J.T.I., Mumbai	Expert Lecture on “ESA” for PG Students.
25	02-Oct-14	Prof. V. Anant Chipade	Department of Mechanical Engineering, BMIT, Pune	Expert Lecture on “ADE” for PG Students.
26	01-Oct-14	Shri Amit Phadake, Shri Rajesh Tahasildar	SKF, Pune	One Day Workshop on Bearings
27	16-Sep-14	Dr. D. B. Talange	Professor, Department of E&TC, COE, Pune	Need of Research in Digital communication
28	16-Sep-14	Dr. V. Y. Dev	Professor, PICT, Pune	Recent Research in Mobile Communication
29	12-Sep-14	Dr. A. A. Patil	Professor, Malegaon Collge of Engineering, Baramati	Opportunities in research in advance digital signal processing

30	23-Aug14	Mr. Ankur Sinha Mr. Suyog Bhandekar	Tata Consultancy Services, Pune	ACES Inauguration
31	23-Aug14	Dr. C. V. Rode	Chief Scientist, NCL, Pune	Expert Lecture on Various Research fields in Chemical Engineering
32	18-Aug14	Mr. R. R. Gaikwad	Chief Manager, Deepak Nitrite PVT. Ltd., Roha	Guest Lecture on Safety act and manpower handling and various opportunities
33	13-Aug14	Mr. Sanjay P. Gawade	Certified Energy Auditor, Nasik	Energy Conservation and Energy Management, PLC and Automation
34	12-Aug14	Mr. Tushar Gulhane	I-GLOBAL Solution, Pune	CAD/CAM Techniques used in Industries
35	31-Jul-13	Prof. C. P. Murgudkar	Industry Valuator and Consultant Kolhapur	Creativity awareness among the students
36	30-Jul-13	Mr. Menash Elijah, Kaustubh Panase, Karan Kamble	I-GLOBAL Solution, Pune	Opportunities for Mechanical Engineering students
37	29-Jul-14	Mr. Raju Kawale	Consultant for MPSC and UPSC examination, Warananagar	Competitive Examinations
38	14-Jun-14	Dr. G. D. Yadav	Former Director and R T Mody Distinguished Professor of Chemical Technology, Jagdish Chandra Bose National Fellow, Dept of Science & Technology, GOI, Vice Chancellor ICT, Mumbai	DTE Admission Procedure

39	15-Mar-14	Mrs. Aishwarya Deshmukh	Manager, Aishwarya Food Processing, Kolhapur	Expert Lecture on Challenges in Establishing Food Processing Industry
40	25-Feb-14	Dr. M. K. Nalawade	Department of Mechanical Engineering, Vishwakarma Institute of Information Technology, Pune	Expert Lecture on “ASM” for PG Students.
41	30-Jan-14	Shri. Suhas Gadekar	Prolific Systems and Technologies Pvt. Ltd, Pune.	Advances in Mechanical Engineering
42	23-Jan-14	Prof. V. B. Devarchetti	Government College of Engineering, Pune	Expert Lecture on “ATV” for PG Students
43	20 Jan 14	Dr. Anil Kakodkar	Former chairman of the Atomic Energy Commission of India, Former Secretary to the Government of India & Former Director of the Bhabha Atomic Research Centre, Trombay	Science Park & Department visit
44	19-Dec-13	Shri. Rajesh Tope	Minister Higher and Technical Education, Government of Maharashtra	43 <sup>rd</sup> ISTE National Convention
45	05-Oct-13	Mr. Vishwas Patil	Head Seema Bio-Tech	Guest Lecture on Plant Bio-Technology
46	22-Aug13	Mr. Sandesh Mane	Scientist ISRO, Hyderabad	Opportunities in Research in ISRO
47	29-Jul-13	Dr. Bhimarya Mhetri	Dean, IMI New Delhi	Interact with faculty, Students and Management of the Institute
48	25-Mar-13	Dr. D. Jayadevappa	HoD, Instrumentation Dept., JSS AIT, Bangalore	Need of Instrumentation

49	23-Mar-13	Dr. M. Karthikeyan	NCL, Pune	Guest Lecture on Chemo Informatics
50	01-Mar-13	Mr. Mandar Deshpande	Marketing manager GATE Forum, Kolhapur	Competitive examinations
51	29-Jan-13	Prof. B.D.Kelkar	Director of M/s. Educational and Engineering Equipment (EEE), Pune	Innovative Techniques
52	14-Jan-13	Mr. Prasann Joshi, Mr. Arvind Shiralkar	Manager CAD/CAM/GURU from Pune	Training and automation using CAD/CAM/CAE
53	12-Sep-12	Mr. Sanjay Gulbani	Teacher, Art of Living, Mumbai	Youth and Today's India
54	21-Aug-12	Mr. Ankur Sinha	HR Tata Consultancy Services, Pune	TCS Campus Preparation
55	25-Feb-12	Dr. R. Murugesan	President, ISTE New Delhi	ISTE Convention
56	13-Jan-12	Mr. Santosh Katkar	Inspector, RTO Dept. Kolhapur	Road safety program
57	10-Aug-11	Dr. John D'souza	Principal TKPC	Expert Lecture on Bio-Technological perspectives in Pharmaceuticals
58	30-Jul-11	Shri. R. C. Khanna	KOEL, Kagal Plant Executive Manager	MESA Function
59	15-Mar-11	Mr. Sandip Salokhe, Mr. Basavraj Awati	MITCON, Kolhapur	Entrepreneurship Development Program
60	29-Jan-11	Mr. Asif Mulla	Sr. Software Developer, Cognizant, Pune	Expert Lecture on Recent technology awareness
61	25-Oct-10	Mr. Milind Deshpande	India Soft Technologies Pvt. Ltd., Pune	Training Program on WITNESS
62	05-Sep-09	Dr. Shivajirao Bhosale	ISRO, Scientist	Regarding Energy concept

63	3 Mar 09	Dr. A. P. J. Abdul Kalam	11th President of India from 2002 to 2007	Celebration of Golden Jubilee function of Warana Complex
64	11-Apr-97	Dr. M. M. Sharma	Ex. Director UDCT Mumbai	Annual Social function

**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?**

The institute grants leaves for more than 35% faculty for completion of their PG and Ph.D. research projects. This faculty are actively involved in organizing seminars / workshops / paper presentation competitions in their research areas. This helps the institute in creating research culture among students and young faculty.

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

The institute organizes National level project exhibition and invites the students from various institutes.

**Details of Initiatives taken by the institution creating awareness of research**

Sr. No.	Name of projects implemented in practice/awareness programme	Details and year of implementation
1	Project presentation Competition, Demonstration of last year projects under a National event 'JIDNYASA' Starting year – 2013	In Second semester of each academic year (February/ March)
2	Industrial Problem Solver Competition, Solutions to various industrial problems are analyzed through a competition under an event 'JIDNYASA'; Starting year – 2013	In Second semester of each academic year (February/ March)
3	Webinar series by IUCEE a. Project Management: Knowledge, Curriculum Design, and Skills Development. b. Draft Policy on Internet of Things" 2015	28 July 2015

4	Heat Transfer Augmentation	19 March 2014
5	Extended field Trials on Jaggery Process and Product Improvements (Project)	2012-13
6	Introduction to Research Methodology	14-16 Oct. 2010
7	Spray Dryer	07 July 2009

### 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 development, publication and training is stated as below,

Sr. No	Details of Expenditure	2010-11	2011-12	2012-13	2013-14	2014-15	Amount (Rs)
1	Faculty Development Programme, Faculty Publications & Training, R&D	Rs. 2,00,000	Rs. 2,00,000	Rs. 3,00,000	Rs. 3,00,000	Rs. 3,00,000	Rs. 13,00,000

For the enhancement of research, the 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 research work.

Details of amount spent on the library resources are given below

#### Purchase of PG Reference Books:

Sr. No	Year	Civil Engineering (Rs)	Mechanical Engineering (Rs)	Chemical Engineering (Rs)	Electronics Engineering (Rs)	Total Amount (Rs)
01	2014-15	9,757	29,647	5,956	65,130	1,10,490
02	2013-14	50,291	29,632	38,295	30,237	1,48,455
03	2012-13	1,74,517	2,12,348	1,26,661	1,00,686	6,14,212
04	2011-12	1,33,966	47,600	73,071	24,500	2,79,137
05	2010-11	1,02,500	64,400	1,43,500	83,500	3,93,900
<b>Grand Total (Rs)</b>						<b>15,46,194</b>

**Expenditure Details for Print and e- Journals are as below:**

Sr. No	Year	Civil Engineering (Rs)	Mechanical Engineering (Rs)	Chemical Engineering (Rs)	Electronics Engineering (Rs)	Total Amount (Rs)
1	2014-15	1,80,878	96,910	1,57,768	5,65,150	10,00,706
2	2013-14	-	-	-	-	-
3	2012-13	1,51,433	79,970	1,76,085	4,70,749	8,78,237
4	2011-12	1,30,000	1,50,000	-	4,00,000	6,80,000
5	2010-11	1,25,000	1,25,000	-	4,00,000	6,50,000
<b>Grand Total (Rs)</b>						<b>32,08,943</b>

**Expenditure Details for Print journals are as below:**

Sr. No	Year	2014-15	2013-14	2012-13	Total Amount (Rs)
1	Civil	17,660	16,577	16,084	50,321
2	Mechanical	22,300	22,300	19,796	64,396
3	Chemical	10,200	10,200	8,416	28,816
4	Electronics	16,000	16,000	30,050	62,050
	<b>Grand Total (Rs)</b>				<b>2,05,583</b>

**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 also.

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

- Institute made a special provision for students to support them financially by giving travelling & boarding allowances when they take participations in any National/State/University level competitions
- Institute allows students to access central library and study centres after working hours.



- Institute provides all research oriented infrastructure along with additional book facility for students
- Institute organizes national level Technical events like ‘EUREKA’ & ‘JIDNYASA’ and provides funds for prizes, certificates and other expenses. The activity is organized as a national level activity. Around **Rs. 5, 00, 000/-** - budget is earmarked every year.
- Institute provides funding to research oriented projects for both UG & PG students
- In Civil Engineering department institute sanctioned **Rs. 10, 000/-** for a UG project on ‘**Earthquake shake table model preparation & Analysis**’
- In Mechanical Engineering department institute sanctioned **Rs. 5, 000/-** for a UG project on ‘**Dead weight pressure gauge tester**’ in testing measurement lab.
- UG students are allotted to work under various funded projects (AICTE) & most of the faculty members assign a part of their Ph.D work to the students.

#### **Details of research projects undertaken in various departments**

##### **Department of Civil Engineering**

<b>Year</b>	<b>Title of Projects</b>	<b>Faculty</b>	<b>Status</b>
2015-16	Seismic qualification of Shree Tatyasaheb Kore Warana Sahakari Sakhar Karkhana, Warananagar	Prof. V. J. Yadav	On going
2015-16	Bond strength of GFRP bars in concrete	Prof. S. B. Patil	On going
2014-15	Seismic performance of Asymmetric structures by using Earthquake shake table	Prof. V. J. Yadav	Completed
2013-14	Durability of GFRP bars in concrete	Prof. S. B. Patil	Completed
2012-13	Replacement of natural sand by artificial sand in concrete	Prof. L. B. Patkure	Completed

##### **Department of Mechanical Engineering**

<b>Year</b>	<b>Title of Projects</b>	<b>Faculty</b>	<b>Status</b>
2014-15	Study of effect of pressure angle on bending stress of helical gear using strain gauge analysis	Prof. P. J. Patil	Completed
2014-15	Desiccant enhanced Nocturnal cooling system	Prof. P. V. Mulik	Completed
2014-15	Analysis of mechanical & machining properties of Al/Sic MMC	Prof. M. R. Jadhav	Completed

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2013-14	Theoretical analysis of Asymmetrical involutes spur gear	Prof. N. S. Dharashivkar	Completed
2013-14	Analysis of double pipe heat exchanger by using Wilson plot technique	Prof. G. S. Kamble	Completed
2013-14	Nocural cooling system for space cooling	Prof. P. V. Mulik	Completed
2013-14	Synthesis & Characterisation of Al/Sic MMC by stir casting process	Prof. M. R. Jadhav	Completed
2012-13	Bending stress analysis at the root of Asymmetrical involutes spur gear using Photo electricity	Prof. N. S. Dharashivkar	Completed
2012-13	Dynamic analysis of helical gear using 3D photo electricity	Prof. P. J. Patil	Completed
2011-12	Bending stress analysis at the root of Asymmetrical involutes spur gear using FEA	Prof. N. S. Dharashivkar	Completed
2011-12	2 D analysis of bending stress at root of tooth of helical gear by using photo electricity	Prof. P. J. Patil	Completed
2011-12	Heat transfer & fluid flow analysis in rotary double pipe screw type heat exchanger	Prof. G. S. Kamble	Completed

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

The institute always promotes inter departmental projects. Faculty and students from different departments within the institute doing a project is our common practice. These inter departmental projects make students to understand and utilize ideas from different field of engineering and sciences.

MIT Boston (US) in association with TATA Centre, IIT Bombay and Entrepreneurship Development cell of T.K.I.E.T., Warananagar conducted a workshop on **“Innovation Fabrication and Entrepreneurship”** during 2-16 July 2015. In this event a group of five students of different departments comprising both boys and girls of different classes worked on a single project. They successfully developed various products and presented in front of other participants and faculty of MIT Boston, USA and T.K.I.E.T., Warananagar.

The students of Civil Engineering in association with students from Biotech & Electronics department undertook a research / design / development based project on “Biogas” & ‘Skin sensor concrete’ respectively. The biogas purification project secured **First Prize in ISTE National Project Competition**’ the project was funded by the institute and local industries.

Faculty of Civil Engineering Prof. R. V. Kajave is doing his Ph.D work in collaboration with Electronics Engineering Department (Title: Techno-Economical feasibility and optimum design of solar flat plate collector with auto tilting mechanism for environmentally sustainable buildings.)

Students of Mechanical and Chemical Engineering department are working on Biodiesel using waste cooking oil under the guidance of Prof. S. V. Kadoli and Prof. G. S. Kamble.

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

The institute prepares special time tables for lab & instrument users, 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 equipment. The lab manuals are prepared including the precautions while handling the instruments. All these documents are circulated to staff and students, so that they can plan their research activities. The time tables of labs are also notified to all.

In addition, the institute allows access to computer laboratories for research after working hours.

#### Facilities in Mechanical Engineering Department

Sr. No.	Laboratory Name	Equipment	Utilization
1	Workshop	Welding Machine, Drilling Machine, Sheet Metal, Carpentry	For final year project of all departments and PG and Ph.D Research projects
2	Machine Shop	Lathe Machine, Milling Machine, Grinding Machine etc.	
3	PG Research Lab	FFT Analyser, Poloriscope	
4	I. C. Engine Lab	VCR Engine, Petrol/Diesel Engines	
5	CAD/CAM/CAE Lab	Modelling and Analysis Softwares.	
6	MQC Lab	CMM Machine	

### Facilities in Civil Engineering Department

Sr. No.	Laboratory Name	Equipment	Utilization
1	Concrete Lab	Compression Testing Machine, Vibrator	For final year project of all departments and PG and Ph.D Research projects
2	Strength of Materials Lab	UTM, Hardness Testing Machine, Impact Testing Machine. Earthquake Shake Table	
3	Computer Lab	Softwares like E-Tabs, STAAD PRO, Auto Cad, etc	
4	Survey Lab	Total Station, Dumpy level,	
5	Geo-Technical Lab	CBR test, Oven, Consolidation test apparatus, direct shear apparatus.	

**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 Civil Engineering Department:

Sr. No	Title of proposal under MODROBS, RPS or any other agency	Funding Agency & Fund received	Year of funding
1	Seismic qualification of sugar factories in western Maharashtra	AICTE New Delhi 18, 90, 000/-	2013-14

#### Details of funds received by Chemical Engineering Department:

Sr. No	Title of proposal under MODROBS, RPS or any other agency	Funding Agency & Fund received	Year of funding
1	Mass Transfer Lab (Spray Dryer)	AICTE, New Delhi 7, 00, 000/-	2007-08
2	Advanced Heat Transfer Lab	AICTE, New Delhi 8, 42, 000/-	2011-12
3	Effluent Treatment of Dairy Waste by Ultra Filtration	AICTE, New Delhi 12, 15, 000/-	2013-14
4	Industry Institute Partnership Cell	AICTE, New Delhi 6, 76, 000/-	2013-14
5	Advanced Chemical Engineering Lab	AICTE, New Delhi 1, 45, 600/-	2013-14
6	Mechanical Operation Lab	AICTE, New Delhi 1, 44, 046/-	2013-14

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**Details of funds received by Mechanical Engineering Department:**

Sr. No	Title of proposal under MODROBS, RPS or any other agency	Funding Agency & Fund received	Year of funding
1	Development of Metrology & Quality Control Lab.	AICTE, New Delhi 12, 00, 000/-	2011-12

**Details of funds received by Computer Sci. and Engineering Department:**

Sr. No	Title of proposal under MODROBS, RPS or any other agency	Funding Agency & Fund received	Year of funding
1	Setup of Advanced Network Technologies Remote And Virtual Lab. As an aid to support Teaching & Learning Network Technologies	AICTE, New Delhi 5, 76, 000/-	2012-13

**Details of funds received by Electronics Engineering Department:**

Sr. No	Title of proposal under MODROBS, RPS or any other agency	Funding Agency & Fund received	Year of funding
	Modelling & Simulation of Wideband Microstrip Antenna for Mobile Communication	AICTE, New Delhi 8, 00, 000/-	2012-13

**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.**

An institute level research committee has been established comprising of senior faculty, academicians, industrialist and scientists to guide, promote and generate innovative ideas for the research projects, those are to be applied for funding through agencies.

**Details of Ongoing and completed research projects**

Name of Proposal	Name of Project Co-ordinator	Dept.	Scheme	Sanctioned Amount Rs.	1 <sup>st</sup> Installment Rs.	AICTE Sanctioned Date
Effluent Treatment Of Dairy Waste By Ultrafiltration	Prof.Dr.S. V.Anekar	Chemical Engg.	RPS	12, 15, 000	11, 15, 000	20-06-2013

Seismic Qualification of Sugar Factories in Western Maharashtra (Kolhapur District) Major Area	Prof. V.J.Yadav	Civil Engg	<b>RPS</b>	18, 90, 000	17, 03, 334	30-06-2013
Modelling & Simulation of Wideband Microstrip Antenna for Mobile Communication	Dr.B.T. Salokhe	Electronics Engg.	<b>RPS</b>	8, 00, 000	7, 66, 667	18-07-2013
			<b>Total Rs.</b>	<b>39, 05, 000</b>	<b>35, 85, 001</b>	

### 3.3 Research Facilities

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

The institute runs PG programs in four departments like Chemical, Civil, Mechanical and Electronics. Presently 32 faculty from various departments are pursuing Ph.D. All the PG students and research scholars are using the following facilities for their research work. Each department has separate laboratory equipped with advanced equipment such as;

#### Major Equipments for Research Work

##### Chemical Engineering Department

Sr. No.	Name of Equipment
1	Water Analyzer Kit
2	pH Meter
3	Orsat Apparatus
4	Polarimeter Set
5	Glass Distillation Set
6	Conductometer
7	Spray Dryer

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8	UV - Spectrophotometer
9	Colorimeter
10	Centrifuge
11	Water Bath
12	Oil Bath
13	Autoclave
14	Rotary Shaker
15	Crystallizer
16	Packed Bed Distillation Column
17	Steam Distillation Unit

### Civil Engineering Department

Sr. No.	Name of Equipment
1	Loading Frame
2	Digital Compressive Testing Machine
3	Digital Universal Testing Machine
4	Shake Table
5	Triaxial Testing Machine
6	STAAD PRO Software

### Mechanical Engineering Department

Sr. No.	Name of Equipment
1	FFT Analyzer with Vibration Exciter
2	Diffused Light Polar scope
3	Stress Freezing Oven
4	3-D Co-ordinate Measuring Machine (CMM)
5	Computerised VCR Engine Set up
6	6 Axis Robotics
7	Vibration Lab.
8	Inverted Microscope With LCD Screen
9	Inverted Trinocular Microscope With Accessories
10	Experimental Setup for the analysis of Screw heat Exchanger

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## Electronics Engineering Department

Sr. No.	Name of Equipment
1	Digital IC Trainer
2	Linear System Simulator
3	Frequency Response of Second order system (BODE Plot)
4	PID Controller
5	ARM-7 LPC Trainer Kit with on board
6	Scientific 30MHz CRO
7	AP LAB Power supply

**Apart from above laboratory facilities students and research scholars are taking full advantage of the following ICT facility.**

- Advanced Modelling and Simulation/Design softwares e.g. ANSYS, CATIA MATLAB, Solid Works, Aspen Plus, UniSim, Promax, Stad-Pro, etc.
- 50 Mbps 1:1 leased line with secured 1 Gbps network, numbers of e- recourses, NPTEL Video Lectures etc.
- Wi-Fi Campus by which supporting data needed can be accessed by Internet facility.

A good number of guides within the institute as well as well known institutions from outside are provided to students and research scholars. Management provides good support to R & D activities in the institute.

### **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?**

- Every department is motivating the UG and PG students to take up research/Innovative oriented projects for their partial fulfilment of graduation and post graduation.
- Budget for research projects is submitted to principal through the heads of department. The Principal completes the procedure of sanctioning budget in consultation with heads of department and management authority.
- The students are promoted for the projects in the department by providing the specified facility.
- Institute allows to take co-guide from other well known institutions and industries for the emerging research work 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.**

**List of Projects Sanctioned Under MODROBS, RPS, IIPC of A.I.C.T.E., New Delhi**

**Proposal Sanctioned Year: 2012-13**

<b>Sr. No</b>	<b>Name of Proposal</b>	<b>Name of Project Co-ordinator</b>	<b>Dept.</b>	<b>Scheme</b>	<b>Sanctioned Amount Rs.</b>	<b>1<sup>st</sup> Installment Rs.</b>	<b>AICTE Sanctioned Date</b>
1	Modrobs in Advanced Chemical Engineering Laboratory	Dr. S.V. Anekar	Chemical Engg.	<b>MODROBS</b>	1,45,600	1,16,480	08-08-2013
2	Modrobs In Mechanical Operation Laboratory	Dr. S.V. Anekar	Chemical Engg.	<b>MODROBS</b>	1,44,046	1,15,237	08-08-2013
3	Setup of Advanced Network Technologies Remote And Virtual Lab. As An Aid To Support Teaching & Learning Network Technologies	Prof. A.G. Patil	Information Technology	<b>MODROBS</b>	5,76,000	4,60,800	12-08-2013
				<b>Total Rs.</b>	<b>8,65,646</b>	<b>6,92,517</b>	
1	Effluent Treatment Of Dairy Waste By Ultrafiltration	Dr. S.V. Anekar	Chemical Engg.	<b>RPS</b>	12,15,000	11,15,000	20-06-2013
2	Seismic Qualification of Sugar Factories in Western Maharashtra (Kolhapur District) Major Area	Prof. V.J.Yadav	Civil Engg.	<b>RPS</b>	18,90,000	17,03,334	30-06-2013

3	Modelling & Simulation of Wideband Microstrip Antenna for Mobile Communication	Dr.B.T. Salokhe	Electronics Engg.	<b>RPS</b>	8,00,000	7,66,667	18-07-2013
				<b>Total Rs.</b>	<b>39,05,000</b>	<b>35,85,001</b>	
1	Industry Institute Partnership Cell	Prof. S.T. Patil	Chemical Engg.	<b>Industry Institute Partnership Cell</b>	6,76,000	5,88,000	31-07-2013
				<b>Total Rs.</b>	<b>6,76,000</b>	<b>5,88,000</b>	
				<b>Grand Total Rs.</b>	<b>54,46,646</b>	<b>48,65,518</b>	

**Proposal Sanctioned Year : 2011-12**

Sr. No	Name of Proposal	Name of Project Co-ordinator	Dept.	Scheme	Sanctioned Amount Rs.	Received Amount Rs.
1	MODROBS In Advanced Heat Transfer Lab.	Dr.S.V. Anekar	Chemical Engg.	MODROBS	8,42,000	8,42,000
2	Development of Metrology & Q.C. Lab.	Prof.V.R. Gambhire	Mechanical Engg.	MODROBS	12,00,000	12,00,000
				<b>Total Rs</b>	<b>20,42,000</b>	<b>20,42,000</b>

**Instrument / Facility created:**

Sr. No.	Departments	Funding Source	Instrument / Facility
1	Chemical Engg.	MODROBS & RPS	Spray Dryer, Computerized Controlled double pipe heat exchanger for Augmentation techniques
2	Mechanical Engg.	MODROBS	3-D Co-ordinate Measuring Machine (CMM)
3	Civil Engg.	RPS	Shake Table
4	Computer Sci. & Engg.	MODROBS	Remote & Virtual Lab

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5	Electronics Engg.	RPS	Digital IC Trainer, Linear System Simulator, Frequency Response of Second order system (BODE Plot), PID Controller, ARM-7 LPC Trainer Kit with on board, Scientific 30MHz CRO, AP LAB Power supply
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**3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?**

- The institute encourages students and research scholars to visit different institutions and industries like NCL Pune, IIT Bombay, ARAI Pune, TATA Motors Pune, Dr. Nano's Laboratory Ichalkaranji, Laxmi Oil Pumps & Systems Pvt. Ltd. Solapur, Kalyani Hayes Lemmerz Ltd. Pune, PG Lab of Walchand College of Engineering Sangli, Infosys Pune, MIDC Lote, Mahad and Roha, etc.
- The institute deputed faculty for Ph.D at various IITs and other renowned institutes.
- The institutes sponsor students for participating in technical competitions and 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 library.

- Library has good reference books and National and International journals
- The institute library provides free access to e-journals like Science Direct, NPTEL Videos, Infosys Webinars, Springer-link, IEEE etc.
- Automotive Research Association of India (ARAI) Library, Pune Educational Membership.
- Information and Library Networking (INFLIBNET) : Ten user connections are made available through adjoining institute (Y.C. Warana Mahavidyalaya) is available for faculty and students.

**Statement of PG Books**

Sr. No	Types of Books	2010-11	2011-12	2012-13	2013-14	2014-15
1	PG Books as per syllabus	357	362	371	409	397

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### Journals /Periodicals

Academic Year	National Journals/Periodicals	International Journals/Periodicals	E-Journals
2010-2011	111	47	205
2011-2012	111	47	205
2012-2013	77	81	1026
2013-2014	77	81	1026
2014-2015	74	77	1028

#### Digital Library:

A well equipped digital library of 30 nodes having internet connectivity is housed in the central library for access to e-journals, e-books, NPTEL video Lectures and other e-publications. The access facility to e-journals is multiuser and IP address-based; the students and staff can access the e-publication from anywhere in the campus with the Wi-Fi facility.

#### E-journals Packages include:-

- 1] IEEE (ASPP)
- 2] ASCE
- 3] Springer (2)
- 4] Science Direct (2)
- 5] j-Gate
- 6] McGrawHill Access Engg.
- 7] ASTM DL

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

The department of Chemical Engineering has collaborative work with IIT, Mumbai for the product development of Jaggery production. A Pilot plant capacity of 1 Ton/Day is setup in the premises of T.K.I.E.T., Warananagar under Rajiv Gandhi Mission funded project in the academic year -2014-15. A Lot of laboratory work is to be carried out for process design development in Chemical Engg.Department laboratory.

Under this projects the following equipments are developed as follow,

1. Evaporator.
2. Boiler / electric furnace – pre heater
3. Blower
4. Crystallizer

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### Promax collaborative –USPT & M, Delhi

The department of chemical engineering has collaborative work with USP Trading and Manufacturing Pvt. Ltd. (USPT&M), New Delhi in the area of design, operation, and optimization of some refining facilities by using software of 50 user licences ProMax 3.2 Version.

Operation includes sour water strippers, sweetening, crude fractionation, sulphur recovery, and pipelines, as well as some equipment rating and sizing.

### 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)**

Sr. No.	Details of Patents obtained and filed	Year
1	Prof. A.B Bachche & Prof. N. S. Hanmapure “Design and Development of Solar Assisted Bicycle” App No.: IN-4203/MUM/2015.	2015-16
2	Mr. Vaibhav Pawar; “ Precise Level in Surveying” App no. 3170/MUM/2014.	2014-15
3	Ms. Sonam Chavan, “ Corn seeds sowing and fertilizing machine.” Application No.: 2947/MUM/2013.	2013-14

- **Original research contributing to product improvement**

In collaboration with MIT TATA Centre, Boston and IIT Bombay, students worked on eight different projects which aimed at improving the product of respective field

Sr. No.	Project/Research details	Year
1	Sugar cane Plantation Machine	2013-14
2	Automatic Water tap	
3	Soybean moisture detector	
4	Intelligent light system	
5	Hygro temperature detector	
6	Alcohol Indicator	
7	Sugarcane cutter	
8	Gas detector	

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

Sr. No	Project/Research/ Survey details	Year
1	1000 km road survey Project by Civil Engineering Department by Prof.B. R. Bagane	2010-11
2	Rain water harvesting by Prof. B. R. Bagane	2013-14
3	Water and Soil quality survey in and around four sugarcane industries by Prof.B.R. Bagane	2012-13
4	Environment impact assessment of traffic sounds on Peth Nerle to Kolhapur highway stretch by Prof.B.R. Bagane	2010-11
5	Extended field Trials on Jaggery Process and Product Improvements by Dr. S. V. Anekar (TKIET) Prof. Narendra Shah (IIT-B) Prof. Sanjay Mahajani (IIT-B)	2013-14

- **Research inputs contributing to new initiatives and social development**

**Research awards by students:**

**Department of Mechanical Engineering:**

Sr. No.	Year	Title	Name of students	Name of Organisation	Rank/Prize
1	2013-14	Design & Development Of Solar Assisted Bicycle	Mr.Ajit Bhagawan Bachche	ISTE GSFC National Award for Best M.Tech Thesis In Mechanical Engineering	First Prize
2	2013-14	Modelling, Design, Development and Testing of Bent Axis Piston Pump	Mr.Doijad Vijay Vilas	AVISHKAR 13-14 Organised By Shivaji University, Kolhapur	Zonal & Interzonal prize
3	2013-14	Onion & Garlic Harvesting Machine	Mr.Suneet Tembare Mr.Nitish Todkar Mr.Pranav Yadav	ISTE National Award for Engineering Degree Students 2013	First Prize

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4	2014-15	Design & Fabrication of Prototype of Intelligent Breaking System	Mr. Shenavi Vinayak Rajendra Mr. Kurane Vishal Krishna	18 <sup>th</sup> ISTE Students National Convention, Punalkulan, Tamilnadu	Maharashtra State Design award: Second Prize
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**Department of Civil Engineering:**

Sr. No.	Year	Project Title	Name of students	Name of organisation	Rank/Prize
1	2014-15	Production of BIOCNNG from pressmud	Chinmay Sawant, Akshay Patil, Abhijit Redekar, Joseph George Mahesh Kharade	ISTE Student convention, Rajkot, Gujrat	National Award for Best BTech Project-Civil Engg.
2	2013-14	Floating Concrete	Mr. Amol O. Golatkar, Mr. Bharat N. Bhuiambar, Mr. Shalivan R. Bhosale, Mr. Harish N. Laddha, Ms. Dhanashri V. Asabe	ISTE, 16 <sup>th</sup> ISTE Students National Convention, Periyar Maniyammai University, Vallam, Thanjavur, Tamilnadu	Best B.Tech. Project Award (Civil)
3	2012-13	Analysis of normally consolidated soil for settlement prediction	Mr. Aniket Sawant Mr. Suhas Patil	ISTE, New Delhi at SGI, Atigre	NIT Kozhikode National Award

**Department of Electronics Engineering:**

Sr. No.	Year	Project Title	Name of students	Name of organization	Rank/Prize
1	2014-15	3D Surface Mapping/Modeling using Ultrasonic Technique	Omkar Padmakar Shinde., Ramesh Rajendra Masal., Dipesh Vilas Shinde	ISTE Student convention, Rajkot, Gujrat	National Award for Best B.Tech Project.

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**Department of Computer Sci. and Engineering:**

Sr. No.	Year	Project Title	Name of students	Name of organization	Rank/Prize
1	2013-14	Onion & Garlic Harvesting Machine	Mr.Sumitkumar Tatya Kambale	ISTE National Award for Engineering Degree Students 2013	First Prize

**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?**

Yes. The Institute Publishes a National research journal named “TECH VISHWA” which is a biannual Journal of Technical Research Papers

Executive Editors		
Dr. S. V. Anekar Principal, TKIET, Warananagar	Prof. A. S. Todkar Mechanical Engineering Department	Mr. A.T. Lad Librarian, TKIET, Warananagar

Editorial Board	
Prof. N. S. Hanmapure	HOD, Mechanical Engg.
Prof. B. V. Birajdar	HOD, Civil Engg.
Prof. S. A. Desai	HOD, Chemical Engg.
Prof. D.G. Chougule	HOD, Electronics Engg.
Prof. A.G. Patil	HOD, Computer Science & Engg.
Prof. P.B. Patil	HOD, Applied Sciences
Prof. V. R. Gambhire	Mechanical Engg.
Prof. D. B. Mirajkar	Computer Science & Engineering
Prof. V. J. Pachupate	Applied Sciences

Advisory Board	
Dr. S. M. Sawant	Dean, RIT, Sakharale
Dr. B.S. Gawali	HOD, Walchand CoE, Sangli



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Dr. M. S. Sohani	Prof, AIT, Belgaum
Dr. U. A. Dabade	Prof, Walchand CoE, Sangli
Dr. M.S. Patil	Dean Academic, GIT, Belgaum
Dr. S. P. Chavan	Professor, Walchand CoE, Sangli

**Publication Policies:**

- Papers submitted for the journal should be original research contribution and should not be under consideration for any other publication at the same time. A declaration is to be made by the Author(s) in the covering letter for same, along with full contact details with e-mail.
- Papers should be written as per the IEEE guidelines
- Paper Themes covered:
  - Nanotechnology/ Smart materials
  - Cutting Edge Technology
  - Artificial Intelligence
  - Manufacturing Automation
  - Automotive Electrons
  - Recent Trends in Thermal and energy Engineering
  - Bio- Mechanics
  - Reverse Engineering
  - Stress Analysis
  - Acoustic and Vibration

**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:**

1. **Dr.S.S.Joshi** “Engineering Chemistry” Publisher-Nirali Prakashan, Pune, Ist Edition, Sept 2014, ISBN978-93-83525-68-3.
2. **A.V. Patil** “Study of the geo-seismology and its effect on the ionosphere”, LAMBERT Academic Publishing, ISBN 978-3-8465-8579-5.
3. **P.J. Patil** “A Textbook of Metallurgy”, 2K Publications, Miraj, ISBN 9788-19307-7795.
4. Chapter included in the book:

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**A.V. Patil** “A search for precursors of Earthquakes from multi-station ulf observations and TEC measurements in India”, Published in book **Frontiers of Earthquake prediction studies**. Ed.-M Hayakawa, Nihon-Senmontoshi-Shuppan pub. Co., Tokyo, 2012, ISBN 978-4-931507-16- 6, pp.700-715.

5. Chapter included in the book:

**Dr. Marku Monis** “English Teachers’ use of Computers in Teaching English at Technical Institutions” in the book ‘Role of ICTs in English Language Teaching and Learning: Observations and Ruminations’, ISBN 978-93-82647-00-3, 2013, Pp. 184-202 ACCESS (An Imprint of Authorspress, Publishers of scholarly books, New Delhi).

**BOOKS REVIEWED:**

- **Prof.A.G.Patil:** Reviewer of Book “Project Management” Publisher: Tata McGraw Hill; 2015.
- **Dr. Marku Monis:** Reviewer of Book “Effective Business Communication” by Dr. M.V. Rodriques, (CIBER), South Asian Journal of Management Research (SAJMR), Vol-6, Issue -2, July 2014, Pp.543-545, ISSN- 0974-763X.

**REVIEWER OF JOURNALS:**

1. **A. S. Kharade:** Reviewer of International Journal of Engineering research and sports science (IJERSS).
2. **S. D. Bhopale:** Editor of STM Journal for the section Telecommunication, Switching Systems and Networks, ISSN 2454–6372, 2015.
3. **M. R. Jadhav:** Co- editor–in-chief International Journal of Advance Scince, Engineering and Technology, ISSN 2319-5924.

**RESEARCH PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:**

**Department of Mechanical Engineering:**

1. Vinay Atgur, “Analogy between thermal conductivity & electrical conductivity for some common liquids”, International Journal of Inventions in engineering and science technology, Volume. 1, Issue1, P-ISSN No. 2454-8111, Pp. 62-69.
2. Vinay Atgur, “Experimental investigation of thermal conductivity of liquids by guarded hot plate method”, International Journal of Innovative research in science engineering and technology, Volume. 4, Issue -11, P-ISSN No. 2347-6710, Pp. 10491-10498.
3. N. S. Hanamapure, “Estimation of Modal Density of Idealized Subsystem (Beam) by Theoretical, Experimental and FEM

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- Method”, International Journal of Engineering Technology, Management and Applied Sciences, Dec 2014, Vol. 2, Issue 7, ISSN 2349-4477, pp.57-64
4. V. R. Gambhire, P. J. Patil, A. V. Patil, “Analysis of Bending Strength of Bevel Gear by FEM”, International Journal of Innovative research in Advanced Engineering, Volume 1, Issue 6, July 2014, ISSN: 2349-2163, pp. 424-429
  5. V. R. Gambhire, P. J. Patil, D. S. Patil, “Finite Element Analysis of Composite Flat C Spring of Car Rear Suspension Under Dynamic Load”, International Journal of Engineering Development And Research, Volume 3, Issue 1, ISSN: 2321-9939, pp. 217-224
  6. M. V. Jadhav, G. S. Kamble, Prof. V. R. Gambhire, “Experimental Analysis of Stress in Real (Preserved) Inact Proximal Human Femur Bone Under Static Load”, International Journal of Advanced Technology in Engineering and Science, Volume No. 03, Special Issue No. 01, March 2015, ISSN (online): 2348 -7551, pp. 1179-1188
  7. M. R. Todkar, A. M. Patil, “An Experimental Study of Thermo Hydraulic Performance of Modified Double Pipe Heat Exchanger Using Mesh Inserts”, International Journal of innovative, Research in Scinence engineering and Technology, Vol. 4, Issue 6, June 2015, ISSN 2319-8753, pp. 4622-4627
  8. M. R. Jadhav, G. S. Kamble, K. D. Joshi, P. V. Mulik, “Process Improvement in Powder Coating Station And Pit Furnace Station in ABC Industry”, International Journal of Informative & Futuristic Research, Vol. 2, Issue 10, 2015, ISSN (Online): 2347-1697, pp. 3638-3643
  9. N. S. Hanamapure, S. S. Jadhav, “Toroidal Drive System for Vehicle Transmission Control”, International Journal for Scientific Research & Development (ISSN 2321-0613), Vol. 2, Issue 09, December 2014, pp. 77-81
  10. M. R. Jadhav, K. D. Joshi, P. V. Mulik, G. S. Kamble, “Facility layout design improvement in ABC Industry”, International Journal of Advanced Technology in Engineering & Science (ISSN: 2348-7550) Vol. 2, Issue. 1, in September 2014, pp. 96-103
  11. A. S. Todkar, P. R. Patil, P. N. Deshmukh, “Effect of Vibration on Micro-Electro-Discharge Machining”, International Journal of Mechanical Engineering & Technology (ISSN: 0976-6340/6359) Vol. 5, Issue. 7, in July 2014, pp. 80-100
  12. V. V. Patil, A. M. Patil, P. D. Kulkarni, “Design & Development of Bagasse Dryer for modern jaggery house”, International Journal of

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Advanced Research in Science & Engineering (ISSN: 2319-8354)  
Vol. 3, Issue. 1, in September 2014, pp. 599-605

13. V. V. Patil, A. M. Patil, P. D. Kulkarni, "Design & Development of Sunflower seeds extraction machine", International Journal of Advanced Research in Science & Engineering (ISSN: 2349-6495) Vol. 1, Issue. 5, in October 2014, pp. 63-69
14. N. S. Hanamapure, "Effect of Finger Joint on Flexural Strength of Teak Wood", International Journal of Engineering and Technology, Vol.5 No. 6 Jan 2014, PP- 4929-4937
15. N. S. Hanamapure, "Review of Comparison Finger Joint Efficiencies of Wood Species", International Journal of Innovative Technology and Adaptive Management, Vol. 1 Issue 4 Jan 2014
16. N.S.Hanamapure, S.S.Borchate, "Design, Analysis and Performance Optimization of Disc Brake", International Journal of Advanced Engineering Research and Studies, Vol. 3, Issue3/3 June 14, PP- 25-27
17. V.R.Gambhire, "Empirical Study of Mechanical Power Amplifier", International Journal of Advanced Engineering and Technology", Vol. 2., June 14, pp. 55-57
18. A.S.Todkar, "Design, Development and Testing of Bent Axis piston Pump", IJAIEEM, ISSN 2319- 4847, Vol. 2, Issue 12, June 2014, pp. 236-240
19. A. S. Todkar, "Design and Development of SPM for Face Milling and Two Hole Boring of a CR-22 Block", IJIRSET, ISSN 2319-8783, Vol.3, Jan 2014, pp. 8784-8790
20. A. M. Patil, P. B. Kadam, "Vibration Analysis of Bearing using FFT Analyzer", International Journal of Advanced Technology in Engineering and Science ( IJATES), ISSN (online): 2348 – 7550, Volume No.02, Issue No. 04, April 2014, pp-59-69
21. A. M. Patil, "Design of Multi-Axis Welding Positioner with Auto Indexing", International Journal of Innovations in Engineering and Technology (IJIET), ISSN: 2319 – 1058, Vol.3 Issue 3 February 2014, PP- 58 – 64
22. A. M. Patil, V. V. Patil, "Design of facility for measuring and inspection of plate cylinder dimensions and tolerances", international Journal of Advance Research In Science And Engineering IJARSE, ISSN-2319-8354(E), Vol. No.3, Issue No.4, April 2014, PP-103- 112
23. N. S. Hanamapure, Sunil N. Yadav "Analyze the effect of slip angle on fatigue life of wheel rim of passanger car by using Radial

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- Fatigue Testing”, International Journal of Innovative Research in science, Vol-2, Issue 9, Sept. 2013, IJIRSET, pp. 4309-4318
24. Prof. N. S. Hanamapure, Pradeep Pawar, Pankaj Gambhire, “Initial Failure of Lubricating oil pump shaft”, International Journal of Innovative Research in science, Vol-3, Issue 4, Oct. 2013, IJIRSET, pp. 503-508
  25. A. S. Todkar, G. S. Kamble, M. S. Sohani, R. B. Nikam, “Effect of Vibration on EDM process”, International Journal of Engineering And Innovation Technology, Vol 3, Issue-2, 2013 ISSN-2277-3754, pp.270-275
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  35. Kajave R V, 2010. "Total quality management in construction firm", National conference on recent advances in design and manufacturing engineering.

**Summary of faculty publications:**  
**Computer Science Engineering Department**

Sr. No.	Name of Faculty	Journal		Conference		Number of Publications
		N	I	N	I	
1	Prof. Amol Patil	3	1	-	-	4
2	Prof. Ramgounda Patil	-	-	4	1	5
3	Prof.Ganesh Patil	-	-	-	1	1
4	Prof.Manjunath Hudagi	-	3	3	-	6
5	Prof.Sachin Urabinahatti	-	5	3	-	8
6	Prof.Rajkumar C Shikkeri	-	-	1	2	3
7	Prof.Hiregoudar Rudragouda G.	-	1	-	-	1
8	Prof.Kanishka N. Kamble	-	-	1	1	2
9	Prof.Vinod B.Biradar	-	1	-	-	1
10	Prof.Abhijeet T. Sonale	-	-	1	1	2
11	Prof. Jyotsna. N. Mali	1	-	-	-	1
12	Prof. Swapnil S. Matsagar	1	-	1	1	3
13	Prof. Tejaswini P. Patil	2	1	-	-	3
14	Prof.Virendra. C. Patil	-	2	-	1	3
15	Prof. Nitin J. Ghatge		2	1	-	3
16	Prof. Vijay S. Parit	-	1	-	-	1
17	Prof.Satyawan Patil	-	2	-	1	3
18	Prof. Gurunath Machhale	-	1	1	-	2
19	Prof.Abhaysinh Surve	-	2	-	-	2
20	Prof.Teashree.Deokar	-	-	-	1	1
21	Prof. Prachi R. Kushire	-	1	-	-	1
22	Prof.Priyanka N. Patil	-	1	-	-	1
23	Prof. Mirajkar Dinesh B	-	1	6	-	7
24	Prof. Awale Kiran K	-	2	4	1	7
25	Prof. Shetake Sandip R	-	1	4	1	6
26	Prof. Bavane Pallavee P	-	1	2	1	4
27	Prof. Sagare Shitalkumar B	-	1	2	1	4
28	Prof. Farande Simon S	-	-	1	-	1

**Department of Mechanical Engineering:**

Sr. No.	Name of Faculty	Journal		Conference		Number of Publications
		N	I	N	I	
1.	Prof. N.S Hanamapure	-	8	5	-	13
2.	Prof. V. R. Gambhire	-	6	3	3	12
3.	Prof. Todkar A.S	-	11	3	-	14
4.	Prof. P. V. Mulik	-	2	2	4	8
5.	Prof. K. D. Joshi	-	-	-	2	2
6.	Prof. G. S. Kamble	-	5	3	2	10
7.	Prof. Dharashivakar N.S	-	-	2	-	2
8.	Prof. V. N. Mane	-	2	2	-	4
9.	Prof. M. V. Jadhav	-	1	5	1	7
10.	Prof. R. T. Salunkhe	-	4	1	-	5
11.	Mr. P. B. Kadam	-	3	1	-	4
12.	Prof. P. D. Kulkarni	-	2	-	-	2
13.	Prof. A. S. Chavan	-	-	-	1	1
14.	Prof. S. S. Patil	-	-	3	-	3
15.	Prof. M. R. Jadhav	-	-	5	2	7
16.	Prof. A. R. Shinge	-	1	-	-	1
17.	Prof. S. S. Mahadik	-	2	2	-	4
18.	Prof. A. B. Bachche	-	3	10	-	13
19.	Prof. S. M. Gidaveer	-	-	2	-	2
20.	Prof. P. R. Patil	-	1	-	-	1
21.	Prof. R.G. Kshirsagar	-	-	3	-	3
22.	Prof. P. N. Deshmukh	-	1	-	-	1
23.	Prof. M. S. Sawant	-	1	2	-	3

### Department of Electronics Engineering

Sr. No.	Name of Faculty	Journal		Conference		Number of Publications
		N	I	N	I	
1	Prof. D.G.Chougule	-	4	-	-	4
2	Prof. R.T.Patil	-	1	-	-	1
3	Prof. S.S.Patil	-	2	-	-	2
4	Dr. B.T.Salokhe	-	12	2	4	18
5	Prof.B.G.Warvante	-	4	-	2	6
6	Prof. S.D.Bhopale	-	4	-	3	7
7	Prof. A.A.Thorat	-	2	-	-	2
8	Prof.A. S. Mali	-	9	-	5	14
9	Prof. Harsha C.J.	-	-	-	2	2
10	Prof. Sharan kumar	-	9	-	-	9
11	Prof. V.S.Doijad	-	1	-	-	1
12	Prof. P. V. Lokhande	-	1	6	1	8

### Department of Applied Science:

Sr. No.	Name of Faculty	Journal		Conference		Number of Publications
		N	I	N	I	
1	Prof. Dr. S.S. Joshi	-	1	3	-	04
2	Prof. P.B. Patil	-	-	2	-	02
3	Prof T. S. Jangam	-	1	4	1	06
4	Prof. Dr. D.N. Mane	-	1	-	-	01
5	Prof. Dr. V. D. Patil	3	6	6	4	19
6	Prof. Dr. A. V. Patil	-	6	-	-	6
7	Prof. Dr. M. Monis	2	8	2	-	12
8	Prof. Dr. S.S. Desai	2	9	6	1	18

**Department of Chemical Engineering:**

Sr. No.	Name of Faculty	Journal		Conference		Number of Publications
		N	I	N	I	
1	Prof. Dr. S. V. Anekar	2	7	1	3	13
2	Prof S.A. Desai	-	4	-	-	4
3	Prof. N.H. Shinde	-	2	-	-	2
4	Prof S.T. Patil	-	2	-	-	2
5	Prof. K. I. Patil	-	3	-	1	4
6	Prof. N.S.Patil	-	1	-	-	1
7	Prof. P.J.Patil	-	2	-	-	2
8	Prof P. B. Dehankar	-	1	-	-	1
9	Prof. Shilpa Patil	-	2	-	-	2
10	Prof V.J. Pachupate	-	3	2	1	6
11	Prof. S.S. Ghorpade	-	1	1	-	2
12	Prof. S.A. Surnis	-	1	-	1	2
13	Prof. V.J. Gaikwad	-	7	-	-	7
14	Prof. R. D. Kamble	-	3	-	-	3
15	Prof. Sandeep Patil	-	1	-	-	1
16	Prof. M. V. Jamkhani	-	2	-	-	2
17	Prof. P. R. Mathpati	-	1	-	-	1

**Department of Civil Engineering:**

Sr. No	Name of Faculty	Journal		Conference		Number of Publications
		N	I	N	I	
1	Prof.Birajdar B.V.	5	-	-	-	05
2	Prof.Patkure L.B	-	-	-	2	02
3	Prof.Kulkarni M.B.	01	-	-	-	01
4	Prof.Kanade G.N	3	-	-	2	05
5	Prof.Patil J.S.	-	-	3	-	03

6	Prof.Kajave R.V.	15	3	-	-	18
7	Prof.Yadav V.J.	-	-	4	-	04
8	Prof.Patil R.B.	-	-	4	1	05
9	Prof.Patil S.B.	-	-	3	1	04
10	Prof.Mursal I.A.	-	-	1	-	01
11	Prof.Chougule A.R.	-	2	2	-	04
12	Prof.Kharade A.S.	2	13	2	-	17
13	Prof.Chavan S.S	-	-	1	-	01
14	Prof.Hankare A.V	1	-	-	-	01
15	Prof.Sangale J.B.	1	-	-	-	01
16	Prof.Patil A.B.	-	-	1	-	01
17	Prof.Kinayekar S.M.	-	1	-	-	01
18	Prof.Sawant T.S.	-	1	1	-	02
19	Prof.Sanade V.M.		-	1	-	01
20	Prof.Gaikwad C.S	1	-	-		01
21	Prof.Tamboli N.N.	-	-	1	-	01
22	Prof.Shete V.M.	1	-	-		01
23	Prof.Gawade R.S.	1	-	-	-	01
24	Prof.Babar V.T.	1	-	-	-	01
25	Prof.Chandanshive R.R.	1	-	-	-	01
26	Prof. Joshi K.A.	-	-	1	-	01

#### 3.4.4 Provide details (if any) of

- Research awards received by the faculty

Sr. No.	Name of Faculty	Awards	Type	Year
1	Prof. S.V. Lingaraju	Maharashtra State Design award: Design and fabrication of prototype of intelligent breaking system	18 <sup>th</sup> ISTE Students National Convention, Punalkulan, Tamilnadu	2014-15



2	Prof. A. S. Phalle	INSPIRE – The Infosys Campus Connect Faculty Partnership Model	Bronze	2014 & 2015
3	Prof. B. A. Chougule	INSPIRE – The Infosys Campus Connect Faculty Partnership Model	Bronze	2014
4	Prof. Narayan S. Hanamapure	ISTE Best M.Tech Thesis in Mechanical Engg. Award	ISTE Best Thesis Award	2013-14
5	Prof. K.D. Joshi	Award for Project ONIGA	16th ISTE Students National Convention Thanjavur	2012
6	Prof. K.D. Joshi	Second Rank	National Level Project Competition Techno-Champ organized by John-Deere.	2012
7	Prof. Bachche Ajit Bhagawan	Best M. Tech. Thesis Award in mechanical engineering.	ISTE G. S. F. C. National award	2013
8	Prof. Patil Kalyan Ishwar	Honorarium award	Entrepreneurship development M.P. CADMAP	
9	Mr. Kharade Amit Suryakant	Best Paper appreciation for ‘Offshore Engineering’	Best Paper Award	2014
10	Prof.Kajave R.V.	National Award for Best BTech Project (ISTE)	16 <sup>th</sup> ISTE Students National Convention, Periyar Maniyammai University, Vallam, Thanjavur, Tamilnadu	2013
11	Prof.Patil J.S.	National Award for Best BTech Project (ISTE)	ISTE Student convention, Rajkot, Gujrat	2014
12	Prof.Kumbhar S.B.	National Award for Best BTech Project (ISTE)	ISTE, New Delhi at SGI, Atigre	2012-13

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13	Prof. P. D. Salokhe	“STRECH”	Syntel value award	2012
14	Prof. V. B. Biradar	Quality Circle Forum of India, Pune Chapter	Silver	2013
15	Prof P. V. Lokhande	National Conference on Emerging trends in Engineering and Technology	Third Prize for Paper	2013

- **Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**
  - **Prof. T. S. Jangam:** Nominated as a section committee member ISTE for Maharashtra and Goa section.
  - **Prof. A. S. Todkar:**
    - 36. Elected as Associate Member (AM091911-2) of The Institution of Engineers (India).
    - 37. Authorized as Chartered Engineer [India] (AM091911-2) for The Institution of Engineers (India).
    - 38. Fellow member of Institution of Valuer (F-18382).
    - 39. Chartered Valuer (CAT-VII/F-4054) of Indian Institute of Valuer (IIV), India.
  - **Prof. V. M. Shete:**
    - 1. Life member and Chartered Valuer of Indian Institute of Valuer (IIV), India.
    - 2. Elected as Associate Member (AM094038-3) of The Institution of Engineers (India).
    - 3. Authorized as Chartered Engineer [India] (AM094038-3) of Civil Engineering Division for The Institution of Engineers (India).

**Incentives given to faculty for receiving state, national and international recognitions for research contributions.**

### **3.5 Consultancy**

#### **3.5.1 Give details of the systems and strategies for establishing Institute Industry Interface?**

Institute has tie up with various industries. An Institute Industry Interaction cell is setup –in which cell organizes frequent interactions to enhance the industry participation in the academics.

The Institute has MoU with following industries and renowned institutes.

Sr. No.	Name of Industry	Subject / Field of MOU	Date of MOU	Period of MOU
<b>Electronics Engineering Department</b>				
1.	Texas Instruments, India	Instrumentation, Control Systems	30/05/2014	Life Time
2.	Robo-Genesis Bangalore	Robo AVR-Autonomous	21/07/2014	5 Years
3.	IIT, Mumbai	E-Yantra Robotics Lab	Nov. 2013	Life Time
4.	IIT, Mumbai	Akash Tablets for Research	Nov. 2012	Life Time
<b>Mechanical Engineering Department</b>				
1	W.S. Dudh Utpadak Sangh Ltd., Tatyasaheb Korenagar	Refrigeration and Air Conditioning	17/07/2006	Life Time
2	T.K.W.S.S.K. Ltd., Warananagar	Sugar Manufacturing	17/07/2006	Life Time
3	Manugraph India Ltd., Kodoli	Printing Technology	18/08/2006	Life Time
4	Ghatage Patil Industries Ltd., Kolhapur	Foundry	24/02/2009	Life Time
5	Rocket Engineering Corporation, MIDC, Shirol	I. C. Engine	05/03/2009	Life Time
6	Menon and Menon Ltd., MIDC, Shirol	I. C. Engine	05/03/2009	Life Time
7	Mayura Steel, MIDC, Shirol	Foundry and Heat Treatment	06/03/2009	Life Time
8	Menon Bearings Ltd., Gokul Shirgaon, Kolhapur	Bearing Manufacturing	06/03/2009	Life Time
9	Indiasoft Technologies (P) Ltd., Pune	CAD/CAM/CAE	09/10/2009	Life Time
10	Infinite Solutions, Pune	CAD/CAM/CAE	09/10/2009	Life Time
11	Sinhgad College of Engineering, Pune	Academic Interaction	10/10/2009	Life Time
12	Aarya Technologies, Kolhapur	CAD/CAM/CAE	14/12/2009	Life Time

13	Design Guru Consultancy and Services, Kolhapur	CAD/CAM/CAE	02/03/2011	Life Time
14	Gavade Electricals, Nasik	PLC	11/03/2011	Life Time
15	Global Talent Track Pvt. Ltd., Pune	CAD/CAM/CAE	15/07/2013	Life Time
16	Infi DOF Solutions, Bangaluru	CAD/CAM/CAE	28/12/2015	Life Time
<b>Chemical Engineering Department</b>				
1	Finolex Ind. Ltd Ratnagiri	Simulation ASPEN PLUS	2008-09	10 years
2	IIT, Bombay	Extended field Trials on Jaggery Process and Product Improvements	2013-14	10 years
3	BRE, Texas	Promax Simulation software	2013-14	5 years
4	IIT, Bombay	Virtual Lab	2014-15	Life Time
5	Vishwas Shikshan Prasarak Mandal's, Deshmukh Anandrao Balwantrao Naik Arts & Science College, Yashwantnagar, Chikhali	Vocational skill development	2014-15	5 years
6	Goyel IT solutions, New Delhi	Promax Software	2013-14	5 years
7	Upadhye Consultancy, Mumbai	Heat exchanger Model	2014-15	5 years
<b>Computer Science &amp; Engineering Department</b>				
1	Infosys, Pune	Campus Connect Program	24/8/2010	6 Years
2	EMC <sup>2</sup>	Storage Area Network	2011	5 Years
3	Redhat India Pvt Ltd	LINUX	5/9/2009	7 Years
4	Oracle India Pvt. Ltd	Database	10/10/2009	7 Years

These tie-upped industries will enhance the students to have industry oriented knowledge on application of the techniques and to make use of the industrial experts for updating their knowledge. Guest lectures are arranged by the Industry experts frequently for the students to make

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aware of current technologies and best practices. In turns Industrial visits are organized for students for making familiarization of different manufacturing process carried out in industries.

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

The Institute encourages and promotes the consultancy work by facilitating the infrastructures, laboratories and faculty

The Institute always support and encourages sponsored projects, in which faculty and students continuously remain involved with industry people. The institute organizes various programs to promote consultancy like Industry Problem Solver competition in which industry gives real time problems for which students provide suitable and optimal solution. The winning team from each department get funds from the industry to work on the given problem. The institute has R&D cell which has stated policies to invite and conduct consultancy work in various fields. The funds generated through consultancy will be distributed to faculty and department/institute according to the norms of the institute.

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

The institute identifies the faculty expertise and encourage them to involve and to provide consultancy to the industry. Funds generated through the consultancy will be distributed to the faculty and department/institute according to the norms of the institute. The faculty will be provided conveyance and duty leave to visit the industry for consultancy work.

Faculty is permitted to utilize computational and advanced equipments for consultancy work.

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

Sr. No.	Company Name	Title of Service	Year	Amount Received (Rs.)
1	Aspen Plus	Training Program	2003-2009	794000/-
2	Lab Testing	Transportation, Concrete Cube Testing and Material Testing Environment lab	2011-2012	154122/-
3	Lab Testing	Transportation, Concrete Cube Testing and Material Testing	2012-2013	9000/-

4	Lab Testing	Transportation, Concrete Cube Testing and Material Testing	2013-2014	7000/-
5	Lab Testing	Transportation, Concrete Cube Testing and Material Testing	2014-2015	9000/-
6	X-Innovation, Pune	Vibration Measurement of Milling Machine by using FFT	2014-2015	7, 000/-
7	Kolhapur Institute of Technology, Kolhapur	Stress analysis of involutes profile & cosine Gear by using Photoelastic techniques	2014-2015	5, 000/-
8	ANSYS APDL 15.0	ANSYS Training Program	2015-2016	25, 000/-
9	Tata Consultancy Services Ltd Online Exam	Bank Of Maharashtra	2012-2013	5150/-
		Thane Janta Sah Bank		7150/-
		CWE IBPS		17708/-
		IITB GATE 2013		159447/-
		LIC		92998/-
		CWE IBPS		90667/-
10	Tata Consultancy Services Ltd Online Exam	DTE MCA Entrance	2013-2014	32145/-
		CWE IBPS		205003/-
		TJSB		7300/-
		Mahavitran		61450/-
		IITB GATE 2014		616150/-
		TCS Of Campus		33000/-
		DTE Pharmacy Exam		46000/-
		Mahavitran		86000/-
		Unisafe Online Campus		26750/-
		SBI PO EXAM		346719/-
		IBPS PO Exam		146570/-
		CAT Exam		34000/-
		IBPS Clerical Exam		135000/-
		IIT GATE 2015		310430/-
10	Tata Consultancy Services Ltd Online Exam	Jee main	2014-2015	5600/-
		Railway Exam		286700/-
		Mahavitran		1260000/-
11	Maharashtra Knowledge Co-LTD Online Exam	DTE PG ET-CET	2013-2014	68700/-
12	Aptech Online Exam	AICTE CMAT EXAM		50000/-

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13	Aptech Online Exam	AICTE CMAT EXAM	2013-2014	64800/-
		AICTE GPAT EXAM		64800/-
			<b>TOTAL</b>	<b>5429689/-</b>

**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. The amount generated for any specific work is proposed to be distributed as per the following institute guidelines.

**TYPE-I WORK: Testing work only:**

A) Department development – 60%

B) Staff – 40%

This 40% may be distributed amongst the following staff as below:

Principal	2%
HOD	4%
Office	1%
Staff incharge	16%
Lab Asst. Incharge	10%
Peons for carrying out the work	6%
R&D Cell	1%

**TYPE-II WORK: Testing and Consultancy work:**

A) Department development – 50%

B) Staff – 50%

This 50% of staff fund may be distributed amongst the following staff as below:

Principal	2%
HOD	4%
Office	1%
Staff incharge	26%
Lab Asst. Incharge	10%
Peon/peons for carrying out the work	6%
R&D Cell	1%

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### **3.6 Extension Activities and Institutional Social Responsibility (ISR)**

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

- The institute management always motivates students and faculty participation in social activities and drives for adhering to ethical values.
- Social activities like Lek Vachwa Abhiyan, (Save the Girl Child), blood donation camps, tree plantation, Swachcha Bharat Abhiyan, Sadbhavna Doud are organized by the students
- An awareness lecture on family planning, AIDS information, Disaster Management training in near by villages, computer education for primary school students, hemoglobin check up are organized by the students.
- Faculty members and students visit the Warana Matimand Vidyalaya (School of handicapped) and help them by donating money.
- The institute management provides college playground (Shivneri) to neighboring communities on weekends and allowing for hosting sports to Shivaji University and nearby institutions.
- Conduct the flag hoisting ceremony at Independence Day, Republic Day involving the NSS students, local government authorities and guests.
- Organize events like Eureka and Jidnyasa which bring students of various colleges and give them a platform to showcase and share their technical ideas.
- **Village Adoption**

The NSS unit of the institute has been working with full enthusiasm. Through this the energy of students is turned in to creative force to steer in social change by adoption of village. The computer literacy, woman awareness, health and hygiene, disaster management, plastic ban, tree plantation etc. activities are performed.

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

- In each department, a faculty member is assigned the responsibility of making the students to get involved in social service activities.



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- Students submit certificates and attendance of participation in social activities to respective departments.
  - Institute has mentor (faculty advisors) scheme through which the students' involvement in various social activities are observed.
  - Mentors record the student achievement in such extension activities in the respective advisor files.
  - The institute has motivated the students to maintain "NO VEHICLE DAY" by avoiding the use of vehicle in the campus.
  - Extracurricular activities and value education provide avenues to students to become aware of the social environment, the social evils, citizen responsibility and individual contribution to make the society a better place to live in.

### **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. The management has developed evaluation tools for stakeholders to record their opinions, suggestions and objections for constructive developments for future. The institute is highly concerned about its stakeholder which includes students, parents, staffs, alumni and the companies visiting the campus for recruiting the students

#### **Students:**

- The institute has counselling cell in which faculty act as a mentor for 20 students. Suggestions/ complaint box are placed at various places on the campus which are easily accessible to students.
- Students have the freedom to approach the Class Co-ordinator/ HOD/Principal during working hours without prior appointment for their problems.

#### **Parents:**

- Teacher/ Head of department/Principal interact with guardians regularly.
- They are informed about academic performance and attendance records of their wards through meetings, letters, SMS and phone calls.
- Direct interaction of the guardians with the HOD is also encouraged.
- Opinion of parents with respect to various aspects such as planning of extra-curricular activities, cultural programs etc are valued.

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- Parents of any student are allowed to meet the teachers, coordinators and Principal for any suggestions or complaints.

**Staff:**

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

**Alumni:**

- The institute has established an alumni association. Which organizes 2 alumni meet in year in the college campus and has regular formal and informal interactions with students and faculty wherein any alumni are free to give their suggestions?
- The institution through its Alumni Cell conducts alumni meets on regular intervals at various metropolitan cities where most of the alumni are placed. This helps the institute to elicit valuable feedback from the alumni about the industry as well as their perception of their alma mater.

**Industries:**

- The institute has Industry –Institute- Interaction Cell which organizes industry-institute meet once in a year in the college campus. It has regular formal and informal interactions with students and faculty wherein any invitees are free to give their suggestions for curriculum development as well as on the expectations of parent industry from the students.
- Memoranda of Understanding are signed with industries to conduct value added programs, internship, projects and so on.

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

The Institute frequently organizes a number of academic, social, cultural, community services, and adventure activities resulting in building a healthy society contributing ultimately to the nation building. The college with the help of many voluntary organizations and NGOs organizes the outreach programs and such activities help to improve the lifestyle of the community, particularly in rural areas and create scientific temper among the rural population.

These programmes have brought out the awareness about higher education and the existence of the institution in the surrounding area. The institute has its own budget for the programs. Apart from this, the

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institute applies for funds from 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.50,000 funds for conducting NSS camp and related activities.

### **Digital India**

The institute conducts “**Digital India Week**” during **1<sup>st</sup> to 8<sup>th</sup> July 2015** in association with, IIT Bombay, MHRD, Govt of India, AICTE and DTE-etc by conducting various activities in our remote center and details are given below.

- Digital Locker Facility center was inaugurated on 2nd July 2015 at the hands of Hon'ble secretary shree warana vibhag shikshan mandal, warananagar in the presence of HoD's and senior staff.
- On 3rd July 2015 one day Aview workshop on "Digital India Week" by IIT Bombay and MHRD, NMIECT at our Remote center, Workshop Coordinator-Dr.D N Mane, Dr.A.V.Patil, with 135 students and 50 staff members.
- On 6th July 2015 one day workshop on "Digital India Week" at our remote center, Workshop Coordinator-Prof.D.N.Bhosale (YC Warana), with 150 students and 30 staff members.
- On 7th July 2015 one day spoken Tutorial workshop on "Digital India Week" by Spoken Tutorial at our Remote center, workshop Coordinator-Prof.D S Mane, Prof.R.B.Patil, with 245 students and 60 staff members.
- On 8th July 2015 one day AICTE /DTE workshop on "Digital India Week" by NIC&MHRD at our remote center, workshop coordinator- Prof.D S Mane, Prof.R.B.Patil Prof.D S Mane with 220 students and 45 staff members.

Our institute has been recommended as a Remote center for various educational and research centers given below,

- ID-1028 for NMEICT.MHRD/IIT Bombay/IIT Kharagapur
- ID-MAH002 for Spoken Tutorial Project.
- ID-1028 Akash Project.
- ID-1083 AICTE Exam Center.
- ID-2059 DTE Exam Center.

### **Vinay Kore Career Academy**

A sister organization of the institute having an objective to provide academic facilities to the aspirants of admin exams. The academy aims to create awareness and interest among students about civil services and increase percent of youth in nearby village in UPSC and MPSC.

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The career academy has been conducting coaching/ training programmes for civil service examination for all students.

#### **ISTE- Convention**

The institute organized 43<sup>rd</sup> National Annual Convention of ISTE, New Delhi on 19-21 Dec 2013. The theme of the convention was “Empowering the technical education to address the sustainability & global competitiveness”. The Convention aimed to bring all the eminent personalities in the field of technical education to share their views and experiences and to find solution to the challenges faced by the technical education in India.

#### **Surajya Foundation**

Surajya Foundation is NGO which creates an awareness regarding the state and civil services examinations in rural area. It organizes annual felicitation programme for all the successful candidates in MPSC and UPSC examinations. All the students of nearby educational institutes and public attend this function. Its benefits are reflected in terms of increasing number of successful candidates in competitive examination every year.

#### **Department of Computer Science and Engineering**

<b>Academic Year</b>	<b>Extension and Outreach programmes</b>
2012-13	Conducted one week Basic Computer Course for ITI, Students
2013-14	Conducted one week Basic Computer Course for Tatyasaheb Kore Military Academy Students
2014-15	Conducted one week Basic Computer Course for Tatyasaheb Kore English Academy Students
2015-16	Conducted Moodle Test and awareness program for regarding technical education of all branches for HSC students in colleges of nearby villages.

#### **Department of Chemical Engineering**

<b>Academic Year</b>	<b>Extension and Outreach programmes</b>
2010-11	Need of specialisation to meet industry needs and aspirations to enhance placement opportunity of the students
2011-12	Life style management and vital point in counseling students
2012-13	Role of Chemical Engineers for modern society
2013-14	A two day workshop on “UNISIM” The resource person was Mr. Sandeep Gundap
2014-15	A special guest lecture “The Various Research Fields In Chemical Engineering” The resource person were Dr.C.V.Rhode, Chief Scientist, NCL Pune

### Department of Mechanical Engineering

Academic Year	Extension and Outreach programs
2010-11	A special guest lecture on “Port Management” by Mr. R.K. Gurav., JNPT
2012-13	A special guest lecture on Energy Management and Audit by Mr. Ashok Buva, Certified energy auditor.
2012-13	The students participated in Road Safety Programme
2013-14	Conducted one week AutoCad Course for ITI, Students
2014-15	One Day Workshop on “SKF Bearings” by SKF bearing training team comprising Shri Amit Phadke, Shri Rajesh Tahasildar
2015-16	Art of Living, Youth and Today's India by Mr. Sanjay Gulbani

### Department of Electronics Engineering

Academic Year	Extension and Outreach programmes
2010-11	A special guest lecture “Entrepreneurship Awareness” program in association with MITCON, Pune
2011-12	Microcontroller and its applications
2012-13	A special guest lecture “Present Scenario of Electronics & IT Industries. Importance of GDP” The resource person was Mr. Parikshit Dalavi
2013-14	A special guest lecture “ISRO” The resource person was Mr. Sandesh Mane Junior Scientific Officer, ISRO Hyderabad
2014-15	A special guest lecture on Embedded System

### Department of Civil Engineering

Academic Year	Extension and Outreach programmes
2010-11	A guest lecture “Concrete Mix Design”
2011-12	A guest lecture “A goal setting and career development programme”
2012-13	One Day Workshop on “Best construction practices for skilled labour”
2013-14	One Day Workshop on “Quality Construction” in joint collaboration with Warana Bazar and ACC Cement Company
2014-15	A special guest lecture “Personality Development & Communication Skills” The resource person were Mrs Preeti Patil, HR Manager, B& M Infra Pvt. Ltd., Pune

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

**National Service Scheme:**

The institute's NSS unit has a NSS Advisory Committee which designs the future plan of activities for every academic year through a meeting with the College Advisory Committee in the month of July. The future plan of activities includes the institutional work, community work and the Special Camping Programme. During May /June the College Advisory Committee reviews the status of NSS activities. During induction, the coordinators of these sections narrate benefits and scope of the extension activities to the students. The information about the proposed activities is disseminated on the college notice board, circulars, web notifications, and also by oral interaction / briefing by the section in charges

**The college NSS Advisory Committee has been constituted with the following members:**

1	Chairman of the Committee	Principal, Dr.S.V.Anekar
2	Male Staff Representative	Prof.B.I.Kurane
3	Female Staff Representative	Prof.A.A.Topai
4	Village Representative	Mr.Shivaji Bhaoso Shinde
6	Male Student Representative	Mr.Gajanan Patange
7	Female Student Representative	Miss.Vidya Patil

**Details of NSS Programs Conducted during Academic Year 2011-2012:**

Sr. No.	Event	Date
1	Cleaning of College Campus	12 <sup>th</sup> July 2011
2	Bushes and Weeds Cleaning in Pokhale Pastureland	25 <sup>th</sup> July 2011
3	Gram Swachhatha Abhiyan in Jakhale	02 <sup>nd</sup> Aug. 2011
4	Alley were prepared in Pokhale Pastureland	09 <sup>th</sup> Aug. 2011
5	Independence Day Celebration	15 <sup>th</sup> Aug. 2011
6	Cleaning in Mechanical and Civil Department	30 <sup>th</sup> Aug. 2011
7	Campaigning "Save Girl Child" in Jakhale Village	09 <sup>th</sup> Spt. 2011
8	Alley were preparation in Pokhale Kodoli Road for Trees	13 <sup>th</sup> Spt. 2011
9	Road Side weeds removed in Jakhale village	20 <sup>th</sup> Spt. 2011
10	NSS day Celebration and guest lecture by Prof.S.B.Shirke on Important of NSS	26 <sup>th</sup> Spt. 2011

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11	Gram Swachhatha Abhiyan in Pokhale	04 <sup>th</sup> Oct. 2011
12	Weeds Removal Program in Pokhale Road	19 <sup>th</sup> Oct. 2011
13	College Play Ground Cleaning	30 <sup>th</sup> Oct. 2011
14	Participation in Dnyana Jyoth Rally on the Occasion of Shivaji University Festival	14 <sup>th</sup> Nov. 2011
15	Training and Demonstration on (Disaster Manage ment for primary school children at Ambavade School)	04 <sup>th</sup> Jan. 2012
16	Soil filled in Pits near Pokhale road for tree plantation	20 <sup>th</sup> Jan. 2012
17	Celebration of Republic day	26 <sup>th</sup> Jan. 2012
18	Guest Lecture on “Women empowerment” Prof.Preeti Shinde	15 <sup>th</sup> Feb. 2012
19	Free Health check up program	25 <sup>th</sup> Feb. 2012
20	“Plastic Ban Campaign” in Jakhale	01 <sup>st</sup> March 2012
21	Blood Donation camp	17 <sup>th</sup> March 2012

**Details of NSS Programs Conducted during Academic Year 2013-2014:**

Sr. No.	Event	Date
1	Cleaning of College Campus and Inauguration of NSS	24 <sup>th</sup> July 2013
2	Cleaning in Jakhale Town	15 <sup>th</sup> July 2013
3	Pits were dugg in Jakhale pastureland for tree plantation	19 <sup>th</sup> July 2013
4	Pits filled with Soil in Jakhale pastureland for tree plantation	30 <sup>th</sup> July 2013
5	Tree Plantation was done in Jakhale	03 <sup>rd</sup> Aug. 2013
6	Weeds Removal Program in hostel campus	12 <sup>th</sup> Aug. 2013
7	Celebration of Independence Day	15 <sup>th</sup> Aug. 2013
8	Health and cleanliness rally in Jakhale Village	30 <sup>th</sup> Aug. 2013
9	Blood Donation Camp	05 <sup>th</sup> Spt. 2013
10	Cleaning in Play ground	06 <sup>th</sup> Spt. 2013
11	Alley prepared to water the plants in college campus	16 <sup>th</sup> Spt. 2013
12	NSS Day Celebration	26 <sup>th</sup> Spt. 2013
13	Awareness Rally(Pani Adva-Pani Jirva) conducted between Warananagar to Kodoli	01 <sup>st</sup> Oct. 2013
14	Campaigning Rally organized Save girl child;save fuel; Tree Plantation	04 <sup>th</sup> Oct. 2013

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15	Campaigning Rally on Jakhale on Swachhatha Abhiyan	10 <sup>th</sup> Oct. 2013
16	Campaigning Rally in Plastic Ban in Jakhale Village	14 <sup>th</sup> Oct. 2013
17	Weeds Around Trees in college campus were removed	21 <sup>st</sup> Oct. 2013
18	Awareness Rally on “Voting/Polling in Warananagar”	28 <sup>th</sup> Oct. 2013
19	Cleaning of College Campus	01 <sup>st</sup> Jan. 2014
20	Clean and Ram or Flaten for Lawn Land near Gram Panchayat Office Jakhale	20 <sup>th</sup> Jan. 2014
21	Celebration of Republic day	26 <sup>th</sup> Jan. 2014

**Details of NSS Programs Conducted during Academic Year 2014-2015:**

Sr. No.	Event	Date
1	Cleaning of College Campus and Inaugural of NSS	20 <sup>th</sup> July 2014
2	Cleaning in Play ground	24 <sup>th</sup> July 2014
3	Health Awareness Rally in Padali	30 <sup>th</sup> July 2014
4	Gram Swachatha Abhiyan in Padali	05 <sup>th</sup> Aug. 2014
5	Independence day celebration	15 <sup>th</sup> Aug. 2014
6	Cleaning around Hostel	16 <sup>th</sup> Aug. 2014
7	Cleaning of Graveyard in padali village	27 <sup>th</sup> Aug. 2014
8	Blood Donation Camp	05 <sup>th</sup> Spt. 2014
9	300 pits were dug for Tree Plantation in Padali Graveyard.	16 <sup>th</sup> Spt. 2014
10	NSS day celebration	24 <sup>th</sup> Spt. 2014
11	Cleaning Program of Runnel near Padali	27 <sup>th</sup> Spt. 2014
12	Traditional Day Celebration	02 <sup>nd</sup> Oct. 2014
13	Social Rally	04 <sup>th</sup> Oct. 2014
14	Pit filling on road in Padali Village	10 <sup>th</sup> Oct. 2014
15	Tree Plantation in Padali Graveyard	16 <sup>th</sup> Oct. 2014
16	Alley is prepared to water the plants in college campus	30 <sup>th</sup> Oct. 2014
17	Cleaning in Play Ground	01 <sup>st</sup> Jan. 2015
18	Plastic Ban Campaign Rally in Padali	18 <sup>th</sup> Jan. 2015



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19	Celebration of Republic day	26 <sup>th</sup> Jan. 2015
20	Cleaning of college Campus	05 <sup>th</sup> Feb. 2015

**Blood Donation Drives:** TKIET organizes blood donation camps every year on a regular basis.

**Blood Donation Camp**

Year	Camp Date	Total Blood Collected( Bottle)	Camp held at TKIET with support of
2010-2011	5 <sup>th</sup> Spt. 2010	80	Mahatma Gandhi Blood bank, Nave Pargaon, Kolhapur
2011-2012	17 <sup>th</sup> March 2012	140	Mahatma Gandhi Blood bank, Nave Pargaon, Kolhapur
2012-2013	5 <sup>th</sup> Sep 2012	109	Mahatma Gandhi Blood bank, Nave Pargaon, Kolhapur
2013-2014	5 <sup>th</sup> Sep. 2013	100	Mahatma Gandhi Blood bank, Nave Pargaon, Kolhapur
2014-2015	5 <sup>th</sup> Sep. 2014	400	Hind Ratna Blood bank, Nave Pargaon, Kolhapur

**“Lek Vachwa Abhiyan” (Save the Girl Child) by campaigning and lectures in near by villages**

Date	Place
1 <sup>st</sup> Oct. 2012	Jakhale
04 <sup>th</sup> Oct. 2013	Warananagar

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

The Institute offers various opportunities to faculty and students to participate in various extension work activities as given below.

- Faculty members and students provide financial support to the Warana Matimand Vidyalaya every year.
- TKIET purchases 25, 000 files prepared by the differently abled students of Warana Matimand Vidyalaya.

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- TKIET encourages students to take part in various sports activities conducted by “Faith Foundation” for Warana Matimand Vidyalaya students.
  - TKIET purchases Diwali lanterns and Rakhi prepared by the differently abled students of Warana Matimand Vidyalaya, Warananagar.
  - Students from various departments celebrate their birthdays with students of Warana Matimand Vidyalaya and providing gifts like toys, clothes to them.
  - At the end of the academic year final year students from various departments celebrate ‘100 Days’ programme with differently abled students of Warana Matimand Vidyalaya by arranging Entertainment programmes like Dance, Singing etc.

**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:**

To create awareness of recent technology and various facilities for the empowerment of people from different sections of society.

**Outcomes:**

Extension activities conducted by various departments of the institute will

- Excell in academic learning, improve in professional and ethical values in faculty and students of the institute.
- Improve the institute and its role by providing ‘equal opportunity’ to improve the various people of the society.

Extension activities complement student's academic learning experience in Professional and ethical values qualities like:

- a. Sense of responsibility towards society.
- b. Continuous and lifelong learning.
- c. Hard working.
- d. Perception.
- e. Team work.

- f. Sense of belongingness.
- g. Empowerment of women.
- h. Leadership quality and managerial skills.

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

- The community members are invited for the community cultural programs. The institute organizes such programs in institute campus or concerned community villages.
- Institute organizes cultural programs at schools and involves people for improvement in the quality of life of community residents. The list as given below.

**Community service activities by NSS by including nearby community:**

Sr No.	Community	Activity	Date
1	A/P Pokhale, Tal: Panahala, Dist: Kolhapur.	Bushes and Weeds Cleaning in Pokhale Pasture Land	25 <sup>th</sup> July 2011
2	A/P Jakhale, Tal Panhala, Dist Kolhapur	Gram Swachhatha Abhiyan	02 <sup>nd</sup> Aug. 2011
3	A/P Pokhale, Tal: Panahala, Dist: Kolhapur.	Alley were preparation in Pokhale Pasture Land	09 <sup>th</sup> Aug. 2011
4	A/P: Jakhale, Tal Panhala, Dist Kolhapur	Campaigning Save Girl a Child	09 <sup>th</sup> Spt. 2011
5	A/P Pokhale, Tal: Panahala, Dist: Kolhapur.	Gram Swachhatha Abhiyan	04 <sup>th</sup> Oct. 2011
6	A/P Jakhale, Tal: Panahala, Dist: Kolhapur	Tree plantation	03 <sup>rd</sup> Oct 2013
7	A/P Warananagar, Tal: Panahala, Dist: Kolhapur	Voting Awareness rally at Warananagar	28/10/2013
8	A/P Jakhale, Tal: Panahala, Dist: Kolhapur	Health and Cleanliness rally	30/08/2013
9	A/P Padali Tal Hatkanagale, Dist Kolhapur	Health Awareness Rally	30 <sup>th</sup> July 2014
10	A/P Padali Tal Hatkanagale, Dist Kolhapur	Gram Swachhatha Abhiyan	05 <sup>th</sup> Aug. 2014

**Community service activities for nearby villages**

<b>Sr. No.</b>	<b>Topic</b>	<b>Place</b>
1	Online Banking/RTGS/NEFT	Gram Panchayat, Latavade
2	Green Banking in India	Tatyasaheb Kore Military Academy, Pargaon
3	Digital Locker (Maharashtra Govt)	Mahatma Gandhi Vidyalay, Ashta
4	Mobile Banking	KBP college, Aitawade
5	e-Learning	New English Junior college, Rendal
6	National Digital Literacy Mission	Vidya Mandir, Borpadale
7	Online Bill Payment	Latthe Education Society's Polytechnic, Sangli
8	Digital Locker (Digital India)	Hutatma Kisan Ahir Jr. College, Walva
9	Voting Card Service Updating	Warana Bhagini Mandal, Warananagar
10	E-Banking	Balbhim Vikas Seva Society, Male
11	Online Krushi Seva	Jakhale Highschool, Panhala
12	Passport Seva	Nandyal Gram Panchayat, Nandyal
13	e-Commerce (Online Shopping)	Gram Panchayat, Gokul Shirgaon
14	Cyber Security	KBP College of Science, Aitawade
15	Maha e-Seva	Gram Panchayat, Male
16	RIT Act	Shere Gram Panchayat, Tal-Karad
17	e-Learning for Kids	Vidya Mandir, Jakhale
18	Election Commission of India (Registration form for Grampanchayat Candidate / Affidavite / Expense Account)	Pratinidhi Highschool, Kundal
19	Digital India Agriculture	Sarvodaya Vikas Society, Kodoli
20	Railway Ticket Reservation	Gram Panchayat, Utre
21	Agriculture in digital India	Bahirewadi, Tal-Panhala
22	MHCIT	Parashar Highschool, Nave Pargoan
23	Maha E-seva	Gram Panchayat, Minache
24	E-courts	Khanapur, Aajra

- The Institute always takes part in improving nearby school education by conducting technical sessions like awareness of aptitude test, use of computers, JEE awareness, higher education in a more colourful manner, with PPT presentation for the primary school and HSC students.

- **VARAKARI MAHAMELAVA**

SWVSM in association with TKIET, Waranagar organized Varkari Mahamelava during 27<sup>th</sup>-29<sup>th</sup> Jan. 2014. The function was organized on occasion of 100<sup>th</sup> birth anniversary of great visionary late Shri. Tatyasaheb Kore. The objective of programme was to create the spiritual awareness of varakari sampraday amongst people of Warananagar. About 5000 from different provinces of Kolhapur district were gathered on this occasion. The people contributed through the different programme such as *dindi*, *parayan*, *kirtan* etc.

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

- **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. Institute has received following funds from Shivaji University, Kolhapur for conducting activities.

Sr. No	Lead Institute activity Year	Fund Received Rs.
1	2010-11	14, 41, 830
2	2011-12	16, 82, 610
3	2012-13	07, 14, 121
<b>Total</b>		<b>38, 38, 561</b>

- **Community based systems :**

**Warana Wired Village Project.**

Information and Communications Technology (ICT) can be used as an effective tool for rural development. An example of the adoption of ICT by a rural community is the Warana "Wired Village" project, in the state of Maharashtra, India. Here, the local cooperative is using ICT to streamline the operations in growing and harvesting sugar cane. ICT was introduced in this area by the Warana "Wired Village" project, launched in 1998 as collaboration between the National Informatics Centre (NIC), the Government of Maharashtra, the Warana Vibhag Shikshan Mandal (Education Department) and the Warana Group of Co-operatives. The project aims at bringing agricultural market and educational information to 70 villages around Warananagar and intends to simplify other business operations of the co-operative.

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

- Appreciation letter by Tatyasaheb Kore Industrial Training Institute for conducting Basic Computer Course for ITI, Students.
- Appreciation letter by Tatyasaheb Kore Military Academy for conducting 1 week Basic Computer Course for Tatyasaheb Kore Military Academy Students.
- Appreciation letter by nearby HSC Colleges for conducting Awareness programs of JEE awareness and Moodle Test for Students.
- Appreciation letter by Mahatma Gandhi Hospital, Nave Pargoan for conducting Blood Donation Camp in TKIET, warananagar.
- Appreciation letter by Hind Ratna Blood Bank for conducting Blood Donation Camp in TKIET, warananagar.
- Award and Appreciation by ISTE New Delhi for Our Various U.G. and P.G.Projects.

**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.**

- a) The Institute collaborates and interacts with other Institutes by:
  - i. Offering assistance for conducting Short Term Training Program (STTPs)
  - ii. Providing infrastructure for the ICT based training programs. (IITs)
  - iii. Providing guest lecturers for some specific subjects
  - iv. Providing laboratories and guidance to their students for some subjects.
  - v. Providing library, System and Network support and other infrastructure facilities.
- b) The Institute collaborates with Industries and research laboratories by:
  - i. Conducting project work in the area of their interest/problem.
  - ii. Providing consultancy to the industries.

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- iii. Arranging new edge technology awareness programs for the industry staff.
  - iv. Providing calibration and equipments for the various needs of industries.
  - v. Providing services in road and land surveying projects.
  - vi. Interacting with reputed laboratories like NCL for different projects.
  - vii. Arranging many interactive sessions with industry experts for students.
  - viii. Arranging Faculty development program (FDP) for knowledge upgradation and industrial exposure by industrial experts
  - ix. Vacational training and industrial visits for students and staff.
- c) Benefits from these initiatives are as follows,
- i. Sharing of resources with other institutes in form of eminent guest speakers is beneficial for research.
  - ii. Guidance from industrial experts is beneficial in entrepreneurship development and research.
  - iii. Project work from industry provides hands on industrial problem solving experience.
  - iv. Placement assistance.
  - v. By vacational training and industrial visits the actual work environment of industries be experienced.

**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.**

**MoUs/Collaborations**

Sr. No.	Name of Industry	Subject / Field of MOU	Date of MOU	Period of MOU
<b>Electronics Engineering Department</b>				
1.	Texas Instruments, India	Instrumentation, Control Systems	30/05/2014	Life Time
2.	Robo-Genesis Bangalore	Robo AVR-Autonomous	21/07/2014	5 Years
3.	IIT, Bombay	E-Yantra Robotics Lab	Nov. 2013	Life Time
4.	IIT, Bombay	Akash Tablets for Research	Nov. 2012	Life Time

Mechanical Engineering Department				
1	W.S. Dudh Utpadak Sangh Ltd., Tatyasaheb Korenagar	Refrigeration and Air Conditioning	17/07/2006	Life Time
2	T.K.W.S.S.K. Ltd., Warananagar	Sugar Manufacturing	17/07/2006	Life Time
3	Manugraph India Ltd., Kodoli	Printing Technology	18/08/2006	Life Time
4	Ghatage Patil Industries Ltd., Kolhapur	Foundry	24/02/2009	Life Time
5	Rocket Engineering Corporation, MIDC, Shirol	I. C. Engine	05/03/2009	Life Time
6	Menon and Menon Ltd., MIDC, Shirol	I. C. Engine	05/03/2009	Life Time
7	Mayura Steel, MIDC, Shirol	Foundry and Heat Treatment	06/03/2009	Life Time
8	Menon Bearings Ltd., Gokul Shirgaon, Kolhapur	Bearing Manufacturing	06/03/2009	Life Time
9	Indiasoft Technologies (P) Ltd., Pune	CAD/CAM/CAE	09/10/2009	Life Time
10	Infinite Solutions, Pune	CAD/CAM/CAE	09/10/2009	Life Time
11	Sinhgad College of Engineering, Pune	Academic Interaction	10/10/2009	Life Time
12	Aarya Technologies, Kolhapur	CAD/CAM/CAE	14/12/2009	Life Time
13	Design Guru Consultancy and Services, Kolhapur	CAD/CAM/CAE	02/03/2011	Life Time
14	Gavade Electricals, Nasik	PLC	11/03/2011	Life Time
15	Global Talent Track Pvt. Ltd., Pune	CAD/CAM/CAE	15/07/2013	Life Time



Chemical Engineering Department				
1	Finolex Ind. Ltd Ratnagiri	Simulation ASPEN PLUS	2008-09	10 years
2	IIT, Bombay	Extended field Trials on Jaggery Process and Product Improvements	2013-14	10 years
3	BRE, Texas	Promax Simulation software	2013-14	5 years
4	IIT, Bombay	Virtual Lab	2014-15	Life Time
5	Vishwas Shikshan Prasarak Mandal's, Deshmukh Anandrao Balwantrao Naik Arts & Science College, Yashwantnagar, Chikhali	Vocational skill development	2014-15	5 years
6	Goyel IT solutions, New Delhi	Promax Software	2013-14	5 years
7	Upadhye Consultancy, Mumbai	Heat exchanger Model	2014-15	5 years
Computer Science & Engineering Department				
1	Infosys, Pune	Campus Connect Program	24/8/2010	6 yrs
2	EMC <sup>2</sup>	Storage Area Network	2011	5 yrs
3	Redhat India Pvt Ltd	LINUX	5/9/2009	7 yrs
4	Oracle India Pvt. Ltd	Database	10/10/2009	7 yrs

**Industrial Consultancy-**

Sr.No.	Industrial Type Work	Nature Of Work done	Cost in Rs.(Lac)
1	WAPGCOS Plastic Industry, Warananagar 1. Injection molding machine. 2. Blow molding machine. 3. Bag making cut seal machine. 4. Pad printing machine. 5. Film printing machine. 6. Plastic film making machine.	Complete control panel development.	1.2
		Complete control panel development.	1.0
		Development of Clutch brake	0.5
		Electronic control system.	0.5
		Development of control system panel.	1.5
		Development of D.C. motor drive Complete control panel development	2.5
		Winder & motor speed synchronization control system.	0.25
		PID temperature controller	0.25
2	Warana Sugar & Dairy Industries, Warananagar	Bagasse feed rate controller for boiler.	1.0
		PLC based centrifugal machine controller.	0.25
3	Warana Food & Dairy Industries, Warananagar	A.C. motor controller.	0.5
		Milk process control panels.	2.5
		Multi-channel temperature controller.	0.25
		Induction heat seal controller.	1.1
		Micro-controller based clean in place (CIP) control system	2.0
		Process monitoring & controlling using CAN micro-controller	0.5
		Digital timers.	0.2
4	Vijayshree Power Electronics Industry, Sangli	Digital timer, temperature controllers.	0.05
		DC motor speed controller.	0.25
5	X-Innovation, Pune	Vibration Measurement of Milling Machine by using FFT	0.07

6	Kolhapur Institute of Technology, Kolhapur	Stress analysis of involute profile & cosine Gear by using Photoelastic techniques	0.05
7	ANSYS APDL 15.0	ANSYS Training Program	0.25
8	Ethika Engineering Solutions India Pvt. Ltd., Pune	Structural Analysis for Frame of a Machine Tool-EDM using CAE Tools through the Evaluation Phase of the Design	Sponsored projects
9	Laxmi Oil Pumps and systems Pvt. Ltd. Solapur	Modeling and Fatigue analysis of lubricating	Sponsored projects
10	National Chemical Laboratory (NCL), Dr. Homi Bhabha Road, Pune	Optimization of controlled parameters for the use in design of evaporator for dye (Textile) industry.	Sponsored projects
11	Kalyani Hayes Lemmerz Ltd., Chakan Pune- 410 501	To Analyze the effect of camber angle & slip angel on life of while rim of passenger car by using radial fatigue testing	Sponsored projects
12	Trimurti Engineers, Shirol MIDC, Kolhapur	Design & Development of Special Purpose Machine (SPM) for face milling & two hole boring of a CR-22 block	Sponsored projects
13	Balaji Industries Pvt. Ltd., Kolhapur	Study of residual stresses in Industrial hydraulic cylinder by analytical and FE Analysis	Sponsored projects
14	Able Technology India Pvt. Ltd., Chinchwad, Pune	Design analysis and performance optimization of disc brake	Sponsored projects
15	Dr. Nano's Laboratory, Ichalkaranaji	Experimental and FE Analysis of Composite flat compression spring for rear suspension of car	Sponsored projects
16	Advance Engineers Shirol, Kolhapur	Bending stresses analysis of worm wheel of winch machine using ESA and FE Analysis	Sponsored projects
17	Tata Motors Ltd, Pune	Wind Energy utilization for generation of electricity on an automobile	Sponsored projects
18	Advance Engineers, MIDC-Shirol	Bending Stress Analysis of worm wheel of winch machine gear box using experimental and FA analysis	Sponsored projects

**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.**

Each department collaborated with industries related to their area of interest which covers plant training to the students, Faculty, sponsored projects, organizations of training program and workshop.

Sr. No.	Industry/ Institute Name	Department	Year	Contribution and Benefits
1.	Texas Instruments, India	Electronics Department	2014-15	Sponsored Texas C2000 Launchpad and boosterpack for Analog laboratory
2.	IIT, Mumbai	Electronics Department	2013-14	Sponsored E-yantra Robotics Laboratory
3.	IIT, Mumbai & MHRD New Delhi	Electronics Department	2012-13	Akash Tablet Laboratory
4.	IIT, Mumbai & MHRD New Delhi	Computer Science & Engineering Department	2012-13	Akash Tablet Laboratory
5.	Goyel IT solutions, New Delhi	Chemical Department	2013-14	Promax Software
6.	Upadhye Consultancy, Mumbai	Chemical Department	2014-15	Heat Exchanger Model
7.	MODROBS, AICTE, New Delhi	Chemical Department	2007-08	Mass Transfer Lab (Spray Dryer)
8.	MODROBS, AICTE, New Delhi	Chemical Department	2011-12	Advanced Heat Transfer Lab.
9.	MODROBS, AICTE, New Delhi	Chemical Department	2013-14	Effluent treatment of dairy waste by ultrafiltration
10.	MODROBS, AICTE, New Delhi	Chemical Department	2013-14	IIPC
11.	MODROBS, AICTE, New Delhi	Chemical Department	2013-14	Advanced Chemical Engineering Lab.

12	MODROBS, AICTE, New Delhi	Chemical Department	2013-14	Mechanical Operation Lab.
13.	MODROBS, AICTE, New Delhi	Civil Department	1994-95	Loading Frame
14.	MODROBS, AICTE, New Delhi	Mechanical Department	2011-12	Development of Metrology & Q. C Lab
15.	MODROBS, AICTE, New Delhi	Computer Department	2013-14	Advanced Network Technologies remote & virtual Lab

**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.**

**Industry collaboration Workshops/ Conferences:**

Sr. No.	Name of Event	Name of Industry/ Institute	Year
<b>Electronics Engineering Department</b>			
1.	Workshop on “ Advance Embedded Systems”	Core Technologies, Kolhapur	2015
2.	Training Program on PLC and SCADA	Prolific Systems Pvt. Ltd. Pune.	2011
3.	Two week workshop on “Signals and Systems”	IIT, Kharagpur & MHRD, New Delhi	2014
4.	Four Days workshop of “Akash Android applications programming for students”	IIT, Mumbai & MHRD, New Delhi	2013
5.	Two week workshop on “Analog Electronics”	IIT, Kharagpur & MHRD, New Delhi	2013
6.	Two week Workshop on “Research Methodology”	IIT, Mumbai & MHRD, New Delhi	2012
7.	Two week Workshop on “Database Management Systems”	IIT, Mumbai & MHRD, New Delhi	2013
<b>Mechanical Engineering Department</b>			
8.	National level workshop on I-Robotics	I-Robotics, Pune	2011
10.	National level workshop on Road Safety	RTO, Kolhapur	2012
11.	National level workshop on pneumatics	Genetics India Ltd., Pune	2013

12.	National level workshop on Energy Management	Ashok Narayan Buva, Kolhapur	2013
13.	National level workshop on FFT Analyzer	Josts Engineering, Pune	2013
14.	National level workshop on Teaching Methodology in M.E. Design Engineering	Shivaji University, Kolhapur	2013
15.	National level workshop on Engg. Thermodynamics	IIT, Bombay	2012
16.	National level workshop on Control System	IIT, Khargpur	2014
17.	National level workshop on AUTOSTROKE (2k15)	Autodesk, Delhi	2015
18.	National level workshop on supply Chain Management	BOSCH India Ltd., Pune	2015
19.	National level workshop on Metabotics and Robotics	Wisdom Ware Technology, New Delhi	2015
20.	National level workshop on PLC and Automation	Gavade Electricals, Nasik	2015
21.	National level Conference DIME-2K15	Shivaji University, Kolhapur	2015
22.	National level workshop on An Introduction to CFD for Engg. Research	Shivaji University, Kolhapur	2015
<b>Chemical Engineering Department</b>			
24.	Two Days workshop on ASPEN Plus for industrial personels	Dr. R. K. Malik, IIT, Mumbai	2010
25.	Three Days workshop on “Industrial Based Software ProMax level 1”	P.V.P.I.T., Budhagaon, DYP, Kolhapur, Department of Technology, Shivaji University, Kolhapur	2015
<b>Computer Science &amp; Engineering Department</b>			
26.	Workshop on Open Source Technologies PHP, PYTHON & UBUNTU LINUX	Mr. Krishnakant Mane from IIT, Mumbai	2013
27.	Workshop on IBM Cloud	Mr. Shashank V Vagarali from India Software Labs (ISL), IBM	2014
28.	One day workshop on Introduction to LINUX-OS	Prof. T. B. Patil Head, Department of IT, KIT's CoE, Kolhapur	2015
29.	Workshop on Php, MySQL and Apache	TKIET under lead College activity	2010

30.	Aptitude test for BE students	Chaitanya Infotech Navi Mumbai	2010
31.	Workshop on Core Java	SEED Infotech	2010
32.	Workshop on ASP.NET	SEED Infotech	2010
33.	Workshop on Network Essential training	Tech Sangam	2011
34.	Campus Connect Program	Infosys Pune	2013
<b>Civil Engineering Department</b>			
35.	Microsoft project	I Global solutions, Pune	2015
36.	Microsoft project	CAAD Centre, Pune	2015
37.	Workshop on Soft skill development	FACE Academy (Focus academy for carrier enhancement )	2015
38.	Workshop on Soft skill development	Rankskill, Pune.	2015
39.	One week Workshop on Soft skill development	Under lead college group	2013
40.	Workshop on Environmental Studies	IIT, Mumbai & MHRD, New Delhi	2015
41.	Pedagogy ICT Worksop	IIT, Mumbai & MHRD, New Delhi	2015
42.	Workshop on Fluid Mechanics	IIT, Kharagpur & MHRD, New Delhi	2014
43.	Workshop on Step 2 Research	IIT, Mumbai & MHRD, New Delhi	2014
44.	Two week Workshop on Engineering Mechanics	IIT, Kharagpur & MHRD, New Delhi	2013
45.	One week Workshop on Effective Teachnig Methodology,	IIT, Mumbai & MHRD, New Delhi	2012

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**Industry Expert Lectures:**

Sr. No.	Name of resource person	Designation and Industry	Topic
<b>Electronics Engineering Department</b>			
1.	Mr. Sandesh Mane	Junior Scientific officer, ISRO Hyderabad	Careers in space research
2.	Mr. Shivprasad Sakharpe	Sr. Engineer Cummins India Ltd. Pune	Industry expectation and research
3.	Mr. Nitin Patil	Sr. Analyser Dr. Reddies Pharmaceuticals, Chennai	Role of Electronics Engineer in Pharmaceutical Company.
4.	Mr. Chaitnya Kolhatkar.	CEO, The Parking Scout Mumbai	Opportunities in PLC/ SCADA Automations
5.	Mr. Amar Phadke	Lead Engineer, Immersion Innovation Center, Pune	Research Project Selection and Implementation
6.	Mr. Krishnachandra Mehkarkar	Managing Director, Meltek Infosystems Pvt. Ltd Pune	Challenges and opportunities in satellite communication
7.	Mr. S. M. Phadatare	Ret. Town Planning Officer, Pune Division	Role of Engineers to the Society
8.	Mr. Sachin Dhole	Dy. Collector, Dist. Sangali	Competitive Examinations and Higher Studies
9.	Mr. Chetan Wete	Area Manager, HCL Infosystems pvt. Ltd. Pune Division	Abroad Job Opportunity
<b>Computer Science &amp; Engineering Department</b>			
10.	Mr. Dhananjay Padalkar	CEO, Vishwanet technologies, Kolhapur	PL/SQL
11.	Mr. Sunil Patil	Managing Director MITCON, Pune	Entrepreneurship Awareness
12.	Dr. Vijay Gokhale	Sr. Industrial Trainer, SEED, Pune	How to improve Technical Skills
13.	Mr. Vikrant Kamble	Sr. Engineer, Accenture, Pune	Expectations of Company from Students
14.	Mr. Nilesh Nadgonde	Managing Director T-cognition, Kolhapur	SAP Career



15.	Nilesh Lagdive, Raviraj Patil	Software Engineers, Barclays, Pune	Expectations of Company from Students
16.	Mr. Rajesh Namase	Sr. Engineer, Techlila, Pune	Online Business Management
17.	Mr. Tofik momin	Analyst programmer syntel ltd. Pune	Mainframe Technology
18.	Mr. Nilesh Lagdive	Project Manager, Barclays system, pune	Project management
19.	Mr. Amit Kore	Professor, AISSM, Pune	Computer Networking
<b>Mechanical Engineering Department</b>			
20.	Dr. Sachin Kore	Asso. Prof., Dept. Of Mechanical engg., IIT Guwahati	Advance Machining Techniques
21.	Mr. Samir Latkar	Technical Head, IFS Academy, Pune	Finite Element Analysis by using ANSYS 11
22.	Mr. Milind Deshpande	India Soft Technologies Pvt. Ltd., Pune	Training Program on WITNESS
23.	Mr. Sandip Salokhe, Mr. Basavraj Awati	Technology consultant MITCON, Kolhapur	Entrepreneurship and Development Program
24.	Mr. Santosh Katkar	Inspector, RTO Dept. Kolhapur	Road safety program
25.	Mr. Prasann Joshi, Mr. Arvind Shiralkar	Manager CAD CAM GURU Pune	Training and automation using CAD/CAM/CAE
26.	Prof. B.D.Kelkar	Director of M/s. Educational and Engineering Equipments (EEE), Pune	Innovative Techniques
27.	Mr. Mandar Deshpande	Marketing manager GATE Forum, Kolhapur	Competitive examinations
28.	Mr. Menash Elijah, Mr. Kaustub Panase, Mr. Karan Kamble	I-GLOBAL Solution, Pune	Opportunities for Mechanical Engineering students
29.	Shri. Suhas Gadekar	Prolific Systems and Technologies Pvt. Ltd, Pune.	Advances in Mechanical Engineering
30.	Dr. D.P.Mishra	Professor in Department of Aerospace engineering, IIT Kanpur	Micro Combustor & its Applications
31.	Shri Amit Fadake Shri Rajesh Tahasildar	SKF, Pune	SKF Bearings

32.	Shri Mahesh Bal	Bosch India Ltd; Pune	Supply Chain Management
33.	Shri. Rajaram Lokhande	Officer on Special Duty, Urja 4	Current Scenario in Power Sector
34.	Mr. AkashKumar	Wisdom Ware Technology, New Delhi	META Botics and Robotics
<b>Chemical Engineering Department</b>			
35.	Dr. R. K. Malik	IIT, Mumbai	Design and cost estimation aspects in chemical engineering
36.	Mr. Manish Thakur Desai	Assistant Manager, Finolex Industries Ltd., Ratnagiri.	Various opportunities in various fields for Chemical Engineers
37.	Dr.C.V.Rhode	Chief Scientist, NCL Pune	The Various Research Fields In Chemical Engineering
38.	Mr. R. R. Gaikwad	Chief Manager, Deepak Nitrite Pvt Ltd, Roha.	Safety act and Man power handling and various opportunities for fresher's
39.	Dr. K.Srinivas	BIT's Goa	Career opportunities of Chemical engineering
40.	Dr. Vivek V. Buwa	IIT, Dehli	Research and carrier opportunities of Chemical engineering
<b>Civil Engineering Department</b>			
41.	Dr. Pramod Bhalerao	Chairman EUREKA INDIA	The demand of Civil Engineers as entrepreneur.
42.	Mr. Koustubh Panase	CAD Centre, Pune	REVET Software
43.	Mr. Koustubh Panase	CAD Centre, Pune	Recent Trends in Civil Engineering
44.	Prof Pallavi Desai	Ass. Professor, KIT's COE, Kolhapur	Career opportunities for girl students
45.	Mr.S.D.Patil	Cluster Head, L & T construction, Mumbai	Present construction industry scenario
46.	Mrs Preeti Patil	HR Manager, B& M Infra Pvt. Ltd. Pune	Personality development & communication skill
47.	Mr. Menash	I- Global Solutions, Pune	Microsoft Project – MSP
48.	Mr. D D Shinde	AEE –I, WRE Dept. Maharashtra Government	The Opportunities in Government Services

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**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**

Industry-Institution-Community interaction helps in enhancing the quality of teaching and in making the students industry oriented. Institute gets frequent feedbacks about upgradation of the curriculum, training requirement for the staff and students, upgradation of the facilities in the laboratories etc. some of the upgradations are as below:

Sr. No.	Industry/ Institute Name	Year	Contribution and Benefits	Beneficiaries
1.	Texas Instruments, India	2014	Sponsored Texas C2000 Launchpad and boosterpack for Analog laboratory	T. E. Electronics Students, Staff
2.	IIT, Bombay	2014	Sponsored E-yantra Robotics Laboratory	B.E. Electronics Students
3.	IIT, Bombay & MHRD New Delhi	2013	Akash Tablet Laboratory developed at Electronics and CSE departments	S.E, TE, BE (Electronics & CSE) students
4.	Goyel IT solutions, New Delhi	2014	Promax Software	B.E. Chemical Students
5.	Upadhye Consultancy, Mumbai	2015	Heat exchanger Model	S.E., T.E. Chemical Students

By the Industry-Institution-Community linkages the institution has been benefited and details of which are given below

**a) Curriculum development/enrichment:** Proper feedback is being taken from all the stake holders, the same is submitted to the university. Regarding enrichment, Soft skill, Personality development, PPT & Yoga classes are conducted. The industries usually suggest the design of the curriculum for various branches which would enable the students to improve knowledge and to increase opportunities in employment.

**b) Internship/ On-the-job training:** The students of 3<sup>rd</sup> & 4<sup>th</sup> year undergo internship training in various Govt. & private organisations.

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**c) Summer placement:** Students are encouraged to undertake live projects in different organisations during summer

**d) Faculty exchange and professional development:** The Institute has signed MoUs with different Institutions for faculty exchange programmes.

**e) Research:** The Institute has a R&D Cell. The Faculty members of different Departments are encouraged to carry out research works.

**f) Consultancy:** Various departments have taken up the consultancy work for different Institutions and Organisations.

**g) Extension:** Various extension activities such as Blood donation camps, Swachh Bharat Abhiyan, Save Water awareness programmes, NSS camps etc are carried out.

**h) Publication:** The Faculty members and students publish research papers in various National and international journals and conferences. The faculty members of different departments have published books.

**i) Student Placement:** Many students are placed in different reputed organisations through campus placements. In addition to this, the Institute also conducts entrepreneurship awareness programmes for the students in order to motivate them to become self employed.

**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.**

In the institute, every department has a committee called Industry Institute Interaction Cell (IIIC) which works to make collaborations/MoUs with the industry. The institute has systemic efforts in research, consultancy and extension to achieve expected outcomes. Some of them are as below:

1. The institute provides all required facilities to carryout research on a topic of his/ her choice and to have collaborations with any institutes.
2. R & D cell monitors the research activities, identifies and executes the innovative projects by UG & PG students.

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3. Deputation of faculty to take up advanced training in related institutions/industries.
  4. The college practices the concept of teacher-led students' projects.
  5. Industrial visits have been arranged with the help of various collaborating agencies.
  6. The institute gives financial assistance to staff and students for publishing paper in reputed journals, participating in conferences etc.
  7. The institute gives special weightage to the staff members who publish papers in journals with high impact factors during appraisal.
  8. Conducting joint technical programs and events with other organizations.
  9. Inviting expertise from various divisions of other industries for delivering Guest Lectures, key note address, invited speaker in workshops and symposiums.
  10. Library facilities are available from 8.00 am to 12.00 pm and there is provision of 24 hours internet facility to carryout research work.
  11. Wi-Fi facility is available to students and faculty for 24 hours.
  12. The joint industry institute collaboration is used for organizing technical workshops on advanced topics, sponsored projects, in plant training etc.

**Criterion IV**  
**Infrastructure**  
**and Learning Resources**

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## **CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**

### **4.1 Physical Facilities**

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

The institute has adequate physical facilities and infrastructure for the existing academic programmes and administrative functions, co-curricular and extra-curricular activities. The Institute creates necessary infrastructure systematically and continuously based on the rising requirements with a futuristic vision of need and utility. The institute has 5 departments with well furnished class rooms, equipped laboratories, language laboratory, Central Library, Departmental Library, five well furnished seminar halls, conference halls and an auditorium. Institute has excellent ICT infrastructure such as 50 Mbps leased line and more than 800 computers connected in wired network, one Km diameter Wi-Fi connected campus, Digital library, with more than 12 TB e-learning resources in data centre and Central Computer Facility (CCF) lab. This ICT infrastructure is managed by SNS department. The entire campus is situated in 15 acres area which has recreational facilities such as play ground, indoor stadium, indoor swimming pool, Gymnasium, cafeteria, bank extension counter.

Additional infrastructure will made available as per curriculum and additional programs.there is no derth of infrastructure and othe facilities.

#### **4.1.2 Detail the facilities available for**

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

The institution has spacious, ambient class rooms with ICT facilities, well equipped Seminar halls with audio-visual facility. All departments have various laboratories with modern equipment and machineries supported by language, communication skill laboratory and central computing facility. Institute provides facilities for e-learning, 24x7 hr. access to internet through Wi-Fi facilities, digital library having large collection of e-books, and e-resources.

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Sr. No.	Description	Quantity	Area (Sqm)	Remark
1	Class Rooms	39	2941.03	Avg. Class Room Area >76 Sqm
2	Tutorial Rooms	13	481.88	Avg. Tutorial Room Area> 37 Sqm
3	Laboratories	75	5754.49	Avg. Laboratory Area> 76 Sqm
4	Seminar Halls	7	1081.86	Avg. Seminar Hall Area> 155 Sqm
5	Central Computing Facility Lab	1	201.62	
6	Library	1	1139.20	
7	Drawing Hall	1	152.00	
8	Workshop	1	403.13	
9	Server Room	1	40.00	
10	Language Lab	1	66.00	

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

- **Facilities available in campus to promote interest in sports, outdoor and indoor games, Gymnasium:**

All the students are encouraged and motivated to participate in sports activities as their extracurricular activities.

The institution has an active Gymkhana department led by dedicated physical director to take care of organizing, promoting various sports activities. The Gymkhana department proactively takes lead in organizing most of the sports tournament at district, university, zone, Inter-Zonal and state levels.

Also, gymkhana department promotes the students to participate in popular and reputed sports tournaments at various levels outside the campus.

The Gymkhana department organizes Annual Sports Day for felicitation and awarding the meritorious students who have participated and won the prizes in team and individual sport tournaments at various places.



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- **Infrastructural facilities for sports**

Sr. No	Particulars	Area [Sqm]
1	Indoor Stadium [Gymnasium, Table Tennis, Squash, Badminton, Steam bath and Jacuzzi]	1431.93
2	Swimming Pool	1242.84
3	Play Ground	27338.92

- **Sports Grounds**

Sr. No.	Sports	Area [Sqm]
1	Athletic Track ( 8 lane)	6000
2	Football Ground	7035
3	Volleyball Court	901
4	Basketball Court	594
5	Kho-Kho Ground	700
6	Handball Ground	1100
7	Kabaddi Ground	600
8	Cricket Concrete Pitch	35

- **National Service Scheme (NSS):**

Institute has University recognized NSS cell which conducts different social activities round the year. NSS Cell has an active committee comprising of the following structure Principal, Physical Director, NSS Student's Coordinator, Faculty Advisors and representatives among students.

Some of the most important activities NSS cell organizes are as:

- NSS Camps at nearby villages.
- Village adoption.
- Blood donation camps.
- Clean campus mission.
- E-Waste collection and management.
- Social awareness camps viz. "Save Baby Girl", "AIDS rally", "Save Fuel".

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- **Facilities available on the campus to promote interest in cultural activities, public speaking and auditorium:**

In order to encourage the student's interest in cultural activities the Institution provides all necessary required facilities. The institution has established the best practices for organizing cultural events by forming various committees that constitutes representatives from students and faculty. These committees are Cultural Committee, Annual college Magazine "Horizon" committee and "Marathi Sahitya Mandal" Committee and Nature Club.

In order to cater the needs of cultural events the institute has adequate number of facilities.

- The Institute has well furnished indoor and open auditorium for all cultural events conducted for students as well as for staff.

Sr. No	Complex	Quantity	Area (Sqm)
1	Open Air Auditorium	2	2000
2	Indoor Auditorium [Audience Capacity:1000]	1	940.80

- The cultural events organized annually are Annual Social Function, Traditional Day.
- University level "Youth festival -2013" celebrated in our institute campus for 3 days in the year 2013
- The cultural committee promotes the students to participate in rounded cultural events such as University Youth Festival, Bhartiya, and District /State level cultural activities.
- The students having qualities in performing music art, had established their own band named as "AKHSTRA" – a student's orchestra.

- **Communication Skill development:**

TKIET is proud to have set up a unique and one of its kind a software based state-of-the-art, best-in-class, Interactive Language Laboratory from **Digital Language Lab Systems (ODLL)**. The four basic principles for acquiring proficiency in any language are Listening,

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Speaking, Reading and Writing (LSRW). The primary objective of language lab is to fine tune the communication skills of engineering professionals, so as to make them effective in both oral and written communication together with soft skills, developing students all round personality. The Language Lab. serves as a powerful tool while language teaching to improve students oral/aural and written communication skills.

- **Yoga Centre:**

The institute has a Yoga and Meditation centre where various yoga camps are organized. Many faculty and students takes voluntary participation and organizes such camps through trained yoga instructors.

- **Health and Hygiene:**

- The institute is maintaining the desired level of hygienic conditions in the entire campus including rest rooms, cafeteria and mess.
- The institute has also established a separate purifying plant drinking water equipped with UV based filtration scheme. The plant is having water purification capacity of 50000 litres per hour. The plant provides separate drinking water line which is distributed thought out campus.
- A separate campus house keeping team is ensuring healthy and hygienic conditions and also the aesthetic view of the campus. A supervisor is maintaining all necessary precautionary measures to ensure healthy and hygienic conditions.
- The institute is equipped with well planned underground drainage system through which sewage water is passed for further treatment.

**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).**



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### Planning and Ensuring of Infrastructure:

- The development of Institute infrastructure is totally adhered to the norms of AICTE, State government and University.
- To ensure the infrastructure adequacy and optimum use for academic growth, the experts from the regulatory authorities periodically monitor and visit the Institute for inspection.

Sr.No.	Particulars	Academic Year	Amount Spent in Rs
1	Indoor Auditorium	2014-15	2,15,00,000/-
2	Library	2014-15	1,32,85,222/-
3	Seminar Halls [2 nos.]	2014-15	70,02,461/-
4	Extension of Girls Hostel	2014-15	17,53,000/-
5	Jaggery Plant	2014-15	2,23,939/-
6	Museum and Planetarium building	2014-15	1,18,18,579/-
7	Internal Campus Roads	2013-14	14,23,884/-
8	Cafeteria	2012-13	53,76,381/-

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

The Institute takes due care to ensure that the facilities meet the needs of physically disabled students. In this regard, Ramps are provided for easy movement of wheel chairs.

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

- **Hostel Facilities**

The institute has separate hostel campus for boys and girls students. To cater the needs of residential students, maintenance and administration of hostel campus a dedicated hostel staff along with residential rector are appointed.

- Girls Hostel:

Sr. No.	Hostel name	Rooms	Capacity	Area[Sqm]
1	Savitri	71	284	2103.22
2	New Hostel	50	200	1469.48
	<b>Total</b>	<b>121</b>	<b>484</b>	<b>3572.70</b>

- Boys Hostel:

Sr. No.	Hostel name	Rooms	Capacity	Area [Sqm]
1	Phule	32	116	996.00
2	Jawahar	32	132	996.00

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3	Shivaji	32	132	996.00
4	Tilak	32	132	996.00
5	Sir Vishweshvarayya	44	135	1208.28
6	Bhaskar	44	135	1208.28
7	Bhabha	44	135	1208.28
8	Raman	47	138	1852.22
	<b>Total</b>	<b>307</b>	<b>1055</b>	<b>9461.06</b>

Provisions Available:

- **Recreational Facilities:**

The institute has provided necessary recreational facilities in campus for staff and students in terms of play ground, indoor stadium and auditoriums.

- **Computer Facility**

Hostels are provided with Wi - Fi connection to access the Internet.

- **Hygiene facility:**

- In campus there is a separate drinking water purifying plant equipped with UV based filtration scheme. The plant having capacity of 50000 litres per hour. The plant provides separate drinking water line which is distributed in campus.
- There is closed drainage system for disposal of waste water.
- A separate campus housekeeping team is ensuring healthy and hygienic conditions and also the aesthetic view of the residential campus. A supervisor is maintaining all necessary precautionary measures to ensure healthy and hygienic conditions

- **Facilities for medical emergencies**

- Institute provides Medical facilities i.e. First Aid and Ambulance to all staff & students is available.
- Institute has First Aid cum Sick Room (16.62 Sqm) with qualified Doctors visiting daily.
- The institute has a collaboration with its sister concern multi-speciality hospitals for medical emergencies.

- **Library facilities in the Hostel**

Library reading hall is very close to the hostel campus which is made available to all the residential up to Midnight.

- **Internet and Wi-Fi facility**

The institute has a dedicated internet leased line of 50 Mbps bandwidth. The internet Wi-Fi facility, around 1.5 Km diameter, is made available to the students in the campus.

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- **Security**

- The institute has a 24 X 7 security team along with a dedicated Security Officer. The security team including Rector and Wardens ensures desired security measures and maintain a good discipline.
- A CCTV Surveillance System with 32 cameras is installed at various places in the campus.

- **Residential facility for faculty**

- Teaching staff - 24 Quarters
- Non Teaching - 16 Quarters

- **Guest House**

- One guest house accommodating 16 guests at a time

**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?**

First Aid cum Sick Room is readily available in the campus. Ambulance service is also available in case of hospitalization required student or staff to the nearby hospital in emergencies. However there are 2 large polyclinics run by our own management situated within 2 Km area.

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

- **IQAC:**

Internal Quality Assurance Cell has been constituted by the institution to monitor and suggest for the improvement in the quality of services to the stakeholders. The management of the institute is taking periodic review of the execution of plans and activities.

IQAC space available : 38.32 Sq. meter

- **Grievance redressal unit:**

Grievance redressal committee is headed by Principal as a chairman along with faculty and student representatives as members. This committee addresses and solves issues related to students.

Grievance redressal unit space available: 21.00 Sq. meter

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- **Women's Cell:**

- The institute has a separate Women's Cell constituting Girls students' representative, ladies faculty representative and senior faculty from institute.
- This cell organizes various events especially for girl students and ladies staff such as women empowerment programs, health awareness programs, career development programs etc.

Women's Cell space available: 21.00 Sq. Meter

- **Counseling and Career Guidance:**

- Institute has a very strong Career Development Cell (CDC). This cell constitutes faculty representatives and students from all programs of study.
- CDC cell plans and organizes various workshops, guest lectures, training programs related to career development of the students in Civil Services, Competitive Examinations, Armed Forces Examination, Engineering Services, Higher study guidance through GATE, GRE, CAT, GRE & TOEFL examination.
- Every faculty member in each department is associated with approximately 20 students in the related department to counsel the students through mentor scheme.
- The faculty councillor deals with attendance regularity, academic performance and discipline, career guidance and motivation of these students. The faculty councillor is required to conduct periodic meeting with the students and required to keep records of the same.

Counseling and Career Guidance space available : 30.00 Sq. Meter

- **Placement and Training:**

- The Institute has a separate Training and Placement cell headed by a Central Training and Placement Officer (TPO) with one faculty coordinator from each department.
- The Training and Placement cell plans and organizes Campus Recruitment drives for all program's study.
- The Training and Placement cell emphasises on training programs required for improving the employability skills required for the students. These employability skill programs are planned for the students from First year to Final year students.
- Major Training programs includes Communication Skills



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development, Aptitude skill development, soft skill development, Group Discussion, Personal Interview skills etc.

Training and Placement space available: 30.00 Sq. meter

- **Health Centre:**

- Health center facilities i.e. First Aid and Sick Room for all staff & students is available.
- A qualified doctor is available round the clock.
- The institute has a collaboration with its sister concern multi-speciality hospitals for medical emergencies.

**Health Center space available: 16.62 Sq. meter**

- **Canteen:**

Sr. No.	Particulars	Capacity	Area (Sq.m)
1.	Canteen	200	422.00
2.	Boys Hostel Cafe	50	75.00
3.	Girls Hostel Cafe	25	40.00
4.	Mess for Boys	350	648.90
5.	Mess for Girls	300	629.00

- **Recreational spaces for staff and students:**

- Indoor games are available for both staff and students.
- Gymnasium is available for the students.
- Swimming pool, play ground, auditorium are provided to students and staff.

- **Safe drinking water facility:**

- There is a separate drinking water purifying plant equipped with UV based filtration scheme. The plant provides separate drinking water line is distributed in campus with 50000 litres per day capacity.
- All the departments and common centres are having water filters and coolers. Many small capacity storage water filter sets are also available at various places.

- **Auditorium:**

Two specious open air auditorium (2000.00 Sq. meters) and one indoor auditorium hall with 1000 audience capacity (940.80 Sq. Meters) are provided in the campus for the common activities and events organized for students.

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In addition one conference hall and five seminar halls are available for technical and non-technical activities.

- **Other Facilities**

- Banking facility with extension counter and ATM is available within the campus.
- The institute has dedicated 33 KVA express feeder electricity line and 125 KVA energy efficient Diesel Genset facilities
- Transportation facility with 6 buses is made available.

#### **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?**

- **Advisory Committee**

Library has an Advisory Committee to decide the policies and development of the library. The structure the Library Advisory committee is as follows

<b>Sr. No.</b>	<b>Designation</b>	<b>Status</b>
1	Principal	Chairman
2	Vice-Principal	Co-ordinator, Central Library
3	Librarian	Member Secretary
4	All Heads of Department	Member
5	Department Faculty Representative	Member
6	Library Support Staff	Member
7	Students Representatives	Member

inimum four meetings are arranged in each year (Twice in each semester).

The Library Committee approves all the proposed rules and major decisions regarding the smooth functioning of the day to day library work.

Library Advisory Committee focuses on following topics:

- Purchasing of books, subscribing of e-journals etc.
- Books circulation
- Book bank
- Utilization of e-resources
- Reading hall timings

- **Significant Initiatives under taken by Library**
  - Book bank scheme for meritorious students
  - e-Books Repository
  - Career Development, Competitive examinations books & periodicals section.
  - Organization of Books Exhibitions, Book Talk on different occasions and News Papers Clippings.
  - Orientation Programmes about library facilities and library services
  - Active participation for publishing students research papers in the Institute research journal-Tech-Vishwa National Research Journal.

#### 4.2.2 Provide details of the following:

- **Section wise area of Central Library:**

Sr. No.	Description	Areas in Sqm
1	Stack Section	431.00
2	Reference & P. G. Section	79.83
3	Technical Journals Section	46.50
4	Book Bank Section	16.00
5	Processing Section	33.68
6	Digital Library	48.44
7	Reading Hall (Separate for Boys and Girls)	349.91
8	Staff Section	25.00
9	Bound Volumes Section	44.95
10	Newspapers Section	63.89
<b>Total Area of the library (in Sqm)</b>		<b>1139.20</b>
<b>Total Seating capacity</b>		<b>300 seats</b>

- **Working Hours (on working days, on holidays, before examination, during examination days, during Vacation):**

Sr. No.	Particulars	On All Working Days	Before Examination	During Examination	During Vacation
1	Library	8.00am – 6.30pm	8.00am – 5.00pm	8.00am – 5.00pm	8.00am – 5.00pm
2	Reading Hall	Up to 6.30pm	Up to 8.00pm	Up to 12.00pm All Sundays and Holidays	Up to 5.00pm

- **Layout of the Library (including reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
  - Separate reading sections with good ambiance and relaxed

- Lounge area for browsing – In All Sections.
- IT Zone for accessing e-resources – Separate section for Digital library having 30 nodes with Internet connectivity in Central library. Wi-Fi connectivity is available in the library. IP based access to e-resources, NPTEL Video Lectures which can be accessible in institute campus.





and reading materials are invited from all programs of study in the institute. The recommended requisitions are finalized in Library Advisory Committee meeting and then upon approval of purchase committee the purchase orders are issued.

**Procurement of Library Last 4 Years: - (Collection added in last 4 years in Rs.)**

Library Holding	2012-13		2013-14		2014-15		2015-16	
	Nos.	Total Cost	Nos.	Total Cost	Nos.	Total Cost	Nos.	Total Cost
<b>Text books</b>	2587	1300188	2273	1088812	2836	1431228	1953	1097671
<b>Reference books</b>	59	300485	30	84887	4	7824	-	-
<b>Journals/ Periodicals</b>	81	144598	81	175093	77	163837	76	169720
<b>E-Journals</b>	1026	1486800	1026		1028	1617924	35	206678
<b>E – resource [E-Books, NPTEL Videos]</b>	2	35150	-	-	-	-	918	80000
<b>Any Other [Barcode Scanner]</b>	2	8085	-	--	-		-	-

**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) is made available through Library Management Software to know the bibliographical details about the collection. The Web OPAC facility is made available on institute intranet to access anywhere in the campus.
- One separate node is made available in the Central Library for OPAC facility

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

The Library has a collection of the subscriptions of ERM package for e-journals, e-transactions, text book e-content services and e-magazines.

The library is subscribing total 1026 e-journals of ASCE, IEEE, Springer, Science Direct, ASTM Digital Library, and McGraw Hill Access Engg.

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

A facility of Federated search portals, either commercial or open access, generally for searching public in access bibliographic databases is made available. Through this facility students and staff can have public access to Web-based library catalogues (OPACs), Web-based search engines like Google Scholar and/or open-access, government-operated or corporate data collections. Users can search and downloaded the required articles from the open ware journals.

- **Library Website**

Library web page provides detail information about library resources, facilities and announcements. It also provides downloads section for most important resources such as University Question Paper repository, e-book links, NPTEL videos etc.

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

A well equipped Digital Library of 30 nodes having internet connectivity is available in the Central Library for access to e-journals, e-books, NPTEL Video Lectures and other e-publications. Also these e-resources can be accessed on institutional intranet throughout the campus.

- **Library Automation**

Library automation is carried out by the professional Library Management Software. The bibliographic databases of all the volumes and titles is prepared and made available on Web OPAC

The circulation of books has been activated through barcode system to the staff and students. All kinds of reports for library resources can be generated through library management software. The major tasks performed through library management software are: generating reports of Accession Register, collection of books, circulation of books, daily utilization reports of books, individual reports of students and staff, barcodes generation for students and staff, barcodes of books and bibliography of library resources.

- **Total number of computers for public access**

- 30 computers in digital library section.
- 1 computer for OPAC.
- 4 computers for acquisition, circulation and administration.
- 1 computer CD/DVDs carousals

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

Total three printers are available.

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- **Internet bandwidth speed**

The Internet bandwidth of 50 Mbps is available.

- **Institutional Repository**

Separate dedicated server for the Library Software is available. Separate dedicated server for the e- content management is available.

- Article Repository : Published research paper/article of the faculty members
- Books Repository : Published books of the faculty members
- Thesis Repository : Awarded ME and Ph.D. Thesis of students and Faculty

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

Library is having content management system for e-learning maintained with NAS Server which is utilized for managing and storage of digital learning resources such as NPTEL Video repository, E-books, Whitepapers, E-Journals etc with excellent streaming capability.

This facility is available for e-learning to the students on intranet

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

Library is subscribing total 1028 e-journals from the INDEST-AICTE Consortium, IBH, Mumbai and GIST, Gurgaon, Haryana.

#### **4.2.5 Provide details on the following items:**

Average number of walk-ins	480
Average number of books issued/returned	377
Ratio of library books to students enrolled	19:1
Average number of books added during last three years	2596
Average number of login to OPAC	427
Average number of login to e-resources	3739
Average number of e-resources downloaded/printed	3437
Number of information literacy trainings organized	10
Details of “weeding out” of books and other materials	139

#### **4.2.6 Give details of the specialized services provided by the library**

- **Manuscripts**

Library has provision to maintain manuscripts services



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- **Reference**

A separate reference section with rich collections of Encyclopaedias, Handbooks, Directories, Dictionaries, manuals and also general reference materials are available in the reference section. Personal guidance for searching the required information, searching of reference books is given by the library staff.

- **Reprography**

Reprography facility in terms of photo copier machine, all-in-one printers and scanners are available in the library for the benefit of users.

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

As library is having Inter Library Loan Service from sister concern Institute Y. C. Warana Mahavidyalaya, Warananagar. The users benefit from library services of this library. Apart from this Library has membership for the following reputed libraries

- Barr. Balasaheb Khardekar Library, Shivaji University, Kolhapur.
- IIT Library, Mumbai
- NCL Library, Pune
- ARAI Library, Pune

- **Information deployment and notification**

- On arrival of new books, journals, magazines etc. information is displayed on a separate display board
- The information of library collections is available through Web OPAC.
- Din Vishesh, Newspapers Clippings and Institutional News and Notices / Circulars are displayed on the library notice boards.

- **Download**

E-journals subscribed by the library can be downloaded by stakeholders in Digital Library and throughout the campus.

- **Printing**

Printing and reprographic facility is available for the users.

- **Reading list/ Bibliography compilation**

Central Library has maintained digital catalogue (OPAC) which provides all the details about the books.

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

A well equipped Digital Library of 30 nodes having internet connectivity is housed in the Central Library for access to e-

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journals, e-books, NPTEL Video Lectures and other e-publications. As the access facility to e-journals is multi-user and IP address-based the students and staff can access the e-publication from anywhere in the campus with Wi-Fi facility.

- **User Orientation and awareness**

User orientation programmes are conducted at the time of every academic year for students of first year and directly admitted to second year. New arrivals are displayed in the library for the information of users and the list of the same is provided to the concern department.

- **Assistance in searching Databases**

The library staffs assist the users in searching the required information / books available with various sources. Training session for effective searching is also arranged to make the users aware about the advanced searching technique.

- **INFLIBNET/IUC facilities:**

INFLIBNET facility is made available with the collaboration from Yashvantrao Chavan Warana Mahavidyalaya, Warananagar.

The subscribed e-resources under N-LIST programs are made available through registered user ids to students and faculties.

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

Library staff provides the necessary support to the students and faculty according to their needs for accessing and circulation books, assistance for Reference section-resources and reprographic facility. Library staff also organizes the library awareness programs to the users.

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

- Direct entry from the ground floor.
- Special seating arrangement is available.
- Prioritized preference for the requested library services.

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

Library takes feedback from its users in

1. Prescribed Library Feedback Form.

2. Online Library Feedback Portal
3. Suggestion Box.
4. Collective suggestions from Student's representatives of Library Advisory Committee.

The feedback information is analyzed by the library advisory committee and necessary action taken for further improvement of the library.

### 4.3 IT Infrastructure

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

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

Sr. No.	Equipment	Qty	Specification
1	Dell Server Power Edge R420	1	Intel® Xeon® E5-2407 2.20GHz, 8GB RDIMM, 1333 MHz, 2 X 1TB Hard drive
2	Dell Server T-110I	2	Intel Quad Core Xeon 5405 2.0Ghz, 8GB, 4 X 500 GB Hard Drive, DVDRW Disk Drive, Intel®5000x Chipset Mother Board,,
3	Dell Server T-110I	1	Intel Quad Core Xeon 5405 2.0Ghz, 8GB, 4 X 500 GB Hard Drive, DVDRW Disk Drive, Intel®5000x Chipset Mother Board,,
4	Dell Server Power edge 2990	1	Intel Quad Core Xeon 5405 2.0Ghz, 8GB, 4 X 300 GB Hard Drive, DVDRW Disk Drive, Intel®5000x Chipset Mother Board,,
5	DELLSERVER POWEREDGE2900	2	Intel Quad Core Xeon 5405 2.0Ghz, 4GB, 146GB Hard Drive, DVDRW Disk Drive, Intel®5000x Chipset Mother Board,, Dual Gigabit Ethernet NIC 17 "TFT
<b>Total Server</b>		<b>7</b>	
1	DELL OPTIPLEX 3020 Intel i3	260	Intel i3 3.10 Ghz, 4GB DDR3, 500GB SATA, IntelGraphics Media Gigabit Lan, DELL™19" Flat LCD Monitor
2	DELL OPTIPLEX 3010 Intel i3	50	Intel i3 3.10 Ghz, 2GB DDR3, 500GB SATA, IntelGraphics Media Gigabit Lan, DELL™19" Flat LCD Monitor
3	DELL OPTIPLEX 390 Intel i3	150	Intel i3 3.10 Ghz, 2GB DDR3, 500GB SATA, IntelGraphics Media Gigabit Lan, DELL™19" Flat LCD Monitor

4	DELL OPTIPLEX 390 Intel i5	50	Intel i5 3.10 Ghz, 2GB DDR3, 500GB SATA, IntelGraphics Media Gigabit Lan, DELL™19" Flat LED Monitor
5	DELL OPTIPLEX 380	150	Intel Core™2 Duo, 2.93 Ghz, 2GB DDR3, 320GB SATA, IntelGraphics Media Gigabit Lan, DELL™19" Flat LCD Monitor
6	DELL OPTIPLEX 360	200	Intel Core™2 Duo, 2.93 Ghz, 2GB DDR3, 320GB SATA, IntelGraphics Media Gigabit Lan, DELL™15" Fiat LCD Monitor
7	Dell Laptop 1014, 1015	15	Intel i3 3.10 Ghz, 2GB DDR3, 500GB SATA, IntelGraphics Media Gigabit Lan, 15.6 LED Display
<b>Total Desktop</b>		<b>835</b>	

- **Computer -student ratio:** 1:4
- **Stand alone facility:** 80 Desktops in Central Computing Facility
- **LAN facility:** Computer Center labs local area network is of 1 GBPS capacity. All computer labs are connected to Central Server room through 10GBPS managed Optical Fiber Network. All the networks are interconnected through Virtual LAN and termed as Campus Wide Network.
- **Wi-Fi facility:** Entire campus has Wi-Fi facility of 300 MBPS throughput with 67 High Gain Industrial Wireless Outdoor Antenna
- **Reprographic and Scanning:** The institute has total
  - 91 printers, 2 photo copiers, 1 Digital cyclostyle
  - 5 all in one scanners and
  - 24 flat bed scanners
- **Teaching Aids:** Total 45 LCD projectors are provided at various places.
- **Licensed Software:**  
The institute has a rich collection of Licensed Software grouped into System Software (Operating Systems) and Application Software (Specialized Software)

**A) Licensed System Software List:**

Sr.No.	Software	Quantity
1	Windows Server(2003-2008)	7
2	Windows XP Sp3, Windows 7, Cal For Server	870
<b>Total</b>		<b>877</b>

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**B) Application Software (Specialized Software) List:**

Sr. No.	Software	Quantity
1	Visual Studio ProWMSDNPro ALNG LicSAPk OLP NL AcdmcQlfd	2
2	Visual Studio Pro 2008 SNGL OLP NL Acdmc	80
3	VisioPro 2007 SNGL OLP NL Acdmc	1
4	OfficeProPlus 2007 SNGL OLP NL Acdmc	75
5	Microsoft Academic SQL Svr Standard Edtn 2008 Sngl OLP NL	3
6	MS SQL CAL 2008 SNGL OLP NL AcdmcDvcCAL	70
7	Adobe CS4 Web Premium AE Full Pack with media	1
8	Adobe CS4 Web Std AE Full Pack with media	1
9	Oracle 11 G Std edition ONE with media	10
10	Oracle 12C G Std edition ONE	10
11	.Net Developer	1
12	ASPEN PLUS	10
13	CFD TUTOR	10
14	UniSim	100
15	CATIA V 5 R15	5
16	Solidworks	30
17	Ansys 12.0	5
18	Witness	10
19	IDEAS Artisan	2
20	Ideas Master	4
21	Autocad 2002	4
22	Ansys 5.5	1
23	Autocad Inventor	10
24	Borlan C & C++	37
25	Nasa V20	1
26	Promax	50
27	Simulator WSIM85	6
28	SPJ simulator	8

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29	SPJ's C Compiler	5
30	MATLAB 7.1 Software	1
31	ORCAD9.1 Software	10
32	Circuit Maker Software	1
33	Turbo C++	5
34	Ansys 14.5	15
35	Matlab 2010 B 7.11	10
36	Matlab Basic 20100 B (7.11)	10
37	Matlab Tool Box	12
38	Staad pro 2001	12
39	Staad pro 2005	12
40	Sap 2000 V14	10
41	Etabs 9	10
42	Msproject 2007	5
43	Ensoft Build master/Road mater/Steel Master/Rate ananlyis	10
44	Autocad 2004	20
45	Orcad	5
46	Matlab 5.3	1
47	SPJ System	1
48	Xilinx 6.2i	1
49	Multisim 10.1	6
50	Symantec Endpoint Protection 12.1 Sute	451
51	Quick HealEndpoint 6.2	400
<b>Total</b>		<b>1560</b>

- **Number of nodes/computer with Internet facility: 835**

- **Any other:**

The institute has established a central System and Networks Support system. Entire IT Infrastructure is managed centrally in Server Room. Some of the features of the Central IT Infrastructure management are listed below

- 
- Fully Remote Manageable 10Gbps L3 Switching in Central Data centre with 1Gbps at Department Computer Labs
  - 20 MBPS NKN Internet Line BSNL Optical Fiber
  - 30MBPS 1:1 Internet Leased Line BSNL Optical Fiber
  - Cyberoam UTM Firewall gateway used for security, user base, bandwidth base, content base management of the network. UTM Deployed for wired and Wi-Fi connectivity
  - VPN connectivity under National Knowledge Network (NKN)
  - All Buildings are connected through redundant Optical fiber network to central server room for effective and remote management of IT resources.
  - Excellent Server Matrix with Hi-end Server & NAS Storage consisting of:
    - ERP Automation servers.
    - Library Automation Server, KOHA Software
    - Central Content Management Server for NPTEL & other E-resources
    - Central Moodle CMS & FTP Server
    - Central Antivirus Server
    - Central License Server
    - Central Wi-Fi Controller
    - RIS Server: Provide remote installation service
    - In Campus Web hosting & Mail service
    - VSAT Installed by Evronn Education.
    - Generator backup of 125KVA for Administrative & Academic Building
    - Significant UPS with good battery backup for Server Room and various Computer Systems.
    - CCTV Surveillance throughout campus

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

- Every computer in the campus is connected to Internet facility through campus wide network.
- The campus wide network consists of 21 computer centers with 835 terminals connected to structured 1 Gbps LAN with Internet facility

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of 50 Mbps internet leased line

- Students and the faculty accesses internet and e-learning resources with Wi-Fi facility made available on campus and off- campus.

Summary of Campus Wide Network

Name of the Internet provider	BSNL
	NKN BSNL
Available bandwidth	BSNL- 30Mbps
	NKN- 20Mbps
Access speed	1GBPS
Availability of internet in an exclusive lab:	Yes
Availability in most computing labs:	Yes
Availability in departments and other units	Yes
Availability in faculty rooms	Yes
College's own e-mail facility to faculty/students	Yes
Security/privacy to e-mail/internet users	Yes

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

- The institute has System and Network Support [SNS] department chaired by Principal, along with System analyst and support engineers.
- The SNS department invites and evaluates proposals for IT infrastructure from various programs of study. Upon approval by SNS department these proposals are forwarded to purchase committee for final sanction.
- The SNS department always attempt to fulfil the norms given by Apex bodies IT infrastructure. Also it ensures licensing and deployment policies of various licensing agencies.
- The SNS department periodically investigate, audit and analyse the needs of up gradation of IT infrastructure and associated facilities.
- Major upgradations, deployments and new IT infrastructure and associated facilities established by SNS department recently are as follows.
  - Upgradation of 10Mbps Leased Line Internet connectivity to 30 Mbps Leased Line over redundant Optical fiber network and 20 MBPS NKN Connectivity. All ISP lines having very high fault



tolerance for Internet connection.

- Institute level mail server, interactive LCD projectors in department classrooms are made available.
- Upgradation of video conferencing facility in collaboration with MHRD.
- Campus network upgrades addressing sustainable infrastructure through improvements in energy efficient networking and the growing needs in mobile networking.

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

Sr.	Financial	Provision in	Utilization	Remarks
1	2014-15	75,00,000	75,07,746	Procurement of Computers
		15,00,000	13,08,591	Up gradation of System & Network Equipment.
		18,00,000	17,98,317	Internet Leased Line Upgrade from 20 MBPS to 30 MBPS
		<b>Total Rs.</b>	<b>1,06,14,654</b>	
2	2013-14	40,00,000	38,74,964	Procurement of Computers
		13,00,000	12,67,570	Up gradation of System & Network Equipment.
		25,00,000	24,21,698	Internet Leased Line Upgrade from 10 MBPS to 20 MBPS
		<b>Total Rs.</b>	<b>75, 64, 232</b>	
3	2012-13	63,00,000	62,78,188	Procurement of Computers
		15,00,000	14,53,200	Up gradation of System & Network Equipment.
		17,00,000	16,57,156	Internet Leased Line
		<b>Total Rs.</b>	<b>93,88,544</b>	
4	2011-12	29,00,000	28,11,375	Procurement of Computers
		3,00,000	2,92,200	Up gradation of System & Network Equipment.
		13,00,000	12,59,739	Internet Leased Line
		<b>Total Rs.</b>	<b>43,63,314</b>	

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

The institute promotes extensive use of ICT facilities by making available all required ICT resources, computer-aided teaching/ learning materials and organizing various events through ICT.

- **ICT Facilities and computer-aided teaching/ learning materials Available:**

- Central Data Center Equipped with extensive servers and data storage repositories.
- NAS Server: Utilized for managing and storage of digital learning resources such as NPTEL Video repository, E-books, Whitepapers, E-Journals etc with excellent streaming capability.
- Under this repository a good collection of animations, simulations and modeling softwares are available for every branch of study.
- Multimedia systems are made available for the faculty and students. The faculty members can use these multimedia systems for content preparation of their course delivery.
- Audio-Visual Lab and Seminar Hall, Video Conference room used for ICT activities.
- Facility to conduct online exams, course wares, assignments, tutorials, question bank, collaborative learning, and discussion forums are made available through Moodle Content Management System.

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

- The institute organizes expert lectures through video conferencing.
- All of the departments have their modeling and simulation software and computing resources for the use of students and faculties.
- The institution has MoU with the various renowned industries for the training of students on technologies. These industries organize and conduct lots of online training programs and events.
- The institute is frequently organizing Webinar series from Indo US

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Collaboration for Engineering Education (IUCEE), Infosys Campus Connect Program, TCS Campus Commune, Syntel, Amazon and many more.

- **Events and activities organized by the institute using ICT infrastructure:**

Under the National Mission on Education through ICT (NMEICT), funded by the Ministry of HRD, Government of India IIT Mumbai, IIT Kharagpur and ISTE organized and conducted various activities as listed below.

The aim of these events is to empower students and teachers through synchronous and asynchronous instructions for integrating their knowledge with the latest advancement in the technology. Under NMEICT project, 19 workshops on various engineering topics were conducted in the Institute. The institute is the authorized Remote Center with RCID 1028 for IIT Mumbai & IIT Kharagpur. Some of the notable workshops and events are:

- ICT workshop for faculties Amal Jyoti College of Engineering, Kerla. (Nodal Center NC-129)
- IIT Chennai conducted one ICT workshop for Faculties on NPTEL (Nodal Center NC-017)
- MHRD, Government of India conducted 4 Main ICT workshop on Digital Literacy and E- Learning (Nodal Center NC-017)
- Institute has established Virtual Lab Nodal Centre and conducted various workshop for Faculty & Students
- Institute has undertaken IITB Spoken Tutorials Project with Center ID Is MAH002 with Ranking 2, Aakash Research Center, E-Yantra Project Center,
- In addition to this a facility of Massive Online Open Courseware (MOOC) and Web Podcasts, Webinars, Interactive Courseware Portals are made accessible in the Institute campus network.
- Moodle (Modular Object Oriented Dynamic Learning Environment) Learning Management System is available in the Institute.
- Institute has a tie-up with NPTEL Project of IIT Chennai for online certification program. NPTEL system makes available a number of video lectures for different engineering streams and subject's material through NPTEL is of 12TB in size.
- The institute understands that the teachers have to be reoriented from time to time. The institution encourages the staff and technical assistants to undergo training on the computer-aided teaching and training and conducts departmental seminars and workshops for training on computer applications.

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

- YES, the institute has connectivity with National Knowledge Network. The NKN connectivity is sponsored by MHRD and supported by BSNL,
- As a participant of NPTEL project institute has vast collection of 96000 Video Lectures for different engineering streams and subjects.
- The digital repository received from NPTEL NKN Project is around 12TB in size maintained and archived in central servers.
- The institute is authorized remote centre to conduct various online and remote workshops organized by eminent professors from IITs under NMEICT project of MHRD, Government of India. As of today, 25 such workshops have been conducted.

Indian Institute of Technology, Mumbai					
Sr. No.	Workshop Title	Organizer	Start date	End date	Participants
1	Two Week ISTE STTP on Engineering Physics	Prof. Shiva Prasad and Prof. Dipan K. Ghosh	December 8th, 2015	December 18th, 2015	21
2	Two Week ISTE STTP on Technical Communication	Prof. P. Sunthar	30th Nov 2015	5th Dec 2015	48
3	Two Week ISTE STTP on Environmental Studies	Prof. Virendra Sethi, Prof. K Narayanan	June 2nd, 2015	September 14th, 2015	28
4	Two Week ISTE Short Term Training Programme (STTP) on Pedagogy for Effective use of ICT in Engineering Education	Prof. Sahana Murthy Prof. Sridhar Iyer	January 5th, 2015	January 31st, 2015	30

5	Two Week ISTE Main Workshop on Cyber Security	Prof. Bernard L. Menezes and Prof. Sivakumar	July 10th, 2014	July 20th, 2014	52
6	Two Week ISTE Main Workshop on Computer Networking	Prof. Kameswari Chebrolu	June 30th, 2014	July 5th, 2014	57
7	Two Week ISTE Main Workshop on Computer Programming	Prof. Deepak B. Phatak and Prof. Sridhar Iyer	May 20th, 2014	June 21st, 2014	27
8	Two-Week ISTE Workshop on Engineering Mechanics	Prof. Mandar M. Inamdar and Prof. Sauvik Banerjee,	November 26th, 2013	December 6th, 2013	62
9	Half Day ISTE Workshop on Green Building Awareness	Prof. Monika Jain & Prof. Jiten Prajapati & Prof. Jayant K Nayak & Prof. Swati Chokshi & Prof. Rangan Banerjee	August 24th, 2013	August 24th, 2013	187
10	Two-Week ISTE Workshop on Database Management Systems (Main Workshop)	Prof. S. Sudarshan	May 21st, 2013	May 31st, 2013	41
11	Aakash Android Application Programming Workshop for Students	Team Aakash	February 23rd, 2013	March 3rd, 2013	250
12	2-Day ISTE Workshop on Research Methods in Educational Technology	Prof. Sahana Murthy & Prof. Sridhar Iyer	February 2nd, 2013	February 9th, 2013	52

13	2-Week ISTE Workshop on Engineering Thermodynamics	Prof. U. N. Gaitonde, Prof. U. V. Bhandarkar, Prof. Bhalchandra Puranik	December 11th, 2012	December 21st, 2012	82
14	2 days ISTE Workshop on Aakash for Education	Prof. Deepak B. Phatak, Prof. Uday Gaitonde, Prof. Kannan Moudagalya	November 10th, 2012	November 11th, 2012	85
15	Introduction to Research Methodologies	Prof. Shreepad Karmalkar, IIT Madras, Prof. Uday Gaitonde, IIT Bombay, Prof. Uday Gaitonde, IIT Bombay, Prof. Santosh Noronha, IIT Bombay	June 25th, 2012	July 4th, 2012	72

Indian Institute of Technology, Kharagpur					
Sr. No.	Workshop Title	Organizer	Start date	End date	Participants
1	Two Week ISTE STTP on Introduction to Design of Algorithms	Prof. Partha Pratim Chakrabarti, Prof. Partha Pratim Das, Prof. Pallab Dasgupta	25-May-15	30-May-15	52
2	Two Week Main Workshop on Control Systems	Prof. Siddhartha Mukhopadhyay, Prof. Tapan Kumar Ghoshal	15-Sep-14	19-Sep-14	85

3	Two Week Main Workshop on Fluid Mechanics	Prof. Sankar Kumar Som, Prof. Suman Chakraborty, Prof. Sandipan Ghosh Moulic	20-May-14	30-May-14	77
4	Two-Week Main Workshop on Signals & Systems	Prof. Vikram M. Gadre, Prof. Somnath Sengupta	2-Jan-14	January 12th, 2014	22
5	Two-Week Main Workshop on Analog Electronics	Prof. Anindya Sundar Dhar, Prof. Pradip Mandal, Prof. Indrajit Chakrabarti, Prof. Achintya Halder	June 4th, 2013	14th, 2013	38

**Amal Jyoti College Of Engineering, Kerala ICT Workshop Under NKN**

Sr. No.	Workshop Title	Organizer	Start date	End date	Participants
1	Two day e-Seminar on Steps 2 Research	<b>Prof. Syam Gopi</b>	19 Sept 2014	20 Sept 2014	49

**Indian Institute of Technology, Chennai**

Sr. No.	Workshop Title	Organizer	Start date	End date	Participants
1	NPTEL Awareness Programme	Nasir Ahamad	5 <sup>th</sup> Sept 2013	5 <sup>th</sup> Sept 2013	150

**Ministry of Human Resource Development, Government of India.**

Sr. No.	Workshop Title	Organizer	Start date	End date	Participants
1	Digital Locker Facility Centre	MHRD Person	25-May-15	30-May-15	30
2	Digital India Week	IIT Bombay	15-Sep-14	19-Sep-14	185
3	Digital India Week	MHRD, AICTE	20-May-14	30-May-14	107
4	Digital India Week	Spoken Tutorial	2-Jan-14	January 12th, 2014	147

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#### 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)?

Sr. No.	Particulars	2014-15 (in Rs. Lakh.)		2013-14 (in Rs. Lakh.)		2012-13 (in Rs. Lakh.)		2011-12 (in Rs. Lakh.)	
		Budget	Actual Exp	Budget	Actual Exp	Budget	Actual Exp	Budget	Actual Exp
1	Building	75.00	76.43	70.00	74.60	40.00	40.48	32.00	31.87
2	Furniture	5.00	5.33	4.00	3.96	0.75	0.49	1.00	0.93
3	Equipment and Computers	75.00	71.93	25.00	23.45	8.00	7.43	4.00	3.31
4	Vehicles	3.00	3.01	2.00	1.46	2.00	2.33	0.75	0.52
5	Any other (Campus)	50.00	58.92	50.00	49.12	12.00	11.84	10.00	11.67

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

- An Infrastructure Coordinator is appointed 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 routine maintenance of civil works as well as another maintenance like such as furniture repairs, painting, carpentry, plumbing and house-keeping work with the help of Workshop Superintendent and his team members.
- Electrical maintenance is carried out by electrical section led by electrical engineer and his team regularly.
- Laboratories equipments are serviced and maintained by competent man power in respective departments along with central maintenance units like SNS, Workshop, Civil Maintenance and electrical section.
- There is transportation in charge who looks after the maintenance of vehicles by sending them for service periodically and attending to the repairs as and when required.



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

- Calibration of equipment, instruments is carried out as per standards and guidelines provided for it.
- Various equipment, instruments available in the laboratories are calibrated annually by the other specialized licensed agency.

**4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?**

- The locations of sensitive equipment of the institute are decided by considering minimal impacts of environmental factors.
- To upkeep and maintain sensitive equipment regularly the specially trained persons are appointed.
- In order to deal with voltage fluctuations and constant power supply separate provisions of UPS systems with adequate battery backup are provided. Apart from this institute has established a dedicated 33 KVA Express electricity line with load distributor panel and 125 KVA energy efficient Diesel Genset facilities.
- To ensure constant water supply, the institute has established 10 MLD water tank with water filter and purification plant.
- Appropriate safety measures for special equipment and machineries are taken care by respective sections/units such as Fire extinguisher
- Sensitive equipment are taken care of by using prescribed and précised sensors to monitor and control environmental parameters.
- Institute is under the electronics surveillance systems.

# **Criterion V**

## **Student Support and Progression**

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## 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, the institution publishes prospectus every year. It provides all the necessary information for the students seeking admission in the institute.

Prospectus contains following information.

- Vision and Mission of the Institution
- Institute Profile
- Courses Offered and Intake
- Academic Calendar
- Campus Facilities
- Student Activities
- Major Recruiters

Information brochure is distributed to the students during the orientation program. It contains academic calendar, course structure, faculty list, list of office in-charges, list of reference books, institute and office timings, rules and regulations, library amenities. The institute fulfills its commitment to the students by providing quality education, ensuring accountability to all the stakeholders.

The other source of information is available on the college website <http://www.tkietwarana.org>

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

Institute provides financial assistance every year under various schemes for welfare of UG students. Meritorious students, Class/University toppers, economically weaker students, GATE qualifiers, employee's children studying in college are the beneficiaries.

### Institutional Financial Assistance to UG Students

Type of Scholarship	No. of Students received financial assistance				
		2011-12	2012-13	2013-14	2014-15
<b>Tatyasaheb Kore W.S.S.K. Scholarships</b>	No. of Students.	119	134	138	160
	Date	21-02-2012	03-01-2013	03-02-2014	05-01-2015
	<b>Amount (Rs)</b>	<b>4,46,999.00</b>	<b>4,86,932.00</b>	<b>5,12,570.00</b>	<b>5,86,532.00</b>
<b>SWVSM Tatyasaheb Kore Scholarships</b>	No. of Students.	67	68	71	67
	Date	12-03-2012	19-02-2013	11-03-2014	20-03-2015
	<b>Amount (Rs)</b>	<b>1,35,066.00</b>	<b>1,33,316.00</b>	<b>1,40,571.00</b>	<b>1,38,067.00</b>
<b>GATE Qualifier Reward</b>	No. of Students.				21
	Date				08-05-2014
	<b>Amount (Rs)</b>				<b>30,000.00</b>
<b>Employee Ward Scholarships</b>	No. of Students.			14	18
	Date			03-03-2014	31-03-2015
	<b>Amount (Rs)</b>			<b>2,21,557.00</b>	<b>2,14,518.00</b>
<b>Late Dr.C.R. Rao Engineers education Scholarship fund only for S.E Students</b>	No. of Students.				1
	Date				15-03-2015
	<b>Amount (Rs)</b>				<b>40,000</b>
<b>Tatyasaheb Kore Fee concession (Backward Class)</b>	No. of Students.	10	05	05	05
	Date	23-12-2011	31-12-2012	03-03-2014	31-03-2015
	<b>Amount (Rs)</b>	<b>1,24,523.00</b>	<b>1,59,561.00</b>	<b>1,41,114.00</b>	<b>1,76,265.00</b>
<b>Scholarship to F.E Meritorious Students</b>	No. of Students.			43	79
	Date			27-03-2014	26-03-2015
	<b>Amount (Rs)</b>			<b>25250.00</b>	<b>52000.00</b>
<b>Year Wise Total Amount</b>		<b>7,06,588.00</b>	<b>7,79,809.00</b>	<b>10,41,062.00</b>	<b>12,37,382.00</b>

- Institute gives scholarships and financial assistance to students admitted for PG programmes

**Institutional Financial Assistance to PG Students**

Type of Scholarship	No. of Students received financial assistance				
		2011-12	2012-13	2013-14	2014-15
<b>Tatyasaheb Kore W.S.S.K. Scholarships</b>	No. of Students.	8	8	11	9
	Date	21-02-2012	03-01-2013	03-02-2014	05-01-2015
	Amount (Rs)	21,600.00	21,600.00	29,700.00	24,300.00
<b>Employee Ward Scholarships</b>	No. of Students.	--	--	--	01
	Date	--	--	--	31-03-2015
	Amount (Rs)	--	--	--	23,182.00
<b>Year Wise Total Amount</b>		21,600.00	21,600.00	29,700.00	47,482.00

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

Financial assistance is received by the students under various schemes of State Government, Central Govt. and National Agencies. About 70% of UG and PG students have received the financial assistance during last four years. The details are as below,

**Statistical Information of Financial Assistance**

Type of Scholarship	Agency	No. of Students received financial assistance				
		Academic Year				
		2010-11	2011-12	2012-13	2013-14	2014-15
<b>Scholarship &amp; Freeship to reserved category students</b>	Govt. of Maharashtra	700	809	1005	980	982

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<b>EBC</b>	Govt. of Maharashtra	554	590	623	849	945
<b>STC</b>	Govt. of Maharashtra	70	63	53	41	33
<b>PTC</b>	Govt. of Maharashtra	45	46	54	49	52
<b>Handicap</b>	Govt. of Maharashtra	--	--	2	2	2
<b>Minority</b>	Govt. of Maharashtra	8	14	10	19	12
<b>GATE Qualifier</b>	Govt. of India	--	--	--	1	2
<b>Central Sector</b>	Govt. of India	11	12	27	--	68
<b>Total No. of Students</b>		2151	2218	2687	2778	2904
<b>Percentage (%)</b>		64.52	69.16	66.02	69.87	72.17

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

- a) Students from SC/ST, OBC and economically weaker sections
- b) Students with physical disabilities
- c) Overseas students
- d) Students to participate in various competitions/National and International
- e) Medical assistance to students: health centre, health insurance etc.
- f) Organizing coaching classes for competitive exams
- g) Skill development (spoken English, computer literacy, etc., )
- h) Support for “slow learners”
- i) Exposures of students to other institution of higher learning / corporate / business house etc.
- j) Publication of student magazines
- a) Students from SC/ST, OBC and economically weaker sections
  - i. Students from SC/ST category

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- 100% Tuition fee is waived-off to students.
  - Free Education is given to the students admitted to computer science and engineering under Tatyasaheb Kore fee concession scheme.
  - A special book bank scheme is available to these students in which a set of books is issued free of cost in each semester.

**ii. Students from OBC category.**

- 50% concession in tuition fees is given to these students.

**iii. Students from economically weaker sections**

- 50% concession in tuition fee is given to those students from economically weaker sections the parents of whom have annual income of less than rupees one lakh.
- 100% Tuition Fee concession for the economically weaker students (5%) under Tuition Fee Waiver Scheme (TFWS).

**b) Students with physical disabilities**

- Separate seating arrangement is provided to physically disabled students in the library.
- Ramps are provided in each block of the institute and preferably all facilities are provided to them at the ground floor.
- Preference is given to them while issuing the books in the library during working hours.

**c) Overseas students**

- There are no overseas students admitted in the Institute.

**d) Students to participate in various competitions/National and International**

- Students are motivated by the faculty members for participation in National/ International level Paper, Project & Poster presentation competitions held in various Institutes/Universities.
- Library and laboratory facilities are provided to these students after college hours.
- TA/ DA is given to the students winning prizes in these competitions.
- National Level paper presentation competition- “EUREKA” is organised by the institute every year. A large number of students from the institute participate and many of them won prizes in this competition.

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- National Level project presentation and Industry Problem Solver competition- “JIDNYASA” is organised by the institute every year. A large number of students from the institute participate and many of them won prizes in this competition.
  - Under the faculty guidance students have participated Techfests an Asia’s largest Science and Technology festival in IIT, Bombay.
  - Students participate in “Avishkar” an Intra University Research Project competition organized every year by Shivaji University Kolhapur to inculcate research culture, encourage original and novel thinking among students.
  - Students are motivated and guided by faculty to participate in “TCS Campus Commune” a International level contests hosted every year by TCS. Under this competition events like Kaizen express, Codevita, Enginx Quiz, Photography contest, and programming are conducted. It helps to improve communication skills and computer programming skills.
  - Students from mechanical engineering department have participated in two days workshop on “Metabotics” organized by UVSofts Technologies Pvt. Ltd, Delhi.
  - The state level “ROBORACING” Competition is organized by Mechanical Engineering department every year in which large number of students participate.
- e) Medical assistance to students: health centre, health insurance etc.**
- Group Health Insurance Policy is available for all the students in the institute.
  - Primary Health Care Centre is available for the students in College Campus.
  - A lady doctor is available in the ladies hostel campus.
  - Ambulance facility is available 24x7 in the campus.
  - First aid box is available in the chemistry laboratory and workshops.
- f) Organizing coaching classes for competitive exams**
- There is a Career Development Cell in the institute. The cell guides the students and organizes guest lectures for preparation of various competitive examinations like Combined Defence Services (CDS), GATE, GRE, TOEFL, IELTS, CAT, CMAT, CET, CDAC, SSB, CDS, MPSC, and UPSC.



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- Institute organizes GATE coaching classes for students interested for higher studies.
  - The institute conducts special sessions for Group Discussion, Personal Interview and Online Aptitude Tests which helps the students for their interviews.
  - “Shri. Vinay Kore competitive examinations coaching center” is available in the campus and it is providing guidance for UPSC/MPSC aspirants.

**g) Skill development (spoken English, computer literacy, etc., )**

- Language laboratory facility is available for improving communication and speaking ability of the students.
- Soft skill, Aptitude and Employability Skill development programs are conducted under Training & Placement Cell.
- Personality Development programs are arranged by the institute. These programs helps to boost one’s confidence, widen the depth of knowledge and to develop, learning fine etiquettes and manners, adding style and grace to the way one looks, talks and walks.
- Computer Programming/Domain Specific training programs are conducted at department level.
- Microsoft Certification program for advanced C#.Net programming skills is organized by the institute.

**h) Support for “slow learners”**

- Remedial classes are arranged for slow learners.
- Improvement tests are conducted for such students.
- Question bank and university question papers with model answers are provided to these students which helps them to improve the performance in the university examinations.
- Special counseling is done by their teacher guardians.

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

Visits are arranged to National Chemical Laboratory(NCL), Pune a globally recognized and respected R&D organization in the area of chemical sciences and engineering

- Visits are arranged to National Institute of Construction Management and Research (NICMAR), a non profit organization with the objective of engaging in activities for the promotion of education, training, research, professionalism and skill development at all levels of the construction and other

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allied industries

- Students have joined courses to enhance their skills in advanced technologies at Centre for Development of Advanced Computing (C-DAC).
- Industry sponsored projects are offered to final year students.
- Every year in-plant training is arranged for T.E students
- Industrial Visits are organized by the departments which provide exposure industrial culture.
- Students are encouraged to participate in Technical fests, ISTE Conventions organized by reputed institutes.

**j) Publication of student magazines**

- The institute publishes students' magazine entitled "HORIZON" annually.
- It provides a platform to the Student's for their creative articles and innovative ideas various Columns like Marathi section, Hindi section, English section, Integrity section General section, Technical section, Cartoon section, Design and Layout section and Reminiscence section.
- There is separate magazine committee comprising of student members and a faculty adviser.
- The committee collects and scrutinizes the articles from students.
- The special competition is organized for design of the cover page of magazine.
- Student's achievements in Sports, Curricular, Extra- Curricular, Co- Curricular activities are highlighted in the magazine. This promotes healthy competition among 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.**

Yes, the institute has Entrepreneurship Development Cell (EDC). The cell is comprises of institute level EDC coordinator and departmental members. IEDC is continuously working to catalyse and promote development of Students knowledge-based enterprises and promote employment opportunities in the innovative areas.

The objectives of the cell are

- To organize Entrepreneurship Awareness Camps, Entrepreneurship Development Programmes, Faculty Development Programmes and Skill Development Programmes.

- To create entrepreneurship among students.
- To inculcate a culture of innovation driven entrepreneurship through student projects.

The cell plans and executes various activities at department level.

#### Workshops Conducted Under EDC

Sr. No.	Activity	Resource organisation/ Person	Date/Month	Duration
1	Inauguration of Entrepreneurship Development Cell	In house	30 September 2013	1 Day
2	Expert lecture on "How to become an Entrepreneur"	Mr. B. S. Shimpukade (Chairman, Shimpukade Group) Mr. Amar Jadhav, (Chairman & MD Hancock Apex PRvt. Ltd, Pune)	30 September 2013	1 Day
3	Entrepreneurship Awareness Camp	MCED, Kolhapur	11 <sup>th</sup> to 13 <sup>th</sup> February 2013	3 day
4	Innovation, Fabrication and Entrepreneurship	Mr. Rajesh Nair, MIT TATA CENTER Boston, USA	3 <sup>rd</sup> to 16 <sup>th</sup> July 2014	2 week
5	One day workshop on entrepreneurship awareness	Mr. Rajesh Nair, MIT TATA CENTER Boston, USA	18 <sup>th</sup> September 2014	1 Day
6	Entrepreneurship Awareness Camp	MCED, Kolhapur	25 <sup>th</sup> to 27 <sup>th</sup> February 2015	3 day
7	Start-up session for EDC cell staff and student committee member	Dr. Pramod Bhalerao, Chairman, Eureka Doors, Pune	28 <sup>th</sup> July 2015	1 Day

Due to the impact of efforts taken by IEDC, the institutional entrepreneurs are making waves all across the world with small SME to MNC's. Their business firms are making acquisitions abroad and spreading their tentacles in various corners of the world. Our

entrepreneurs have proved their intellects in all areas of business Software development and services, IT infrastructures, manufacturing and sales, chemical to petrochemical industries, power and energy systems, manufacturing and exporting silicone products. Here is a brief profile of famous entrepreneurs

#### List of our entrepreneurs

Sr. No.	Department	Entrepreneur Name	Year Passing	Company Name	Company Add.	Nature of Service
1	CSE	Mr. Nidheesh Das	2011	Thavorath Systems Pvt. Ltd.	Building No. 13/297 Souparnika, P.O Koyyode, Kannur, Kerala, India	Managing Director
2	CSE	Mr. Vikrant Pagare	2011	Cubez Technocrats Pvt. Ltd.	Pune, Maharashtra, India	Founder & CEO at Cubez Technocrats Pvt. Ltd.
3	CSE	Mr. Supreet Mangsule	2013	Abuse Lifestyle - YourStory Pages	Mumbai	Founder & CEO
4	CSE	Mr. Rohan Swami	2013	I-mates Software services	149, Dumbre Building, Swimming Tank Road, Anand Nagar, Old Sangvi, Pune 411027, India.	Founder at I-mates
5	CSE	Mr. Jayant Sawant	2014	Software Development Co	Pune	Founder
6	CSE	Mr. Sachin Kukade	2014	Transportation Business	Pune	Founder
7	CSE	Ms. Kaushal Dali	2015	Construction Business	Ratnagiri	Co-Founder
8	Mechanical	Aniket Pachore	2000	Sidhi Garment & Chat Bazar	Kolhapur	Clothing & Restaurant
9	Mechanical	Dhairiyashil Pawar	2002	Orizon Constructions	Ichalkaranji	Civil Construction
10	Mechanical	Sanket Nalawade	2002	Soham Thermal Spray	Bhosari MIDC Pune.	Blasting, Metallizing, Powder Coating etc.
11	Mechanical	Pravin Bavane	2002	Bavne Jewelers	Kodoli	Gold Smith

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12	Mechanical	Vikeshkumar Patel	2003	Patel Diamods	Ahemdabad	Diamond Business
13	Mechanical	Ramesh Mulik	2003	Y Axis	Pune	Software
14	Mechanical	Aslam Mulla	2005	United Industries	C-35, Tasavade MIDC, Karad	Manuf. & Trading
15	Mechanical	Prakash Olekar	2005	OM Multthermal Engineers Pvt Ltd.	Gat No.1539, Talwade, Pune	Heat Treatment
16	Mechanical	Sandeep Patil	2005	Masterpiece Engg	Talwade, Pune	Fabrication
17	Mechanical	Sandeep Mohite	2005	Mohite Softwares	IT Park Kolhapur	Software
18	Mechanical	Vinayak Lambe	2007	Lambe Facility Mgt services	Ring Road, Chinchawad, Pune	Construction
19	Mechanical	Naganath More	2008	More Industries	Pune	Fabrication
20	Mechanical	Dastgir Hydrabade	2008	Hydrabade Electrical	Miraj	Contractor
21	Mechanical	Vaibhav Pawaskar	2008	Nirmal Professional Academy	Pune	Training Institute
22	Mechanical	Vinod Tandale	2009	Innovative Enterprises	Sanaswadi Pune- 412208	Electroplating
23	Mechanical	Sagar Patil	2009	Jyotirling Fabrication	Kotoli	Fabrication
24	Mechanical	Vivek Patil	2009	Ganpati Dairy & Agro Industries	Shantinagar-Biur, Tal- Shirala	Dairy Industries
25	Mechanical	Vishal Karale	2010	Karale Motors	Dhyanchand Hockey Stadium	4 wheeler Services
26	Mechanical	Siddhesh Dhuri	2010	Siddhivinayak Motor Accessories	Borawali, Mumbai	4 wheeler Accessories
27	Mechanical	Amar Patil	2010	Anandi Krushi Seva kendra	Majgaon, Tal-Panhala	Agriculture Servises
28	Mechanical	Pravin Deshmukh	2014	Om Aluminium	Kodoli	Window Frame
29	Mechanical	Akshay Kumbhar	2014	Kumbhar Fabrication	Kolhapur	Fabrication
30	Mechanical	Ajay Todkar	2014	Star-Ganga Rice Mill	Ambap	Rice Mill
31	Chemical	Mr. Ravi Koyande	1988	Manufacture of PVC Pipe, Casing, Caping etc.	MIDC Kudal	Manufacturing

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32	Chemical	Mr. Raju Gulavani	1988	Ira Inorganics,	MIDC Karad	Manufacturing
33	Chemical	Mr. Mukesh Patel	1990	Bhagwati LamiLates	Mehsana Gujrat	Manufacturing
34	Chemical	Mr. Gajanan Kitture	1991	Haripriya Chemical Industries	Hatkangale	Manufacturing
35	Chemical	Mr. Dinesh M Munot	1991	Sarvodaya Chemicals Industries Pvt. Ltd.	Anandnagar Poud Road, Kothrud	Manufacturing
36	Chemical	Mr.Jitendra Shah	1992	JS Industrial Solvents	Dalal Tower, Nariman Pt. Mumbai-32	Manufacturing
37	Chemical	Mr. Ashok Patil Mr. Shetal Danane	1993	Mash Oraganics Ltd	Hatkangale, Kolhapur	Manufacturing
38	Chemical	Mr.Milind Gadage	1993	Manufacture of Dichloro Acetic Acid	Satara	Manufacturing
39	Chemical	Mr. Rajkumar Jain	1994	Alpha Blue Chem Pvt. Ltd	Chiplun	Manufacturing
40	Chemical	Mr. Ritesh Singhal	1994	Singhal commodities lid	Ankaleshwar Gujrat	Manufacturing
41	Chemical	Mr. Vishvanath Samanat	1995	Electro-Chem, Consultants and services	PoNo23 Opposite White House Nerul Navi Mumbai	Consultancy
42	Chemical	Mr. Bapu Suryawanshi	1996	Elixier Piping Design Institute	Shivaji nagar, Pune	Education Institute
43	Chemical	Mr. Abhijit Upadhye	1997	Sandex Heat Exchanger India Pvt Ltd	E-I, GIDC Sarti, P.O. Manjusar Tal- Savli Dist- Vadodara	Manufacturing
44	Chemical	Mr. Gujan Barat	2000	Gujan Paints,	Ahamadnagar	Manufacturing

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45	Chemical	Mr. Mahesh Shelake	2001	Shelake Textiles	Ichalkaranji	Manufacturing
46	Chemical	Mr. Sachin Patil	2001	Shivohm Membrane Systems	Ichalkaranji (Kabnur)	Manufacturing
47	Chemical	Avdhut Chiplunkar	2001	Palladini Fine Chemicals	Sangali	Manufacturing
48	Chemical	Mr. Omkar Kambale	2001	Supream Silicons	MIDC Waluj, Aurangabad	Manufacturing
49	Chemical	Mr. Abhijeet Kurade	2001	Abhijeet Industries,	MIDC Shirol	Manufacturing
50	Chemical	Mr. Abhijit Goswami	2001	Supream Silicons	MIDC Waluj, Aurangabad	Manufacturing
51	Chemical	Mr. Nilesh Vyahare	2002	SAN Electrical	Kolhapur	Manufacturing
52	Chemical	Mrs. Aditi More	2002	Morex Petrochemicals	Ankaleshwar Gujarat	Manufacturing
53	Chemical	Mr. Manohar Patil	2003	Raveena Water tech	Bhairavanath Hsg Soc, Tata Power House, Borivali (East) Mumbai-66	Technical Services
54	Chemical	Mr. Manoj Kadam	2004	(1) S.V Engg & consultancy services (2) Perfect Techno services	Waluj, Aurangabad	Design and Consultancy
55	Chemical	Mr. Omkar Patil	2010	Inkilab Technologies Pvt Ltd	New Delhi	Research and consultancy
56	Chemical	Mr. Sandesh Bane	2013	S S Petrochem	Panvel Mumbai	Technical sales and services
57	Chemical	Mr. Sandesh Bane	2013	S S Petrochem	Panvel Mumbai	Technical Sales & services

**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

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**Institution Policies & Strategies for participation in sports:**

- The institution encourages the students to participate in extracurricular and co-curricular activities such as sports, games, quiz competition, seminars and conferences and cultural Director of activities.
- A Physical Director is appointed by the institute.
- The students are encouraged to participate in events organized at inter class, lead college, university zonal, inter-Zonal, State level activities.
- There are separate committees to create awareness & promote the participation of students in various sports events and tournaments.

**The following provisions are made:**

- Institutional talents are supported by paying their Registration fees & expenditure towards their travel, food and other conveniences.
- Participating students are treated as on Deputation on College Work.
- Separate internal tests/ examinations & improvement tests for participants.
- Academic guidance & extra practicals are arranged for the students participating in extra and co- curricular activities.
- In case of overlapping of the tournaments with university theory and practical examination a separate time table is prepared by the university for these students.
- Sports Kit and material is provided by Institute to students who participate in various sports events at different levels.
- Institute provides required sports material for University Players and Medal winners.
- To promote the sport activities trophies and medals are offered to the winners by organizing sports day.
- Best sports person award is given for excellent overall performance.
- General championship trophy is awarded to the department securing maximum number of prizes/awards.
- Shivaji University gives additional benefit for Student who participate in National, State, Zonal, Inter-zonal Tournaments in terms of extra marks.



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### **Institutional Policies and strategies for promoting student participating in co-curricular activities**

- The institute encourages the students to participate in co-curricular activities such as quiz competition, paper presentation and project presentation competitions, seminars and conferences at various level.
- The institute provides all the support required for participation in such activities. Laboratories are kept open beyond college hours for completion of project work, preparation of papers. Required library facility is made available for this work.
- In case of overlapping of the events with the internal examinations a separate timetable is prepared to conduct the examination.
- The trophies are awarded to the winners of these activities in annual social function.

#### **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, GATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defence, Civil Services, etc.**

- The institute has set a mechanism to inspire and support students to appear for different of competitive Exams.
- Institute has a networking with private trainers from Kolhapur city where trainers come down to college for delivering lectures for GRE/TOFEL exams.
- Counselling session and career guidance is provided to the students interested in MBA/CMAT exams.
- Alumni selected in Civil Services through UPSC/MPSC guides the students to crack competitive exams.
- The Institute gives coaching to students for MPSC/UPSC exams under “Shri Vinay Kore Competitive Examination Coaching Centre”.
- Department wise GATE Counselling and special coaching is arranged beyond college timings.
- Department wise GATE counselling and coaching classes are conducted for GATE aspirants.
- Moodle based online Mock Tests are conducted for GATE applicants.

- Library provides books and e-resources for GATE and other various competitive exam preparations.
- Students who are interested and willing to appear in various competitive examinations are motivated by the teachers.
- The students qualified in these exams are felicitated in the respective departments.
- In the recent and past many students have appeared and qualified in various competitive exams and the details are as follows.

Year	Exam	Appeared	Qualified
2014-15	GATE	384	14
	GRE/TOEFL	04	04
	Central/State Services MPSC/UPSC	10	04
2013-14	CAT/ MBA	05	05
	GATE	456	32
	GRE/TOEFL	03	03
	Central/State Services MPSC/UPSC	12	05
2012-13	CAT/ MBA	04	04
	GATE	285	08
	GRE/TOEFL	06	06
	Central/State Services MPSC/UPSC	05	01
2011-12	CAT/ MBA	04	04
	GATE	285	08
	Central/State Services MPSC/UPSC	04	01
	GATE	273	07
	GRE/TOEFL	01	01
	Central/State Services MPSC/UPSC	06	02

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### **5.1.8 What type of counselling services are made available to the students (Academic, personal, career, psycho-social etc.)**

Institution has Counselling Services and regularly students are counselled to address the issues related to their academic, personal, psychosocial and career awareness.

- **Academic counselling(Mentoring Scheme):**

The institute has guardian scheme in which near about 15-20 students are assigned to an individual faculty member who takes regular meetings of students and counsel them about their attendance and academic performance, in internal tests, university exams. Class coordinators and Head of the Departments also interact with students and counsel them about academic performance.

- **Personal and psycho-social counselling:**

The students having personal or family problems are identified and attended with due care by guardians and class coordinators. For this students are made comfortable by providing a friendly environment, so that they can share their personal problems. Students are prepared to face the problems and come out of it so as to concentrate on career. There is continuous dialogue with parents through parent teacher meeting and personal meetings, also through SMS and letters. The students at times come face to face with certain social issues or problems which tend to bring the inferiority complex in them. The guardians, class coordinators and Head of the Departments make sure that no such deterioration happens with the psychosocial understanding of students. There is separate mechanism of faculty visits to hostel during night time, at that time faculty talks to students and try to make them comfortable by counseling.

- **Career Counseling (CDC):**

The institute has separate Career Development Cell under which senior faculty, Head of Departments and CDC coordinator interacts with students and counsels them about career opportunities, career plan and so on. Expert lectures are arranged for career awareness. Training Programs are also arranged to develop required skill set.

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

Yes, the institute has a well planned and structured mechanism for career guidance of students under career development cell which is coordinated by central coordinator and supported by each departmental coordinator. There is a special mechanism in the institute which concentrates on the placement activity. The placement activity is considered as a core activity in the institute which is guided by Principal and the institute Training and Placement Officer works as institute level coordinator and supported by departmental Training and Placement Coordinators.

**Services Provided to Students:**

- The training and placement cell plays a key role in career counseling and guiding the students for their successful career placement.
- Training the students regarding industry needs and provide best of opportunities available in multinational companies.
- It organizes campus interviews for final year students and summer internship (training) for third year students in various companies/industries.
- Students are prepared to face campus interviews by arranging training in aptitude tests, group discussions, preparing for technical and HR interviews through professional trainers.
- Promotes career counseling by organizing guidance lectures by senior corporate personnel.
- Arranges various certification programs on advanced tools, technologies and programming languages.
- Organizes company based training and skill enhancement programs to students over and above college hours.

**Students Interview Preparation:**

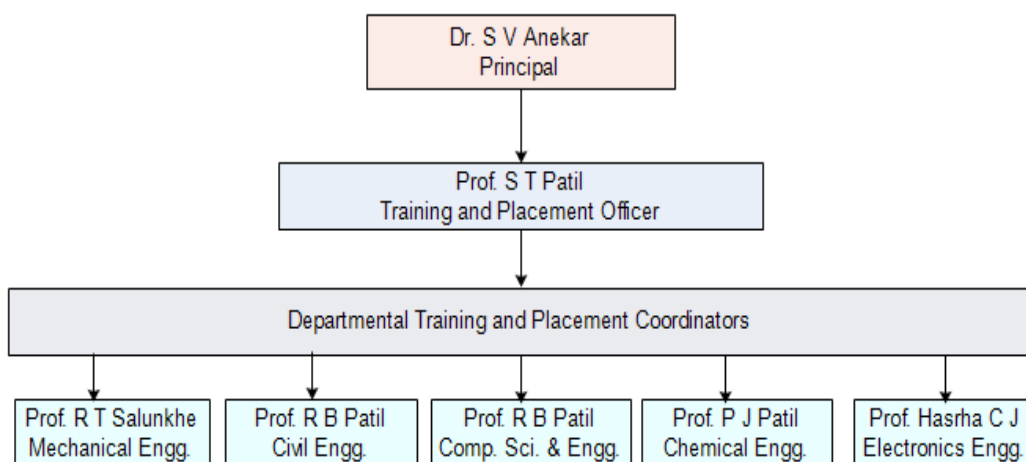
- Institute conducts continuous online tests through Moodle (Learning Management System) on general and technical aptitude.

- Analyzes every test performance of each student and average performance of students.
- Prepares students for email and passage writing by using GINGER software and open source tools.

### **Job opportunities**

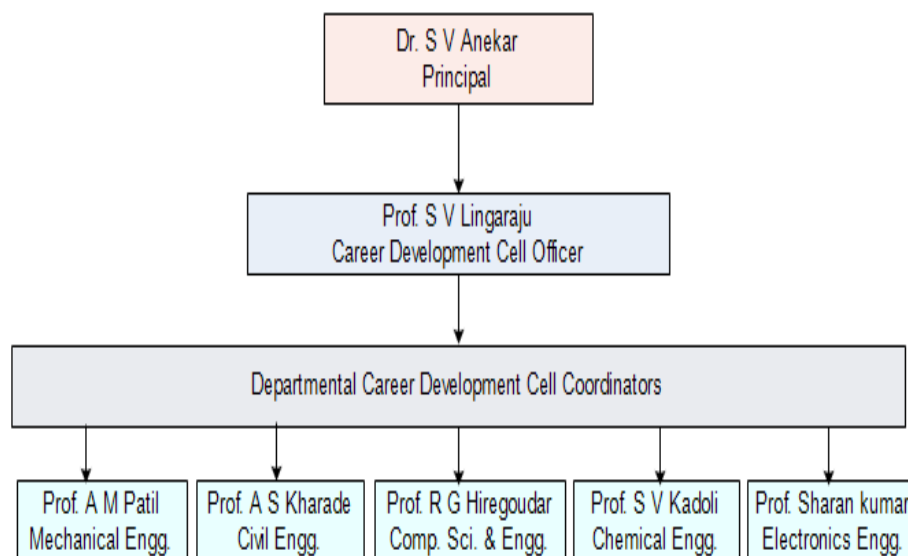
- Placement cell is continuously working on student's skill enhancement.
- It invites several companies into campus for conducting campus placement drives.
- Referral drives through alumni of institute.
- Institutional Alumni Association provides training to the students and provides placement assistance.
- Internships to work live projects to know the industry requirements and accordingly hone their skill set.

### **Training & Placement Cell**



Career Development Cell comprises of Principal, Central Coordinator and team of faculty coordinators from each department. It completely focuses on career counselling of each and every student. It organizes coaching classes on competitive exams like GATE for higher education and expert/guidance lectures on GRE/TOEFL/CAT/UPSC/MPSC and other exams. Workshops on career opportunities by faculties, alumni and career guide consultants.

### Career Development Cell



Placement Percentage				
Computer Science and Engineering				
Academic Year	2011-12	2012-13	2013-14	2014-15
Placements				
Campus Selection (%)	24.30	5.6	27.12	23.5
Off-Campus Selection (%)	38	48	29.4	13.08
Electronics Engineering				
Academic Year	2011-12	2012-13	2013-14	2014-15
Placements				
Campus Selection (%)	13.7	6	6.3	33.96
Off-Campus Selection (%)	17.24	20	18.98	18.86
Civil Engineering				
Academic Year	2011-12	2012-13	2013-14	2014-15
Placements				
Campus Selection (%)	46.8	22.8	2.73	11.18
Off-Campus Selection (%)	17.02	52.83	65.75	64.33
Chemical Engineering				
Academic Year	2011-12	2012-13	2013-14	2014-15
Placements				
Campus Selection (%)	16.67	10.14	23.80	24
Off-Campus Selection (%)	38.33	23.18	22.22	16.90
Mechanical Engineering				
Academic Year	2011-12	2012-13	2013-14	2014-15
Placements				
Campus Selection (%)	25.77	25.22	15.15	15.33
Off-Campus Selection (%)	6.18	11.11	20.60	17.17

### Employers List

Sr. No.	Company Name	Sr. No.	Company Name
1	TCS, Pune	32	Robert Bosch, Pune
2	Persistent Systems Ltd., Pune	33	Patni Computers, Pune
3	L & T InfoTech, Mumbai	34	Seed Infotech, Pune
4	ParaMatrix Technologies, Mumbai	35	Savvy Softwares, Pune
5	HCL, Pune	36	E-Zest, Pune
6	Amdocs, Pune	37	Infrasoft Technologies, Mumbai
7	KPIT Cummins Info Systems Ltd, Pune	38	TUDIP Technologies, Pune
8	KAY BOUVET, Satara	39	OS3 InfoTech, Mumbai
9	Black & Veatch, Mumbai	40	Acty System Pvt. Ltd., Pune
10	Galaxy Surfactants, Mumbai	41	IBM, Pune
11	Syntel, Pune	42	Infosys, Pune
12	Das Offshore Engineering Pvt Ltd, Mumbai	43	Cummins India Limited
13	Tecnimont ICB Pvt. Ltd., Mumbai	44	Hoonar Tekwurks Consulting LLP, Pune
14	John Deere, Pune	45	Privi Organics Private Limited, Mumbai
15	IGATE PATNI, Pune	46	Winspire Solutions Pvt. Ltd, Pune
16	Cognizant, Pune	47	Kirloskar Group, Pune
17	Accenture, Pune	48	Capgemini, Pune
18	Webtech Developers, Pune	49	Finolex, Pune
19	Einfochips, Pune	50	TEKDI Technologies, Pune
20	Tech Mahindra, Pune	51	Dimentrix, Pune
21	Triveni Turbines, Pune	52	Unisafe Fire Protection Specialists LLC, Mumbai
22	3DPLM Software Solutions Ltd, Pune	53	Prototech Solutions, Pune
23	Indian Army	54	Wipro, Pune
24	Webonise Software Sol, Pune	55	Pragmasys Consulting LLP, Pune
25	Mind Tree, Pune	56	CMS Infosystems
26	Gharda chemicals, Pune	57	Hariom Flexipack Industries, Kolhapur
27	OVSolution Pvt Ltd.	58	PeopleBook, Kolhapur
28	Softdel, Bangalore	59	Hexaware Technologies, Pune
29	Praxis Info Solutions Pvt Ltd, Pune	60	Emphasis, Pune
30	Tata Communications, Pune	61	Benchmark IT Solutions, Pune
31	Huawei technologies, Pune	62	VVF, Mumbai

Sr. No.	Company Name	Sr. No.	Company Name
63	JADE Global, Pune	73	Rajdeep Industrial Products Pvt Ltd., Mumbai
64	HP, Pune	74	Rajdeep Industries Limited, Pune
65	DIEBOLD, Goa	75	G S Telecom, Pune
66	MZOS Pvt. Ltd., Pune	76	Barclay Technology India
67	Mindsript, Pune	77	Cluster Software Solution, Bangalore
68	Zensar Technologies, Pune	78	Vodafone, Pune
69	Xento Systems, Pune	79	Blue Planet Infosolutions Pvt. Ltd, Pune
70	Nimba Services, Pune	80	Packt Publishing, Pune
71	Saint Gobbin India, Pune	81	Parallel Minds, Pune
72	Suchet Technologies, Pune	82	Prosols Technology, Pune
73	Infinitech Solutions, Pune	83	Perennial Systems, 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.**

Yes, Institution has constituted "Grievance Redressal Committee" for students with reference to AICTE Letter No. 1-101/DPG/ AICTE/ Ombudsman/2012 Dated 9th July 2012.

Committee addresses various issues/ complaints of the students during their four year course. A procedure for the defrayal of the grievances is as, to accept application/grievances' from the students. A suggestion & complaint box is placed at the admission and administrative offices. Institute has a set mechanism for providing feedback for overall improvement.

The committee recommends the Disciplinary actions against the grievances'.

**Grievances reported & redressed during last four years**

Sr. No.	Academic Year	Grievances Reported	Grievances Redressed
1	2011-12	Reading Room facility after college hours.	Extended reading room facility to students from 8am to 12pm
2		Poor Wi-Fi network at Hostels.	Fixed more Wi-Fi access points at Hostel
3		Increase Number of Books under Bank facility	Purchased New books as per students count in each department
4	2012-13	During Summer Water Cooler facility in each department	Repaired and Purchased new Water coolers
5		Ventilator Glasses in Class Rooms	New glasses were fixed in classes
6		Wi-Fi access point problem at Boys hostel	Purchased and fixed new Wi-Fi access point at hostel



7	2013-14	Curtains in Classrooms	Purchased New curtains for classrooms
8		Increase number of sports equipment	Purchased new sports equipment
9	2014-15	Unavailability of Wi-Fi network bandwidth.	Institution took dedicated 30MBPS leased line for college campus
10		Less Copies of Competitive exams books	Purchased books for competitive exams

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

The institute is providing safe and protective environment to the girl students and ladies faculty. The Anti-sexual Harassment committee formerly known as **Vishakha Committee** is re-established as internal complaints prevention committee according to the Indian Penal Code Act 2013. "Prevention, Prohibiting and Redressal Act".

The institute has constituted a committee of faculty, legal advisor, member from NGO and students. The institute takes great care and concern for empowerment of women. They are treated as equal partners living with dignity by creating an environment free from violence and discrimination.

#### Ladies Internal Complaint Prevention Committee (Vishakha Samiti)

Sr. No.	Name	Designation
1	Dr. S V Anekar	Principal
2	Dr. Mrs. V D Patil	Chairman
3	Dr. S S Joshi	Member
4	Mrs. A A Thorat	Member
5	Shri. R V Patil (Advocate)	Member
6	Dr. Mrs. U S Chougule	Member
7	Shri. J N Bhasar	Member
8	Miss. Shivani Kothavale	Girl student Representative
9	Miss. Amruta Tupe	Girl student Representative
10	Miss. Mrunali Jangam	Girl student Representative
11	Shri. Shubham Ukirde	Boys student Representative

Till now no case of harassment is 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?

Yes, the institution has constituted Anti-Ragging committee as per the guidelines from Higher and Technical Education department, Maharashtra state.

Ragging is totally prohibited in the institute. Anyone found guilty of ragging and/or abetting ragging, whether actively or passively, or being a part of a conspiracy to promote ragging, is liable to be punished in accordance with these Regulations as well as under the provisions of any penal law for the time being in force. Institute takes affidavit from students during admission as per the Govt. of Maharashtra.

#### **Anti-Ragging Committee**

The aims and objectives of the committee to provide a ragging free campus. The members of the committee maintains vigilance throughout the campus and hostels to prevent any ragging activities of the students. If any ragging case is observed, the committee examines and recommends appropriate punishment to the student involved in ragging. The anti ragging campaign is made through display of banners at all important places in and around the campus.

#### **Anti-ragging committee**

<b>Sr. No.</b>	<b>Name</b>	<b>Designation/Role</b>
1	Dr. S V Anekar	Chairman
2	Mr. D S Thombare	Co-ordinator
3	Shri. U B Jadhav	Member
4	Prof. R T Patil	Member
5	Prof. S S Patil	Member
6	Prof. L B Patkuree	Member
7	Prof. B R Bagane	Member
8	Prof. Dr.(Mrs). V D Patil	Member
9	Prof. Dr. D N Mane	Member
10	Prof. Dr. Marku Monis	Member
11	Prof. R T Salunkhe	Member
12	Prof. (Mrs). A A Thorat	Member
13	Prof. (Mrs). J N Mali	Member

Till date no instances of ragging is reported in the institute.

#### **5.1.13 Enumerate the welfare schemes made available to students by the Institution.**

The Institution is ensuring social justice to the students through the various students' welfare schemes.

#### **Welfare schemes available to the students:**

- Institutional, state and central government scholarships and free-ships to UG and PG students.
- A Group Medical Insurance Scheme, the premium paid by the institute covers all the students on campus.

- Reward of Rs.1500/-(Registration fees) for GATE Qualifiers.
- Special Care and support to differently-abled students.
- Cash prizes to meritorious students.
- Concession in tuition fees for students from economically weaker section.
- Prize money worth Rs. 2000/- and trophy to the Best Outgoing Student
- Wi-Fi enabled Campus with 50 Mbps leased line providing Internet facility 24x7.
- Library Book bank schemes

Sr. No.	Beneficiary	Provision
1	Open Category students	One set of book for group of 3 – 5 students- Only 15% cost is charged per set.
2	SC/ST	One set books for group of 2 students-Free of cost
3	Three Topper(Rankers)	One set for Top 3 rankers free of cost for each department

- Health Insurance and Primary Health Care Centre and a residential doctor available in the college campus.
- Zero balance account and free ATM card at Shri. Warana Sahakari Bank Ltd., Warananagar
- Study room facility for students from 8 AM to 12 PM
- College Bus facility and Ambulance facility 24x7.
- Travelling (TA) and dearness allowances (DA) to the students for participation in National and International level competitions/conferences.
- Well equipped Gymnasium.
- Multi-purpose play grounds for indoor and outdoor games.
- Swimming Pool in campus.

**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, The institution has Alumni Association which is in the process registration.

**Aims and objectives of the Association**

- To promote the welfare of the alumni and the institute by establishing a mutually beneficial relationship.
- To inculcate the sense of brotherhood, co-operation, mutual harmony, and affection amongst the Alumni members.

- 
- To foster linkages amongst the alumni and promote personal and friendly relations through meetings and get-togethers, tours / trips etc.
  - To render assistance to students of the Institute through grants, scholarships and prizes.
  - To provide assistance in academics, training and placement activities.
  - To undertake all such activities are incidental or conducive to the attainment of the above aims and objective.
  - To facilitate and encourage alumni to contribute towards improvement of infrastructure.

#### **Highlights of Alumni Association**

- The institute has produce 8918 alumni up till now.
- All the data of alumni is collected, maintained and stored digitally in neat and clean fashion.
- Digital data of 8500 UG alumni, 250 Diploma alumni of the institute is readily available.
- Contact information of alumni in the form of Reminiscences from 1987 till date is available
- Alumni's are connected with the institute and association on social communication networks like Facebook, WhatsApp and LinkedIn.

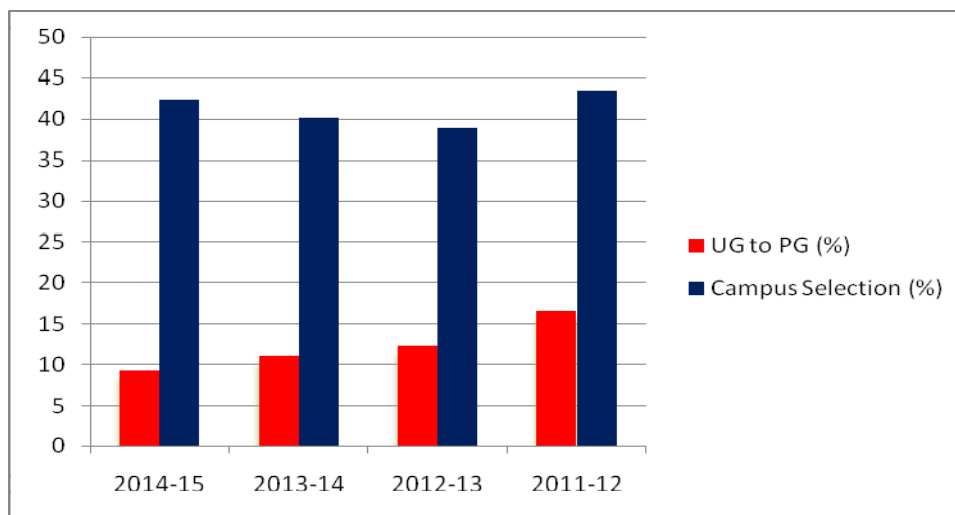
#### **Activities of Alumni Association**

- **Chapter Formation:** The chapters of association are formed at major cities like Kolhapur, Ratnagiri, Pune, Mumbai, Delhi, Madras, Hyderabad, and Banglore in India and abroad also.
- Organizing alumni meets centally and chapterwise.
- Providing training to the students.
- Assisting in placement activity of students.
- Providing help for needy alumni.
- Assisting admission activities at institute level.
- **Major contribution from Alumni for institutional development:** Alumni have helped the institute in following ways
  - i. Donation of book to library.
  - ii. Donation of software's to departments.
  - iii. Industrial Training to students
  - iv. Placement assistance at major companies.
  - v. Scholerships to talented needy students.

## 5.2 Student Progression

### 5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

The trend of the students opting for higher study and employment is quite steady in the last four years. The average students opting for the employment is 40-44% and higher education is 15-16%



Computer Science and Engineering				
Students Progression	2014-15	2013-14	2012-13	2011-12
Total No. of Students (%)	91.70	95.89	92.95	97.22
UG to PG (%)	4	14	5.6	4.86
Employed				
Campus Selection (%)	23.5	27.12	5.6	24.30
Off-Campus Selection (%)	13.08	29.4	48	38
Electronics Engineering				
Students Progression	2014-15	2013-14	2012-13	2011-12
Total No. of Students (%)	68.83	94.04	92.59	93.54
UG to PG (%)	3.77	7.5	12	10.3
PG to Ph.D. (%)	NIL	NIL	1.7	NIL
Employed				
Campus Selection	33.96	6.3	6	13.7
Off-Campus Selection	18.86	18.98	20	17.24
Civil Engineering				
Students Progression	2014-15	2013-14	2012-13	2011-12
Total No. of Students (%)	91.66	96.05	92.98	95.91
UG to PG (%)	27.27	21.91	18.86	29.78
PG to Ph.D. (%)	NIL	NIL	NIL	NIL

<b>Employed</b>				
Campus Selection (%)	11.18	2.73	22.8	46.8
Off-Campus Selection (%)	64.33	65.75	52.83	17.02
<b>Chemical Engineering</b>				
<b>Students Progression</b>	2014-15	2013-14	2012-13	2011-12
Total No. of Students (%)	88.75	87.50	92	96.77
UG to PG (%)	11.26	1.58	4.34	10
PG to Ph.D. (%)	1.40	NIL	NIL	NIL
<b>Employed</b>				
Campus Selection (%)	24	23.80	10.14	16.67
Off-Campus Selection (%)	16.90	22.22	23.18	38.33
<b>Mechanical Engineering</b>				
<b>Students Progression</b>	2014-15	2013-14	2012-13	2011-12
Total No. of Students (%)	91.06	93.22	90.90	90.65
UG to PG (%)	9.81	20	15.55	10.30
PG to Ph.D. (%)	NIL	NIL	NIL	NIL
<b>Employed</b>				
Campus Selection (%)	15.33	15.15	25.22	25.77
Off-Campus Selection (%)	25.76	38.18	22.22	10.30

**5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.**

The following table shows the comparison of the programme wise passing percentage of the students from the Institutes with the institutes of affiliating university within the district. Institutes considered for comparison are <sup>1</sup>D. Y. Patil college of Engineering and Technology, Kolhapur, <sup>2</sup>Kolhapur Institute of Technology's College of Engineering, Kolhapur and <sup>3</sup>Sanjeevan Engineering Technological Institute, Pnahala located in Kolhapur district affiliated to Shivaji University, Kolhapur.

<b>Programme wise Comparative Result Analysis</b>				
<b>Year 2014-15</b>				
<b>Course/Programme</b>	<b>Pass Percentage</b>			
	<b>TKIET</b>	<b>DYP</b>	<b>KIT</b>	<b>SETI</b>
Civil	91.66	97	87.82	44.74
Mechanical	91.16	98.68	93.05	95.92
Electronics	68.83	78.04	75	

Computer	90.67	86	93.33	95.65
Chemical	88.75	100	--	--
<b>Programme wise Comparative Result Analysis</b>				
<b>Year-2013-14</b>				
<b>Course/Programme</b>	<b>Pass Percentage</b>			
	<b>TKIET</b>	<b>DYP</b>	<b>KIT</b>	<b>SETI</b>
Civil	88.15	89	87.3	85.11
Mechanical	92.18	86	96.34	86.9
Electronics	88.09	84	98.5	--
Computer	95.89	92	96.88	98.44
Chemical	87.5	84	--	--
<b>Year-2012-13</b>				
<b>Course/Programme</b>	<b>Pass Percentage</b>			
	<b>TKIET</b>	<b>DYP</b>	<b>KIT</b>	<b>SETI</b>
Civil	85.96	90.27	82.43	87.17
Mechanical	90.29	95.77	100	96.97
Electronics	92.59	84.74	96.77	--
Computer	92.95	81.94	86.84	93.55
Chemical	92	94.66	--	--
<b>Year-2011-12</b>				
<b>Course/Programme</b>	<b>Pass Percentage</b>			
	<b>TKIET</b>	<b>DYP</b>	<b>KIT</b>	
Civil	82.85	88.46	96.61	--
Mechanical	90.65	85.55	98.8	--
Electronics	93.54	86.25	84.61	--
Computer	97.22	89.53	92.2	--
Chemical	95.23	79.36	--	--

**Note: “--” in the table indicates Not Applicable**

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

Training and Placement Cell and Career Development Cell is established in the institute. These cells conducts following activities, to facilitate student progression to higher level of education and towards employment. The activities of Training and Placement Cells are as below,

- Organizing various training programs on soft skill development, personality development, skill development.
- Arranging on campus and off-campus placement drives for the students

- 
- Conducting certification programmes for students to enhance technical skills such as programming, debugging, network troubleshooting etc.
  - Creating and maintaining the database of placed candidates with their offer letters.
  - Also, maintaining record of industries and attends industry initiated HR and TPO meets.

Career Development Cell in coordination with the departments arranges,

- Career awareness activities for the students.
- Coaching-training sessions for aspirant students on preparation for GATE, GRE, TOEFL etc.
- The students who are placed share their experience and preparations for interviews with students of junior classes.
- Arranges expert lectures of graduates who have been selected through MPSC/GATE/GRE and invited to interact with the students.

#### **5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?**

The institute and faculty take great care and concern about students. The support and guidance provided to failure and dropouts are as follows:

- Academically weaker students are identified based upon performance in internal assessments and university exams.
- Extra classes are engaged after college hours.
- Extra tests are conducted.
- Model paper solutions, extra assignments, question banks are provided through Moodle platform.
- Parents are informed about the performance of their ward and they are invited with the students to discuss the reasons and best possible solutions.
- Remedial classes are arranged for failure students in tough subjects.

### **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.**

Facilities for outdoor and indoor games are available to students. One qualified staff is dedicated to the gymkhana activities. Apart from this



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individual faculty also act as advisors for various sports activities. College has following sports facilities for the students

**List of sports, games, cultural and other extracurricular Activities**

**a) Sports and game**

**1. Indoor Games**

- Table Tennis
- Chess
- Badminton
- Gymnasium
- Carrom

**2. Outdoor Games**

- 400 meter Track (8 Lane)
- Kho-Kho
- Hand Ball
- Kabaddi
- Volleyball
- Football
- Basketball
- Cricket
- Gymnastic

**3. Inter Class Competition**

**4. Zonal and Inter Zonal**

**5. University level**

**6. Inter University level**

**7. Lead College activity of Shivaji University**

**b) NSS (University Level )**

- 1) NSS Camp
- 2) Blood Donation camp

**c) Cultural Activities**

- 1) College Level (Annual Social Function )
- 2) District Level Youth Festival
- 3) Central Level Youth Festival
- 4) Cultural activities and Youth Festival arranged by various organization

## ACTIVITIES CALENDAR

SPORTS CALENDAR FOR SEMESTER I, 2014-2015									
Week Days									
WEEK NO.	MONTH	MON	TUE	WED	THU	FRI	SAT	SUN	Events/Activities
1	JULY			1	2	3	4	5	Notice Display
2		7	8	9	10	11	12	13	Student Registration
3		14	15	16	17	18	19	20	
4		21	22	23	24	25	26	27	selection of student for Zonal and Inter -Zonal competition
5		28	29	30	31				Game practice
5	AUG					1	2	3	
6		4	5	6	7	8	9	10	
7		11	12	13	14	15	16	17	
8		18	19	20	21	22	23	24	Inter-class competition (sem-I)
9		25	26	27	28	29	30	31	
9	SEPT	1	2	3	4	5	6	7	Inter-class competition (sem-I)
10		8	9	10	11	12	13	14	
11		15	16	17	18	19	20	21	
12		22	23	24	25	26	27	28	
13		29	30						
14	OCT			1	2	3	4	5	
15		6	7	8	9	10	11	12	
16		13	14	15	16	17	18	19	
17		20	21	22	23	24	25	26	
18		27	28	29	30	31			
19	ANNUAL COMPETITION				PRE PRACTICE				ZONAL & INTERZONAL COMPETITION

SPORTS CALENDER FOR SEMESTER II, 2014-2015									
Week Days									
Week No.	Month	MON	TUE	WED	THU	FRI	SAT	SUN	Events/Activities
1	JAN				1	2	3	4	Inter-class competition (Sem-II)
2		5	6	7	8	9	10	11	
3		12	13	14	15	16	17	18	
4		19	20	21	22	23	24	25	
5		26	27	28	29	30	31		
5	FEB							1	
6		2	3	4	5	6	7	8	
7		9	10	11	12	13	14	15	
8		16	17	18	19	20	21	22	
9		23	24	25	26	27	28		Meeting for annual sports Day Function
9	MARCH							1	Certificate writing
10		2	3	4	5	6	7	8	Prize Purchasing
11		9	10	11	12	13	14	15	Annual Sports Day
12		16	17	18	19	20	21	22	
13		23	24	25	26	27	28	29	
14	APRIL	30	31						
14				1	2	3	4	5	
15		6	7	8	9	10	11	12	
16		13	14	15	16	17	18	19	
17		20	21	22	23	24	25	26	
18		27	28	29	30				
	University Exams				HOLIDAYS				

### N.S.S. Calendar for Academic Year 2014-15

- 1) Notice Display - 14/07/2014
- 2) Students Registration - 14/07/2014 to 24/07/2014
- 3) Formation of N.S.S. students council - 25/07/2014
- 4) Inauguration of N.S.S. Activity - 13/08/2014
- 5) Allotment of department wise students -

Sr. No.	Dept.	Students Allotment	Cast		Students Incharge	Staff In-charge
			SC	ST		
1	Mechanical	31	08	2	Mr. Nilesh Dabane	Prof. A.M. Patil
2	Computer	27	06	3		Miss Smita Patil
3	Civil	31	06	2		Miss Poonam Kotulkar
4	Electronics	18	04	2		Mr. Doijad V. S.
5	Chemical	27	05	3		Mr. Sachin Patil

Note –Total students -150 ( 100-Boys, 50-Girls)

#### • Social Service - Total working Days -20

Doing voluntary work through physical work - 12 days

Sr. No.	Date	Assemble	Time	Place	Faculty
1	05/08/2014	Gym.	08:30 am	Jakhale	Miss Poonam Kotulkar Mr. Doijad V.S
2	16/08/2014	Gym.	08:30 am	Jakhale	Mr. Sachin Patil Miss Smita patil
3	27/08/2014	Gym.	08:30 am	Jakhale	Pof. A.M. Patil Miss A. A. Topai
4	05/09/2014	Gym.	08:30 am	Jakhale	Mr. Doijad V. S. Miss Poonam Kotulkar
5	16/09/2014	Gym.	08:30 am	Jakhale	Mr. Sachin Patil Miss Smita patil
6	27/09/2014	Gym.	08:30 am	Jakhale	Mr, A.M. Patil Miss A. A. Topai
7	05/10/2014	Gym.	08:30 am	Jakhale	Mr. Doijad V. S. Miss Poonam Kotulkar
8	16/10/2014	Gym.	08:30 am	Jakhale	Mr. sachin patil Miss Smita patil
9	27/01/2015	Gym.	08:30 am	Jakhale	Mr.. A.M. Patil Miss A. A. Topai
10	05/02/2015	Gym.	08:30 am	Jakhale	Mr. Doijad V. S. Miss Poonam Kotulkar
11	16/02/2015	Gym.	08:30 am	Jakhale	Mr. sachin patil Miss Smita patil
12	27/02/2015	Gym.	08:30 am	Jakhale	Mr. A.M. Patil Miss A. A. Topai

### Others Activities - 08 Days

Sr. No.	Date	Assemble	Time	Work place
1	15/08 /2014	Smriti Mandir	07:30 am	Independence day
2	05/09/2014	-----	10-00 am	Blood Donation camp
3	24/09/2014	New seminar Hall	03-30 pm	Celebration of N. S. S. Day
4	02/10/2014	---	10-00 am	Tradition Day
5	04/10/2014	Gymkhana	09-00 am	Rally
6	26/01/2015	Smriti Mandir	07-00am	

- **N.S.S. Special Camp**

**Total strength of students – 67 (Boys-42, Girls-25)**

- **Allotment of department wise students**

Sr. No.	Department	Students Count
1	Mechanical	17
2	Civil	15
3	Computer	15
4	Chemical	10
5	Electronics	10

- **Staff Council Body / Committee**

Sr. No	Faculty	Designation
1	Dr. S. V. Anekar	Principal
2	Shri B. I. Kurane	N. S.S. Incharge
3	Miss A. A. Topai	N. S. S. Incharge.
4	Shri A. M. Patil	Member Mechanical Dept.
5	Shri V. S. Doijad	Member Electronics Dept.
6	Miss Poonam Kotulkar	Member Civil Dept.
7	Miss. Smita. S. Patil	Member CSE Dept.
8	Shri Sachin patil	Member Chemical Dept.
9	Shri B. I. Patil	Member Chemistry Dept.
10	Shri P. P. Patil	Member Civil Dept.
11	Shri A. A. Mujawar	Member Chemical Dept.

### Social Service - Total working Days -20

- **Doing voluntary work through physical work - 12 days**

Sr. No.	Date	Assemble	Time	Place	Faculty
1	05/08/2014	Gym.	08:30 am	Jakhale	Miss Poonam Kotulkar Mr. Doijad V. S.

---

2	16/08/2014	Gym.	08:30 am	Jakhale	Mr. Sachin Patil Miss Smita Patil
3	27/08/2014	Gym.	08:30 am	Jakhale	Pof. A.M. Patil Miss A. A. Topai
4	05/09/2014	Gym.	08:30 am	Jakhale	Mr. Doijad V. S. Miss Poonam Kotulkar
5	16/09/2014	Gym.	08:30 am	Jakhale	Mr. Sachin Patil Miss Smita Patil
6	27/09/2014	Gym.	08:30 am	Jakhale	Mr. A.M. Patil Miss. A. A. Topai
7	05/10/2014	Gym.	08:30 am	Jakhale	Mr. Doijad V. S. Miss Poonam Kotulkar
8	16/10/2014	Gym.	08:30 am	Jakhale	Mr. sachin patil Miss Smita patil
9	27/01/2015	Gym.	08:30 am	Jakhale	Mr.. A.M. Patil Miss A. A. Topai
10	05/02/2015	Gym.	08:30 am	Jakhale	Mr. Doijad V. S. Miss Poonam Kotulkar
11	16/02/2015	Gym.	08:30 am	Jakhale	Mr. Sachin Patil Miss Smita Patil
12	27/02/2015	Gym.	08:30 am	Jakhale	Mr. A.M. Patil Miss A. A. Topai

#### Lectures and Others - 08 Days

Sr. No.	Date	Assemble	Time	Work place
1	15/08 /2014	Smriti Mandir	07:30 am	Independence day
2	05/09/2014	-----	10-00 am	Blood Donation camp
3	24/09/2014	New seminar Hall	03-30 pm	Celebration of N. S. S. Day
4	02/10/2014	---	10-00 am	Tradition Day
5	04/10/2014	Gymkhana	09-00 am	Rally
6	26/01/2015	Smurimandir	07-00am	

#### Eureka and Jidnaysa

Sr. No.	Event	2014-2015	2013-2014	2012-2013	2011-2012
1	Eureka	11/09/2015	04/09/2014	18/09/2013	25/09/2012
2	Jidnaysa	03/04/2015	22/03/2014	05/04/2013	23/03/2012

### Cultural activities calendar

Sr. No.	Activity	Proposed Date
1	Selection of Cultural General Secretary	30/07/2014
2	Formation of cultural committee	16/08/2014
3	Preparation for the District level youth festival	20/08/2014 to 04/09/2014
4	Traditional day	02/09/2014
5	Central Youth Festival	10, 11/09/2014
6	Essay competition	10/01/2015
7	Dance competition	13/01/2015
8	Singing competition	18/01/2015
9	One act play competition	18/01/2014
10	Fashion show competition	20/01/2014
11	Annual social Function	23/01/2014

**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.**

▪ **Annual Sports Day:**

A Special function is arranged for prize distribution ceremony every year known as Annual Sports Day. In this function all the prizes won by students in Zonal, Inter Zonal and Interclass competitions are distributed by special guests invited for this Annual sports day.

#### Achievement from 2010 to 2015

##### Lead College Competition Winners

Sr. No.	Event	2011-12			2012-13			2013-14			2014-15		
		I	II	III	I	II	III	I	II	III	I	II	III
1	Athletics (M)							4	5	1	1		
2	Athletics (W)							1	5	2	1		
3	Cricket(M)					1					1		
4	Kho-Kho(M)				1				1			2	
5	Kho- Kho(W)				1			1					
6	Volley Ball(M)	1							1		1		
7	Badminton(M)					1						2	
8	Handball(M)								1		1		
9	Bodybuilding				1	1	1				1		
10	Basket Ball		1		1			1					
11	Hockey(M)					1			1				
12	Kabaddi (M)				1			1			1		
13	Kabaddi (W)				1				1				

### Zonal Competition Winners

Sr. No.	Event	2011-12			2012-13			2013-14			2014-15			2015-16		
		I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
1	Athletics (M)						1									
2	Volley Ball(M)															1
3	Swimming	2	2	1							6			1	5	1
4	Chess		1													

### Inter Zonal Competition Winners

Sr. No.	Event	2011-12			2012-13			2013-14			2014-15			2015-16		
		I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
1	Swimming										1	4			1	2
2	Mallakhamb							1								

### Open Competition Winners

Sr. No.	Event	2011-12			2012-13			2013-14			2014-15			2015-16		
		I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
1	Athletics (M)	2														
2	Volley Ball(M)		1								1					
3	Foot Ball(M)													1		
4	Swimming				1	1	1									
5	Kabaddi (M)							1			1			1		
7	Hockey (M)							1								

### Individual Participation in Inter University Competition

Sr.No.	Name	Sports	Academic Year
1	Komal Patil	Basketball	2011-12
2	Amit Chopade	Mallakhamb	2012-13
3	Amit Chopade	Mallakhamb	2013-14
4	Abhijit Patil	Hockey	2013-14
5	Abhishek Pathak	Swimming	2014-15
6	Jaydeep Patil	Basketball	2014-15
7	Sandeep Nangare	Basketball	2015-16
8	Abhishek Pathak	Swimming	2015-16
9	Harshwardhan Patil	Volleyball	2015-16



### Participation in Lead College Competition

Sr. No.	Academic Year				
	2011-12	2012-13	2013-14	2014-15	2015-16
1	Basketball		Chess	Volleyball (M)	
2	Cricket		Cricket	Volleyball (W)	
3	Chess		Badminton	Kabaddi	
4			Football	Athletics	
5			Volleyball	Kho-Kho (M)	
6				Kho-Kho (W)	
7				Badminton (M)	
8				Badminton (W)	
9				Hockey	
10				Bodybuilding	

### Participation in Zonal Competition

Sr. No.	Academic Year				
	2011-12	2012-13	2013-14	2014-15	2015-16
1	Chess	Chess	Cricket	Basketball (M)	Kabaddi
2	Cricket	Athletics	Kho-Kho	Chess	Chess
3	Athletics	Badminton	Chess	Cricket	Table Tennis (M)
4	Table Tennis	Cricket	Swimming	Football	Table Tennis (W)
5	-	Football	Football	Handball	Badminton
6	-	-	Kabaddi	Swimming	Swimming (M)
7	-	-	Athletics	Athletics	Swimming (W)
8	-	-	-	Wrestling	Cricket
9	-	-	-	Volleyball	Athletics
10	-	-	-	-	Basketball (M)

### Participation in Inter Zonal Competition

Academic Year				
2011-12	2012-13	2013-14	2014-15	2015-16
Hockey (M)	Mallakhamb	Basketball	Gymnastics	Basketball
-	Boxing	Yoga	-	Gymnastics
-	Shooting	Mallakhamb	-	Taekwondo

### Inter Zonal Event Organized from 2010 to 2015

Sr.No.	Event	Date	Academic Year
1	Athletics	1-11-2010 To 3-11-2010	2010-11
2	Swimming	29-08-2011 To 30-08-2012	2011-12
3	Swimming	23-09-2012 To 24-09-12	2012-13

4	Swimming	14-09-2013 To 15-09-2013	2013-14
5	Wrestling	11-11-2013 To 12-11-2013	
6	Swimming	17-09-2014 To 18-09-2014	2014-15
7	Cricket	29-09-2014 To 11-10-2014	

#### Zonal Event Organized from 2010 to 2015

Sr.No.	Event	Date	Academic Year
1	Cricket	02-10-2010 To 12-10-2010	2010-11
2	Wrestling	30-10-2012 To 31-10-2012	2012-13

#### Lead College Event Organized from 2010 to 2015

Sr.No.	Event	Date	Academic Year
1	Cricket	06-03-2011 To 11-03-2011	2010-11
2	Football	02-04-2011 To 04-04-2011	
3	Cricket	03-02-2012 To 08-02-2012	2011-12
4	Kabaddi	04-02-2012	
5	Bodybuilding	10-02-2012	
6	Volleyball	14-02-2012	
7	Kho-Kho (M/W)	04-02-2013	2012-13
8	Basketball	14-02-2013	
9	Bodybuilding	26-02-2013	
10	Handball	21-02-2014	2013-14
11	Bodybuilding	20-03-2014	
12	Cricket	02-02-2015 To 05-02-2015	2014-15
13	Football	09-02-2015	
14	Bodybuilding	10-02-2015	
15	Handball	15-02-2015	

#### Co-Curricular Achievements 2011-2012

Sr.No.	Name of Student	Achievement
1	Rupesh Dabholkar	1 <sup>st</sup> Prize in Eureka, National level paper presentation, TKIET warananagar
2	Aniket Sawant	3 <sup>rd</sup> Prize in Eureka, National level paper presentation, TKIET warananagar
3	Sachin Nalawade	1 <sup>st</sup> Prize in Eureka, National level paper presentation, TKIET warananagar
4	Visahal Jadhav	1 <sup>st</sup> prize in paper presentation, KIT Kolhapur
5	Sagar Kedar	1 <sup>st</sup> prize in paper presentation, KIT Kolhapur
6	Jitendra Narale	2 <sup>nd</sup> Prize in Jidnyasa, National level project presentation, TKIET warananagar
7	Gajanan Patange	2 <sup>nd</sup> Prize in Jidnyasa, National level project presentation, TKIET warananagar
8	Vaibhav Salunkhe	2 <sup>nd</sup> Prize in Jidnyasa, National level project presentation, TKIET warananagar

### Co-Curricular Achievements 2012-2013

Sr. No	Name of Student	Achievemant
1	Bhagyesh Pawar	1 <sup>st</sup> Prize in Built Smart, PVPIT, Budhgaon
2	Ashwini Nale	1 <sup>st</sup> Prize in Built Smart, PVPIT, Budhgaon
3	Shivraj Shahapurkar	1 <sup>st</sup> Prize in Paper Presentation PVPIT, Budhgaon
4	Shrinivas Shinde	1 <sup>st</sup> Prize in Paper Presentation PVPIT, Budhgaon
5	Vijay Mane	1 <sup>st</sup> Prize in GD & Debate, TKIET Warananagar
6	Juned Maner	1 <sup>st</sup> Prize in GD & Debate, TKIET Warananagar
7	Pravin Kulkarni	1 <sup>st</sup> Prize in Jidnyasa, National Level Project presentation, TKIET Warananagar
8	Rohit Kulkarni	1 <sup>st</sup> Prize in Jidnyasa, National level project presentation, TKIET warananagar
9	Priyanka Mohite	1 <sup>st</sup> Prize in Jidnyasa, National level project presentation, TKIET warananagar
10	Glrija Kumbhar	1 <sup>st</sup> Prize in Jidnyasa, National level project presentation, TKIET warananagar
11	Priyanka Jadhav	1 <sup>st</sup> Prize in Jidnyasa, National level project presentation, TKIET warananagar
12	Snehal Bhol	1 <sup>st</sup> Prize in Jidnyasa, National level project presentation, TKIET warananagar
13	Rajan Pinglikar	1 <sup>st</sup> Prize 1 – Opera PVPIT, Budhgaon
14	Nilam Kumbhar	1 <sup>st</sup> Prize in Impulse paper presentation, DYP Kolhapur
15	Dhanashree Samant	1 <sup>st</sup> Prize in Impulse paper presentation, DYP Kolhapur
16	Kirti Kanade	1 <sup>st</sup> Prize in Impulse paper presentation, DYP Kolhapur
17	Lince Njarakatt	1 <sup>st</sup> Prize in NIRMITI project presentation, PVPIT Budhgaon
18	Sayali Barpate	1st prize in NIRMITI project presentation, PVPIT Budhgaon
19	Ranjit Patil	2 <sup>nd</sup> Prize in Akar Poster Presentation, KIT, Kolhapur
20	Dhairiyashil Mohite	2 <sup>nd</sup> Prize in Akar Poster Presentation, KIT, Kolhapur
21	Vivek Lokhande	3 <sup>rd</sup> Prize, Green Week, TKIET Warananagar
22	Shubham More	3 <sup>rd</sup> Prize, Green Week, TKIET Warananagar
23	Namdev Patil	Paper Published in International Journal (IJSER)
24	Vikas Tagare	Paper Published in International Journal (IJSER)
25	Harish Bargaje	1 <sup>st</sup> Prize in, Akar 2K12, WCE, Sangli
26	Harshal Dewang	1 <sup>st</sup> Prize in, Akar 2K12, WCE, Sangli

### Co-Curricular Achievements 2013-2014

Sr. No	Name of Student	Achievemant
1	Pratik Jagtap	1 <sup>st</sup> Prize in Project Master at RIT Sakharale
2	Harshal Dewang	1 <sup>st</sup> Prize in Project Master at RIT Sakharale
3	Vabhav Khetal	1 <sup>st</sup> Prize in Idea Presentation, RIT Sakharale
4	Mahesh Patil	1 <sup>st</sup> Prize in Parikrama 2K14, SEIT Panhala
5	Mohan Patil	2 <sup>nd</sup> Prize Chanshakti 2K14, SETI Panhala
6	Amit Patil	2nd prize Ghaanshakti 2K14 SETI Panhala
7	Ganesh Patel	1 <sup>st</sup> Prize Kaushalya SBGI, Miraj
8	Soham Lolage	1 <sup>st</sup> Prize in YICC, ICT Mumbai
9	Gajanan Patange	1 <sup>st</sup> Prize in YICC, ICT Mumbai
10	Amit Solase	1 <sup>st</sup> Prize in YICC, ICT Mumbai
11	Omkar Shinde	2 <sup>nd</sup> Prize in Quantum paper presentation RIT Sakharale
12	Dipesh Shinde	2 <sup>nd</sup> Prize in Quantum paper presentation RIT Sakharale
13	Ramesh Masal	2 <sup>nd</sup> Prize in Quantum paper presentation RIT Sakharale
14	Rohit Tandulwadkar	2 <sup>nd</sup> Prize in Vortex ICT Mumbai
15	Shakir Shaikh	2 <sup>nd</sup> Prize in Vortex ICT Mumbai
16	Tushar Thite	2 <sup>nd</sup> Prize in Vortex ICT Mumbai

### Co-Curricular Achievements 2014-2015

Sr. No	Name of Student	Achievemant
1	Sumit Lade	1 <sup>st</sup> Prize in Paper Presentation FAMT, Ratnagiri
2	Swapanj Mohite	1 <sup>st</sup> Prize in Paper Presentation FAMT, Ratnagiri
3	Aniruddha Mahamuni	1 <sup>st</sup> Prize in Paper Presentation FAMT, Ratnagiri
4	Pankaaj Mali	1 <sup>st</sup> Prize in Paper Presentation FAMT, Ratnagiri

5	Karishma Mestri	1 <sup>st</sup> National Event PPT, KBP Satara
6	Tejas Olekar	1 <sup>st</sup> National Event PVPIT, Budhgoan
7	Rahul Kharade	1 <sup>st</sup> Technical Event PPT KBP, Satara
8	Parikshit Kulkarni	2 <sup>nd</sup> Prize in State Level Technical Event, AMGOI, Wathar
9	Madhavi Bhosale	1 <sup>st</sup> National Level Tech Built budhgav
10	Amol Kokane	1 <sup>st</sup> Prize in code Mania Aagaar DKTE
11	Rajeshree Rajigire	1 <sup>st</sup> Prize in code Mania Aagaar DKTE
12	Suraj Karande	1 <sup>st</sup> Prize in Paper presentation TKIET warananagar
13	Shraddha Latthe	1 <sup>st</sup> Prize PPT GP Kolhapur
14	Shrilekaha Kamble	1 <sup>st</sup> Prize PPT GP Kolhapur
15	Yash Lohana	1 <sup>st</sup> Prize in Paper presentation RIT Sakharale
16	Sneha Kotawade	2 <sup>nd</sup> Master Presenter SIT Yadrav
17	Akshay Virlekar	2 <sup>nd</sup> Master Presenter SIT Yadrav

#### National Level Symposium

Sr.No.	Event	2014-15	2013-14	2012-13	2011-12
1	Eureka (Paper Presentation )	Participants 756	Participants 551	Participants 603	Participants 618
2	Jidnyasa (Project &Industrial Problem solver)	Participants 756	Participants 823	Participants 752	Participants 719

#### Co-Curricular Achievements and cultural activities

Event(Level)	2014-15	2013-14	2012-13	2011-12
Anuual social function	Singing, one act play, fashion show and group/solo dance	Singing, one act play, fashion show and group/solo dance	Singing, one act play, fashion show and group/solo dance	Singing, one act play, fashion show and group/solo dance
Traditional day	Mr/Ms Parampara, fashion show and traditional group dance	Mr/Ms Parampara, fashion show and traditional group dance	Mr/Ms Parampara, fashion show and traditional group dance	Mr/Ms Parampara, fashion show and traditional group dance

Shivaji university youth festival (district level)	Participated in eight events	Achieved 3rd rank in folk dance	Participated in 12 events	-----
Shivaji university youth festival (central level)	Participated in 6 events	Participated in 12 events	Participated in 6 events	-----
Satej YF(SYF)	Participated in four events and achieved 1st rank in rock band, 2nd in group dance	Participated in 15 events and achieved 1st rank in rock band, 2nd in group dance	-----	-----
Vasant karandak PVPIT Budhgaon	Participated in 3 events Group dance runner up Rock band winner	-----	-----	-----
Krishna Utsav Karad	Participated in 3 events Group dance 2nd Rock band winner	-----	-----	-----
Inspira, Islampur	Achieved 1st rank in group dance	-----	-----	
Bhartiyam Kala Mahotsav	-----	-----	-----	22 participants Achieved Best writer & Best Nepaththya

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**5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?**

- **Institute collects feedback from the employers in the prescribed form during campus interviews.**

The feedback aspect covers attributes like Soft skills, communication skills, technical skills, strengths and weaknesses of the students. Feedback includes Suggestions to improve quality & student's employability skills.

- **Formal meetings of alumni during alumni meets conducted departmentally.**

Alumni annual meet covers interactive discussion with alumni and faculty, students on recent trends and technologies, technical advancements.

- **Expert / guidance lectures by the employers and alumni.**

Institute is having good practice to arrange expert and guidance lectures by the employers and alumni's at the time of students association inaugural function on employability skills.

- **Students' performance in interview, curriculum improvement etc.**

The feedback helps in designing the training modules prepared by T & P cell for the students. Employers and alumni give valid suggestions on curriculum development as well as infrastructure facilities.

**5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.**

Institute constituted a committee of faculty and student's members to design and publish annual magazine entitled "**HORIZON**".

"**HORIZON**" a platform publishes Student's creative articles and innovative ideas various Columns like Marathi section, Hindi section, English section, Integrity section General section, Technical section, Cartoon section, Design and Layout section and Reminiscence section.

**"HORIZON" Covers:**

- Publishing information relating to Vision, Mission and Quality Policy, the various courses offered, the industries with which MoU is signed, members of Governing Council, members of teaching and non-teaching staff of various departments,

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curriculum content of various undergraduate and post graduate courses, general rules and regulations for UG and PG courses.

- Includes Technical activities, Research papers published by the faculty members, workshops & conferences attended, Ph. D registered /thesis submitted / degree awarded/ PG completed, Extraordinary students' achievements and awards, Departmental significant news, events, activities, guest lectures, seminars, symposiums, competitions.
- Activities of Training & Placement Cell, Career Guidance and Entrepreneur Development Cells. Events by various Committees like Cultural Committee, sports committee. Student's participation and achievements in curriculum, extra and co-curricular activities. These committees include staff and student representatives and carry out the activities under the supervision of the Principal.
- Student's innovations, wealth of ideas, articles, poems, stories, features, vignettes, cartoons to graffiti, one-liners to limericks and interviews of eminent personalities by students.
- In various topics and themes, the freshness of learning new concepts will radiate through the write ups and works that are presented in this magazine. This magazine is crafted in such a way that it can provide a brief about the academic and general campus life.
- It also showcases crowns of the institute and emphasizes on the diversity that the students bring to the institute.
- This magazine is best platform for all the students, alumni, academicians and faculty to share their thoughts on various topics and discuss on issues related to technology, leadership and any other aspect that becomes a source of value add.
- List and photos of Scholar students, Photos of Annual Social Function, Outgoing Batches, Certificates of Appreciation
- Institutional complete Annual Report of the Academic Year.

The institute publishes bi-annual News letter Reflex-TKIET, It covers the information of the Technical events organized in different departments under various administrative bodies like Students council, ISTE and departmental associations. Workshops conducted and Guest lecturers arranged by expertise for students in different departments. In addition to that major achievement of faculty, students, their publications are also compiled



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**Student's Publications:****Academic Year 2014-15**

Sr.No	Student Name	Publication Title	Article Type	Prize
1	Sushant Kunekar	Nrutyachandrika Sanyogita Patil	Ekankika	First
2	Pramod Jadhav	B-Latcam Vaccin	Critical writing	First
3	Dhanraj Patil	-	Vyangchitra	Second

**Student's Publications****Academic Year 2013-14**

Sr. No.	Student Name	Publication Title	Article Type	Prize
1	Vivek Gayakwad	Tatyasaheb Kore	Vyaktichitra	Third
2	Amruta Ghope	President A.P.J. Abdul Kalam	Vyaktichitra	Third
3	Rohit Tandulwadkar	It's all having faith	Personal essay	First

**Student's Publications****Academic Year 2012-13**

Sr. No.	Student Name	Publication Title	Article Type	Prize
1	Snehal R Shinde	Swine Flue	Ekankika	First
2	Nilam Kumbhar	Whisper of the heart	Story	Third
3	Ashwini Desphande	All things bright and Beautiful	Poetry	First
4	Soham Lolage Prasad Kumbhar	Interview with Mr. Kartik Ramaswamy	Interview	Third
5	Shweta Shaha	A trip to europe	Travelogues	First
6	Vishal Jadhav Sagar Kedar Rohit Mane	GVI based security for Android system	Research Articles	Second

**Student's Publications**  
**Academic Year 2011-12**

Sr. No.	Student Name	Publication Title	Article Type	Prize
1	Vishwa Bhushan	Sachi Swatntra	Kavita	Second
2	Priyanka Patil	Boudha Gounphae	Suchana Lekh	First
3	Rupali Shinde	Digital Yug	Suchana Lekh	Second
4	Harish Laddha	Chetan Bhagat- He Makes India read	Biography	Third
5.	Abhijeet Khade	7 scientific ways to Catch a Lion	Humorous Writing	Second
6	Ragini S. Kuber	Diary of a hostel girl	Contemplative Writing	First

**Student's Publications**  
**Academic Year 2010-11**

Sr. No.	Student Name	Publication Title	Article Type	Prize
1	Rohit Kalage	Phulanche Zale Ashru	Lalitlekh	First
2	Priyanka Lande	Anmol Thewa Japlela	Vyaktichitra	Second
3.	Swapnil Borage	Maza Gate Cha Pravas	Prawasvarnan	First
4.	Uday Sankpal	Gav Ek Drushtishkep	Samiksha	Second
5.	Jyoti Mali	Amane Samne	Mulakhat	Third
6.	Nasir Maner	Nabad Birbal	Vinodi lekh	First
7.	Jayesh Yedurkar	Ek Anokha Safar	Prawas varnan	Second
8.	Keshav Maske	Stant, Jindgi Our Maut	Suchana lekh	Second
9.	Harsh Marikoo	A parable from the Bible : A story about farmer	Story	First
10.	Smita Kamble	Balance sheet of your life	Poetry	Second
11	Jaimon Abraham	A visit to the land of obama	Travelogues	First
12	Akshay Ingale	Third Aayamic expo	Research Articles	First
	Vikarant Pagare			
13	Supriya Gawandi	Artist's Diary	Vyangchitra	First
14	Chinmay Sawant	Just Click	Photography	Third
15	Vishal Chavhan	Brush Strok	Rangchitra	Second

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**5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.**

Yes, the institute has Students' Council. It's structure is as per the provisions of under the Section 40(2)b, in the Maharashtra University Act, 1994. The Principal as Council Chairman and Vice-Principal as member nominate student council faculty coordinator and remaining members of the council. One student among nine student members will be selected as University representative unanimously by principal and members of council. Students' Council consists of fourteen members as listed below,

**Student Council members**

Sr. No.	Name	Role
1	Principal	Chairman
2	Vice-Principal	Member
3	Student Council Faculty Advisor	Member
4	Director, Physical Education	Member
5	Faculty Coordinator, NSS	Member
6	Students Representative F.E Topper	Member
7	Students Representative S.E Topper	Member
8	Students Representative T.E Topper	Member
9	Students Representative B.E Topper	Member
10	Students Representative from sports	Member
11	Students Representative from NSS	Member
12	Students Representative from Cultural	Member
13	Students Representative from Girls	Member
14	Students Representative from Girls	Member

**Activities**

The Students' Council contributes in organizing Sports, Cultural, Social and NSS activities. It provide forum to the students for the development of leadership qualitties. It gives valid recommendations regarding effective teaching-learning process.

**Funding**

Separate funds are made available by the institute for the activities of the Students' Council.

**5.3.6 Give details of various academic and administrative bodies that have student representatives on them.**

- Student Council.
- IQAS Committee
- ISTE Student Chapter.

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- Anti-ragging Committee.
  - Hostel committee.
  - Nature Club.
  - Marathi Sahitya Mandal.
  - Library Committee.
  - NSS (National Service Scheme).
  - Cultural Committee.
  - Ladies Compliant Prevention Committee.
  - Technical student associations like EUREKA, JIDNYASA.
  - Departmental Students Associations

Department	Administrative Body
Civil	CESA
CSE	ACES
Chemical	CHESA
Electronics	EESA
Mechanical	MESA

### **5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.**

#### **Alumni Network:**

- Institute has alumni association and it organizes Alumni Meet every year since its establishment.
- The members of college administration and the senior faculty of all the departments
- Participate in the annual alumni meet on invitation and support for the development of the institution.
- Alumni association seeks the opinion / suggestions of alumni on Institutional development.
- Alumni interactions happen over social network and online communication over college website.

#### **Former Employee Network:**

- Institute has a strong and vibrant Former Employee Network. Former/Retired employees are completely satisfied and give their support in developmental activities of institute.
- Former employees are invited for functions, Guest lectures and also to extend their expertise in Research and Development.
- Inviting former faculty members as a judge for various competitions like National level events, Eureka & Jidnyasa, Seminars, ICT based workshops and also as external examiners.

**Criterion VI**  
**Governance, Leadership and**  
**Management**

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<b>CRITERION VI : GOVERNANCE, LEADERSHIP AND MANAGEMENT</b>
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**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 become an academy of excellence in technical education and human resource development

**Mission:**

- To excel in academics and research through innovative techniques
- To facilitate employability, entrepreneurship along with social responsibility
- To collaborate with industries and institutes of national recognition.
- To develop engineering graduates of high repute with professional ethics
- To inculcate lifelong learning and respect for environment

Our unwavering commitment to quality education and experiential learning ensures that our students develop the abilities for critical thinking and evaluation of issues; and they are trained to translate concepts and theoretical knowledge into real time situations.

The Institute boosts the self-confidence of students and moulds them into great entrepreneurs and eligible employees with social responsibility.

Strong liaison is maintained with various industries and institutes of National repute through the industry institute interaction cell.

Institute stimulates and inspires students so that they develop an all-round personality and treat learning as a growth process and look industry in a wider perspective.

**6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?**

The quality policy of the Institute is designed by the Top Management. For implementing the quality policy, an action plan is prepared collectively by the Principal and the Heads of Departments. According

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to the action plan, specific roles are assigned to various faculty members.

**Top Management:**

- The institute has governing body which focuses on comprehensive development and on continuous improvement for steady growth of the institute. It monitors the formulation, implementation and evaluation, reforming with special reference to quality and standards of academic and industrial expectations.
- The management plays the role of facilitator with adequate financial support for the academic and administrative infrastructure creation and sustenance which works as basic backbone for the establishment of state-of-the-art facilities for very energizing teaching-learning delivery mechanism.
- The top management executes its responsibilities by entrusting the Principal and academic heads the shared responsibility in implementing policies, nurturing stakeholder relationship, faculty recruitment to suit designated posts, improving infrastructural facilities, welfare schemes, new courses etc. to satisfy the design and implementation of its quality policy.

**The Principal**

The Principal is the bridge between the Management, the faculty and the students. The Principal ensures the implementation and execution of the quality policy and plans of the institute through

- Well planned academic activities which lead to the attainment of stated quality policy.
- Co-ordination with HoDs and the faculty members in improving the image building of the Institute.
- Enhancement of the reputation of the institution, through various social welfare activities, placement activities.
- Creation of right ambience for intellectual pursuits of students and faculty
- Communication with regulatory bodies
- Facilitation of research activities
- Formation of special bond with stakeholders
- Encouragement of team spirit to achieve academic goals.

The Principal ensures that all provisions of the AICTE, DTE and the University by-laws, statutes and regulations are observed.

The Principal provides academic leadership to evolve strategies for academic growth.

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### **The Faculty**

The faculty plays a pivotal role in the implementation of the quality policy. All faculty share their experience and expertise for implementing the quality policy by,

- Developing role model for the students and to upgrade themselves continuously.
- Fulfilling responsibilities in teaching, research and administrative activities.
- Developing quality measures for the evaluation of various processes.
- Counselling the students about quality in various activities.
- Taking initiatives to associate themselves with the eminent research organizations, academicians, professional bodies and the 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.**

Action plans for the fulfillment of the stated mission are prepared by the management through the Governing Body and Principal. 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 stakeholders.

The following initiatives have been taken to ensure the fulfillment of the vision and mission of the institute

- **Infrastructure:** Adequate infrastructural facilities are provided by the management for execution of efficient and quality teaching learning process.
- **Teaching Learning Process:** The institute emphasizes on efficient teaching learning process which results in academic excellence and inculcate the culture of innovation and research among students and faculty. The leadership invites eminent academicians, scientists,



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industrialists and others to enlighten the staff and students on current issues.

- **Industry Institute Interaction:-** The Industry Institute Interaction is being considered as an important tool in the teaching learning process. MoU's have been signed with different industries for giving training on recent technologies.

The following is the list of activities of the leadership showing its involvement in reinforcing the culture of excellence.

- The institute always follows best practices observed in various other institutions and industries, and takes those as benchmarks for excellence.
- The students are motivated and encouraged to be self driven towards achieving excellence.
- The institute promotes the spirit of involvement, empowerment, entrepreneurship, and accountability at all levels with precision, perfection and efficiency.
- The leadership appreciates the faculty / staff for academic achievements by arranging special programs or at the time of public programs.

The following is the list of activities of the leadership showing its involvement in championing the organization change.

- The institute follows standard operating procedures and a well organized work environment for implementing the required changes recommended by stakeholders.
- The best possible strategies are adopted which are based on the above recommendations.

The following is the list of activities of the leadership showing its involvement in Interaction with stakeholders

- The Management and the Principal interacts with various stakeholders such as staff, parents, alumni etc. for proper support in terms of policy and planning of different activities.
- The opinions of eminent people visiting the college, suggestions of experts from industry, exit feedback from the students and suggestions from alumni are considered for steady growth of the institute.

#### **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 Top Management's meetings are conducted periodically. In these meetings, policies and plans are decided and reviewed.

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- To monitor all academic and student related activities; Principal conducts meetings with Heads of department and faculty. The faculty meetings are conducted in every department frequently to convey plans and instructions discussed in HoD meeting.
  - Various statutory committees are constituted in the Institute for formulating and monitoring the effective implementation of different plans and policies of the Institution. The goal, activities, authorities and responsibilities of these committees are well defined for planning and monitoring of their respective activities for effective implementation.
  - The quality policies and plans are analyzed and reviewed through the feedback from various stakeholders time to time.

#### **6.1.5 Give details of the academic leadership provided to the faculty by the top management?**

- The Principal heads the academic structure of the institution, where leadership is vested in a top-down approach.
- The Academic Committees are headed by able faculty, who execute academic responsibilities.
- The faculty takes up positions in the Academic Advisory committee, Examination committee, Library committee, Research and Development committee, Training and Placement cell, Industry Institute Interaction Cell etc., which helps in the conduction of effective teaching-learning process.
- The HoDs, Course Co-ordinators and Class coordinators execute responsibilities at the department level.

#### **6.1.6 How does the college groom leadership at various levels?**

- **Faculty Level:**

As the head of the institution, The Principal is the sole controller of academic and administrative activities.

The HoDs act as the leaders in the respective departments. In each department various faculty members are given responsibilities like class coordinators, subject mentors, examination coordinator, faculty advisor-student association, training and placement coordinator etc.

The faculty members are assigned the work of conveners of various Institute level committees, Associations, NSS Programme Officers and ISTE.

- **Student Level:**

A Student Association is formed and the Faculty Advisor, Secretary, Joint-Secretary and Treasurer are nominated by the HoD.

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All classes are having class representatives who are helpful in organizing and conducting various activities and events in the institute.

The students are encouraged to participate in seminars, conferences, technical fests, inter collegiate tournaments and programmes.

**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 Principal is the administrative head of the institute. However, certain administrative responsibilities are delegated to Heads of Departments, Course Coordinators and various functional committees to ensure a decentralized governance system.

- Adequate autonomy is given to all the departments and sections.
- The Head of the department prepares the academic calendar, time table in consultation with the faculty and assigns specific subjects to the departmental faculty based on the area of expertise.
- The department identifies the value-added courses to be delivered depending on the industrial needs, identifies the course content beyond the syllabus and implements it.
- The department organizes various faculty and student enrichment programmes, conducts workshops and organizes industrial tours.
- The department prepares the departmental budget for development and maintenance of laboratories, conducting workshops, conferences etc.
- The faculty have the freedom for democratic participation in expressing requirement for additional laboratory equipment, library books, enhanced infrastructural facilities, additional classrooms, autonomy to work beyond college hours, curricular enrichment etc. with the approval from principal.

**6.1.8 Does the college promote a culture of participative management? If yes, indicate the levels of participative management.**

**Yes,** The college consistently promotes a culture of participative management.

Two faculty members are nominated on the Governing Body of the institute. Three faculty members and a non-teaching staff member is nominated on Local Management Committee of the Institute. These committees are responsible for planning and evaluation of quality policies.

All the stake holders viz. Alumni, Parents, Students, Faculty and Staff have representation in the various statutory and designated bodies. Suggestions of various committees and bodies are considered while

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taking major decisions. Inputs from parents, alumni, industries and students are also considered.

Various academic and administrative activities of the institute are conducted through the following committees and associations such as Student Council, Special Cell Standing Committee for Backward Class Candidates, Purchase Committee, Library Committee, Gymkhana Committee, Grievance Redressal Committee, Internal Quality Assurance Cell (IQAC), Right to Information Committee, Hostel and Health Care Committee, Parents-Teachers Association, Anti Ragging and Student Discipline Committee, Cultural Committee, Staff Academic/ Staff Welfare Committee, Sexual Harassment Prevention Committee, Training and Placement Cell, Alumni Association, Disaster Management Committee, Campus Maintenance Committee, Admission Committee, CDC, EDC, PDC, Magazine and Address Book Committee, Central Academic Monitoring Committee, Students Affairs and Welfare Committee, Planning and Evaluation Committee, Industry Institution Interaction Cell and Examination Committee.

## **6.2 Strategy Development and Deployment**

### **6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?**

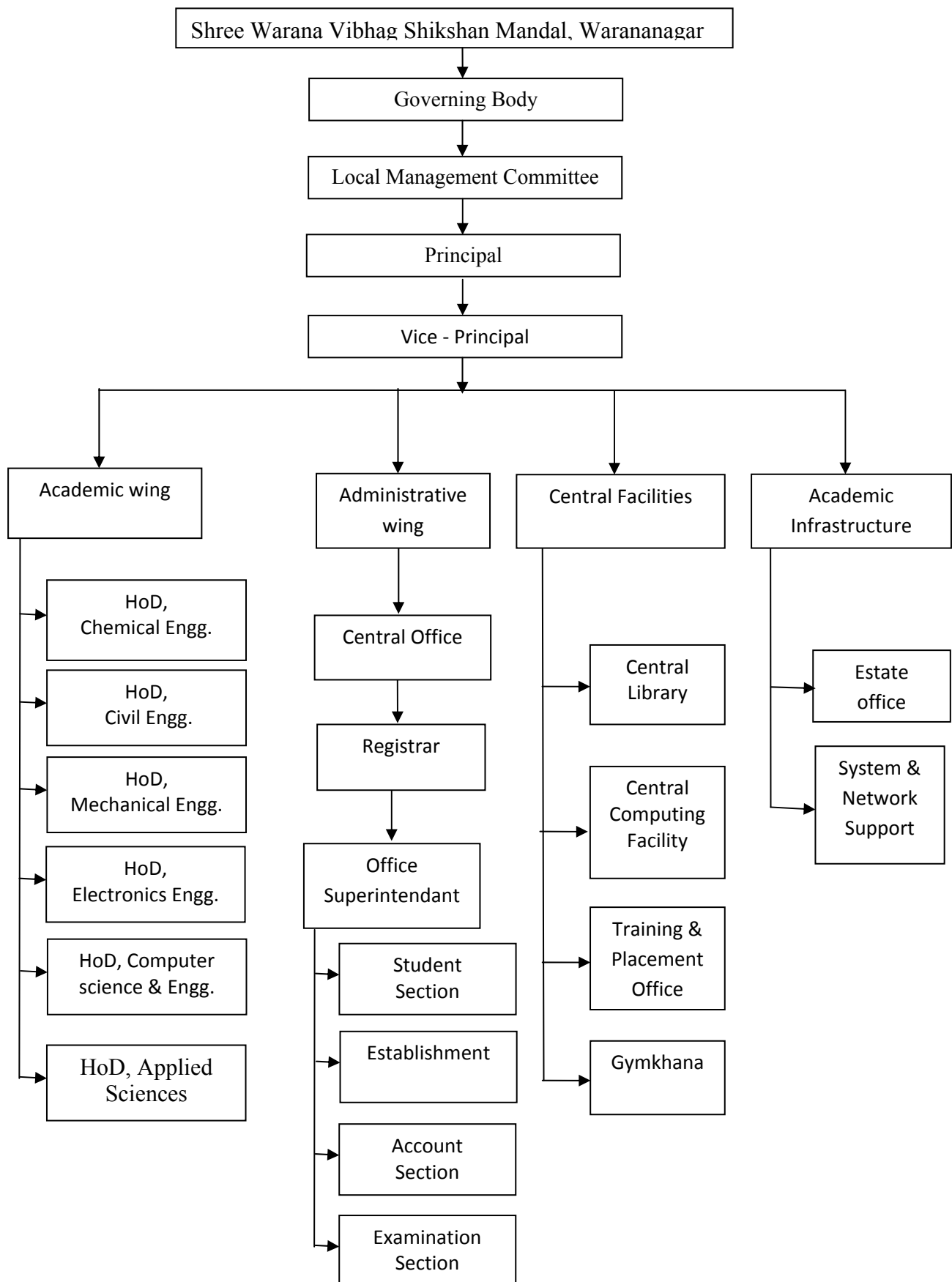
**Yes.** The institution has a quality policy conforming to its vision and mission. Systematic execution of the policy is monitored by academic and administrative bodies. Evaluation and review of the systems is achieved through quality check systems like internal audits and feedback from stakeholders through IQAC.

### **6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.**

**Yes.** The perspective plan is prepared by the top management. Aspects like new courses, additional intake, infrastructural development, transportation, welfare schemes, MoUs, accreditation, research grants etc. are considered for inclusion in the plan by the Governing Body.

### **6.2.3 Describe the internal organizational structure and decision making processes.**

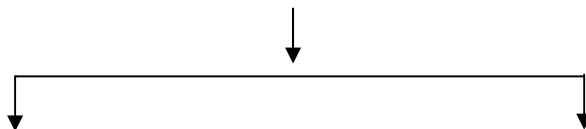
- The institute is run by the trust Shri Warana Vibhag Shikshan Mandal. The Trust has constituted a Governing Body for the institute, consisting of members from various sections of the society and members from statutory bodies like AICTE, DTE and University.
- The Principal heads the academic and administrative departments of the institute and acts as an interface between the management, staff and students. The organization chart of the institute is as below,



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### Academic and administrative committees

Principal



Administrative committees	Academic Committees
<ul style="list-style-type: none"><li>➤ IQAC</li><li>➤ Student Council</li><li>➤ Standing Committee</li><li>➤ Purchase Committee</li><li>➤ Internal Complaints Committee</li><li>➤ Antiragging Committee</li><li>➤ Admission Committee</li><li>➤ Hostel and Mess Committee</li><li>➤ Grievance redressal cell</li><li>➤ Gymkhana Committee</li><li>➤ Disaster Management Committee</li></ul>	<ul style="list-style-type: none"><li>➤ Library Committee</li><li>➤ Resarch Committee</li><li>➤ Examination Committee</li><li>➤ Magazine Committee</li><li>➤ Cultural Committee</li><li>➤ Lead College Activite Committee</li><li>➤ Alumni Association</li><li>➤ Industry institute interaction Cell</li><li>➤ Carreer Development Cell</li><li>➤ Enterprenuership Development Cell</li><li>➤ Discipline Committee</li></ul>

#### 6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following:

- **Teaching & Learning:**
- **Research& Development:**
- **Community engagement:**
- **Human resource management:**
- **Industry interaction:**
- **Teaching & Learning:**

In order to improve the teaching-learning process, following strategies are incorporated and implemented.

- Preparation of academic calendar
- Preparation of teaching and laboratory conduction plan
- Monitoring teaching- learning process through periodic academic audits and faculty feedback by the students.
- Continuous evaluation mechanisms through internal examinations like unit tests (mid term and end term tests), preliminary examinations.
- Monitoring students' attendance
- Conducting remedial classes for academically weaker students

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- Providing learning resources through Learning Management System such as Moodle
  - Providing book bank facility to advanced learners
  - Providing e-learning initiatives such as Virtual Labs, NPTEL video lectures, spoken tutorials, MOOC courses, educational CDs /DVDs.
  - **Research & Development:**
    - Establishing research labs in the 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.
    - Incentives and rewards for publications/ research
  - **Community Engagement**

For the overall development of the students, the institute undertakes several social activities as follows

    - NSS activities
    - Blood Donation Camps
    - Free health check up camps
    - Skill based Training to unemployed rural youth
    - Computer literacy programme for school children

In all such activities, students and faculty are involved, along with local village community.
  - **Human Resource Management**

Human resource management plays an important role in achieving the vision and mission of an institute. Following strategies are adopted for human resource management.

    - Well-defined recruitment policy based on merit of the applicant within the general frame-work of the statutory norms.
    - Better teaching-learning environment in the institution
    - Democratic way of administration with participative management
    - Staff development programs.

- 
- Duty leaves to faculty for attending workshop, symposium, conference etc.
  - Encouraging faculty members to attend STTPs.

- **Industry Interaction**

Industry Institute Interaction Cell has been formed by the institution. This cell works in collaboration with the industries and provides hands on exposure to the students on real work environment in the industries. The following activities are carried out by the Industry Institute Interaction Cell such as,

- Guest lectures by the industry experts
- Soft skills training programmes
- Signing MoUs with industries and institutions.
- Industrial Tours
- Student Internship programmes
- Software training courses

**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 Head of the Institution get feedback from stakeholder namely parents, alumni, industry and students about teaching quality, curriculum, extracurricular activities and infrastructural facility.
- Information is also gathered through suggestion boxes located at prominent places in the Institute.
- This information is submitted to the top management by the Head of the Institution. The Information gathered from different sources is reviewed by the top management and appropriate actions are initiated and are communicated to all the concerned stakeholders.

**6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?**

The management encourages and supports the involvement of the staff in improving the effectiveness and efficiency of the institutional processes in the following manner.

- Involves the staff members in various activities and decision making process related to the curricular, extra-curricular and administrative development of the institute.
- Appreciates and rewards the staff for their achievements in academic and research activities.



- Provides expenses for registration and travelling for attending workshops/conferences.
- Sponsors staff for STTPs, conferences, workshops and orientation programs.
- Provides special leave for higher studies
- 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. Governing Body Meeting Resolutions & Action Taken for the last year**

**Minutes of last Governing Body meeting held on 24-05-2014**

<b>Agenda No.</b>	<b>Governing Body Minutes</b>	<b>Action Taken</b>
1	<b>Review of minutes of last meeting</b>	Minutes are confirmed after discussion
2	<b>Review of admissions for the academic year 2015-16</b> The review of admission position for the year 2015-16 was taken and it was resolved to take appropriate measures for the improvement in admission for electronics engg. and in computer sci. engg.	1. For Enhancing admissions scholarship scheme is desgined for students. 2. Interaction programmes for aspiring students from nearby institutes arranged.
3	<b>Budget for the financial year 2015-16</b> The budget was approved with following corrections 1. Creation of separate budget head for testing and consultancy. 2. Creation of separate budget head for Students' training program.	Seperate budget heads created for testing and consaltancy and students' training program.
4	<b>Proposal of fee structure for the year 2015-16</b> The proposal was reviewed and finalized.	Proposal sent to shikshan shulk samiti for approval.
5	<b>Introduction of new courses</b> It was resolved to apply for following new courses from the academic year 2016-17 a. UG- i. Electrical Engg. ii. Mechanical Engg. II <sup>nd</sup> Shift	

	b. PG i. Computer Sci. & Engg. ii. Structural Engg.	
6	<b>Permanent affiliation to University</b> It was resolved to send the proposal to the university for permanent approval for all the courses	Proposal submitted to University.
7	<b>Review of faculty recruitment</b> The review of faculty recruitment process was taken and it was decided to initiate the process of faculty recruitment after getting the approval from the university	Statment of vacency position sent to university for approval.
8	<b>The review of faculty recruitment process.</b> It was resolved to imitate the process of recruitment after getting the approval for roaster and advertisement from the University.	Process initiated by sending draft advertisement to university for approval.
9	<b>Approval for the recommendations of the Local Management Committee</b> The recommendations were reviewed	The recommendations accepted
10	<b>The review of the NBA/NAAC accreditation process.</b> The Institute was accredited twice in the past. It was resolved to apply for NAAC and NBA once again.	Applied for NAAC accreditation

**6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If yes', what are the efforts made by the institution in obtaining autonomy?**

Yes. The institution is in the process to apply for acquiring the autonomy.

**6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?**

- The institute has following grievance redressal committees for staff and students. These committees comprises of senior faculty and administrative staff.
  - Grievance Redressal Committee for staff and students
  - Ladies complaints prevention Committee

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- Anti-Ragging Committee
  - Disciplinary Committee

The grievances/complaints received if any, are timely attended and resolved by the respective committees

**6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?**

No. There isn't any.

**6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If yes, what was the outcome and response of the institution to such an effort?**

Yes, the institution does follow the practice of taking a feedback from the students. Exit level feedback from the graduates of each programme regarding teaching-learning processes, infrastructure and student-support system are also taken. Based on these feedbacks, changes are made in the infrastructural facilities and modus operandi of the Institute.

**6.3 Faculty Empowerment Strategies**

**6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching & non teaching staff?**

The Institution supports teaching and non-teaching staff to enhance professional development by:

- Motivating faculty for Higher study.
- Deputing to attend STTPs, Workshops, Conferences at National and International level
- Motivating to become members of professional bodies and societies.
- Providing training for teachers through Faculty Development Programmes
- Developing Industry Interaction through Industry Institute Interaction cell
- Providing journals and reference books for research and development.
- Deputing non-teaching staff for training in particular field of their interest
- Encouraging non teaching staff for higher studies and short term training programs.

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**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 the faculty empowerment the Institute takes following efforts:

- Arranges training programs for administrative skill development, personality development.
- Training programmes for upgrading technical skills.
- Deputing the faculty for refresher courses, orientation programs, summer/winter short term schools.
- Inviting experts from industry and research institutes for interactions with the staff.
- Creating congenial atmosphere for personal growth
- Arranging orientation programs for fresh recruited faculty.
- Providing infrastructure for carrying out the research work.
- Providing platform to work in the area of their interest.

**6.3.3 Provide details of the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.**

A systematic Performance Based Appraisal System (PBAS) and Self Appraisal Report (SAR) is in place for evaluation of faculty members which includes the following parameters:

- 1) General information and academic background.
- 2) Courses attended during the year
- 3) Academic performance- Teaching, learning and evaluation related activities
- 4) Co-curricular, extension, professional, development related activities.
- 5) Research, publication and consultancy.
- 6) Other relevant information

**6.3.4 What is the outcome of the review of performance appraisal records by the management and measure decisions taken? How are they communicated to the appropriate stakeholder?**

The PBAS and SAR reports are reviewed by Head of Department and then by central scrutiny committee. Depending upon the score, performance of a particular faculty and a staff is graded as excellent/ very good/ good/ satisfactory or non-satisfactory.

After scrutiny of PBAS and SAR by central scrutiny committee the Head of the department submits the reports to the top management through the principal.

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Faculty having excellent performance is appreciated by the management by giving appreciation letter and personal counseling and remedial action is taken for non-satisfactory performance.

**6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?**

The following welfare schemes are provided for teaching and non-teaching staff,

- Employees Provident Fund
- Gratuity
- Group Insurance
- Concession in tuition fees for the children of the employees studying in the institute
- Uniform for peons
- Safety shoes and apron for workshop staff
- Staff credit society.

All the staff members are benefited with above schemes.

**6.3.6 What are the measures taken by the institution for attracting and retaining eminent faculty?**

Institution always recognizes and retains the talented faculty members with the following attractive measures for better career prospectus.

- Attractive pay scale (As per sixth pay commission)
- Career Advancement Scheme (CAS)
- Fee concession to the wards of the staff studying in the Institute.
- Sponsorship for higher studies
- Incentives for publications and academic performance
- Accommodation facility in the campus
- Admission to children of staff on priority basis in schools / colleges run by the trust.
- Positions on statutory and non-statutory bodies related to Governance and administration of the institution.

**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?**

The Institution has following well defined mechanism to monitor effective and efficient use of available financial resources.

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### **Preparation of the budget**

At the beginning of every academic year, requirements in terms of infrastructure, laboratory and library facilities etc are obtained from all departments, library and gymkhana. Based on this the budget is prepared by the finance committee/account section.

After reviewing projected income, provisions are made for staff salary, allowances, infrastructure development, laboratory equipment, amenities, books and journals, administrative expenses etc.

The budget is then approved by local managing committee and is placed before governing body for final approval.

- Purchases are made with the recommendations of duly constituted purchase committee.
- Every transaction is supported by vouchers.
- All the collections are deposited in the bank.
- All expenditure, recurring and nonrecurring transactions, are incurred through cheques.
- Only duly authorized persons can operate the transactions through the bank.

#### **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.**

- For effective check of the accounts, a two-tier audit system is followed regularly. i.e. an internal audit and external audit. The auditors are appointed by the Governing Body and the audit is carried out once in a year. The external audit is done by a Chartered Accountant firm.
- After the audit the balance sheet along with the audit report is submitted to the management for review.
- The audited balance sheet is put before the LMC and governing body for approval.
- The last audit was done on 25/06/2015 for the period of April 2014 to March 2015.

As the use of available financial sources is effectively monitored there are no major audit objections pointed out and hence compliance does not arise.

#### **6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.**

- The major source of receipts for the institution is through the tuition and other fees paid by the students.

- The trust has adequate funds the question of deficit does not arise.
- The audited income and expenditure statements of the previous four years are enclosed for your reference.

**6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).**

Additional funds are acquired by the institute from various agencies like MHRD, AICTE, DST and University in the form of grants. The funds obtained in the last four years are given below

**Academic Year 2011 – 2012**

<b>Sr. No.</b>	<b>Project / Programme for which Funding is Granted</b>	<b>Funding Agency</b>	<b>Amount Rs.</b>
1	MODROBS in Advanced Heat Transfer Lab.	MHRD/AICTE	8,42,000
2	Development of Metrology and Q.C. Lab.	MHRD/AICTE	12,00,000
<b>TOTAL</b>			<b>20,42,000</b>

**Academic Year 2011 – 2012**

<b>Sr. No.</b>	<b>Project / Programme for which Funding is Granted</b>	<b>Funding Agency</b>	<b>Amount Rs.</b>
1	MODROBS in Advanced Chemical Engineering Laboratory Programming	MHRD/AICTE	1,45,600
2	MODROBS In Mechanical Operation Laboratory	MHRD/AICTE	76,054
3	Setup of advanced Network Technologies Remote and Virtual Lab. As An Aid To Support Teaching and Learning Network Technologies	MHRD/AICTE	5,76,000
4	Effluent Treatment of Dairy Waste By Ultra filtration	MHRD/AICTE	12,15,000
5	Seismic Qualification of Sugar Factories in Western Maharashtra (Kolhapur District) Major Area	MHRD/AICTE	18,90,000
6	Modelling and Simulation of Wideband Microstrip Antenna for Mobile Communication	MHRD/AICTE	8,00,000
7	Industry Institute Partnership Cell	MHRD/AICTE	6,76,000
<b>Total</b>			<b>53,78,654</b>

The funds recived are utilized for development of respective laboratories

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## Internal Quality Assurance System (IQAS)

### 6.4.5 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 institute has established an IQAC, details are as below,

Sr. No.	Name	Representation as	Designation & Organization
1	Dr. Anekar S. V.	Chairperson (Head of the Institution)	Principal, TKIET, Warananagar
2	Dr. Hirdekar B. M.	Member (Educationist)	Registrar, D Y Patil University, Navi Mumbai
3	Shri. Kulkarni Madan	Member (Industry Rep.)	CMD, Kalakruti Industries Kolhapur
4	Mr. Kumbhojkar V. A.	Member (Management Rep.)	Member Governing Council, SWVS Mandal
5	Dr. Chougule U. S.	Member (Parent)	Administrative Officer, TKCP Warananagar
6	Mr. Thombare D. S.	Member (Administrative officer)	Registrar, TKIET Warananagar
7	Prof. Birajdar B V	Member (Administrative Officer)	Dean Administration & HOD, Civil Engg.
8	Prof. Patil S. T.	Member (Administrative Officer)	Training & Placement Officer
9	Prof. Desai S. A.	Member (Administrative officer)	Head, Dept. of Chemical Engg.



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10	Dr.(Mrs) Patil V. D.	Member (Teacher)	Asst Professor, Applied Science Dept.
11	Prof. Patil G. V.	Member (Teacher)	Asst Professor, CSE Dept.
12	Dr. Desai S. S.	Member (Teacher)	Asst Professor, Applied Science Dept.
13	Prof(Smt) Chougule B. A.	Member (Teacher)	Asst Professor, CSE Dept.
14	Shri Lad A. T.	Member (Administrative officer)	Librarian, TKIET Warananagar
15	Shri Jadhav N.B.	Member (Administrative officer)	Head, System and Network Support.
16	Shri. Sangram Ghorpade	Member (Alumni Rep.)	Manager, Technomont Mumbai.
17	Miss. Diwan Tejashri	Member (Student-Rep.)	B.E. (Computer Sci. Engg.)
18	Prof. Gambhire V. R.	Co-ordinator	Professor, Dept. of Mechanical Engineering

The institute gives utmost importance to assure quality in all its processes. The institute policy with regards to quality assurance is proper planning, execution, monitoring and evaluation. These key factors are executed in the following manner.

**The policy of the institution with regard to quality assurance is:**

- Fixing quality parameters for various academic and administrative activities.
  - Organizing and monitoring the class work and related academic activities.
  - Conducting Internal Quality Audits periodically to verify the effectiveness of measures taken in reaching the quality parameters.
  - Documenting various programs / academic activities leading to quality improvement and reviewing their effectiveness in quality improvement/sustenance
  - Broadening global perspective and to promote the institutional tie-up.
- b) The important decisions taken by IQAC during recent years are generally approved by management. The requirements and modifications needed for each department are reviewed and**

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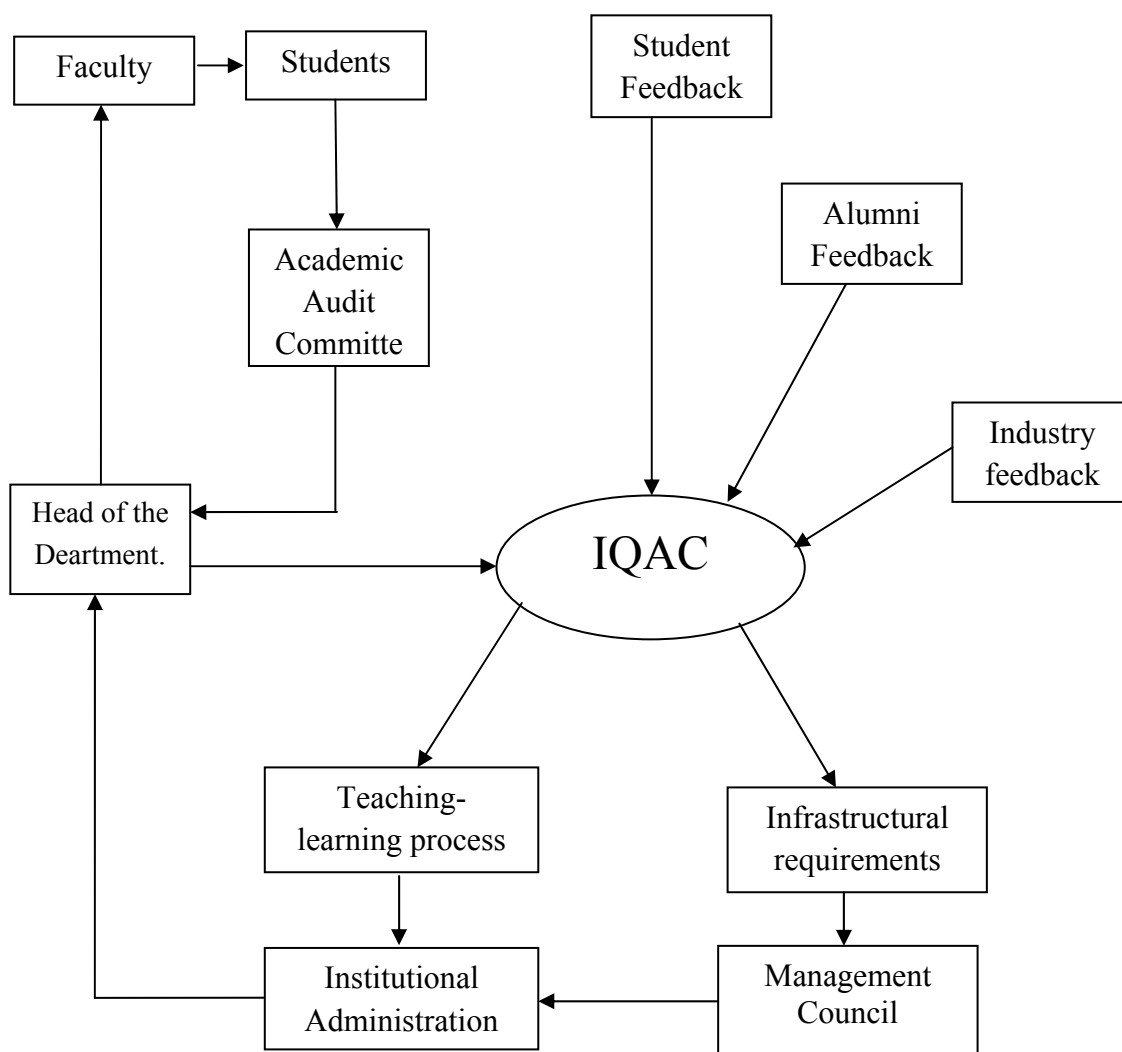
finalized in the departmental faculty meetings and are sent to central IQAC for approval.

Following decisions of IQAC have been approved by the Management for implementation in the recent years

- Infrastructure development
    - Expansion of Library building
    - Construction of Seminar halls
    - Construction open air theatre
    - Construction of cafeteria
    - Renovation of entrance of main building
  - Introduction of mentoring system and academic audit.
  - Introduction of Moodle system for improving teaching learning processes.
  - Providing Wi-Fi facility in campus.
  - Applying for accreditation by National bodies like NAAC, NBA.
  - All above decisions are successfully implemented.
- c) Yes. There are three external members on IQAC. One from industry, one from alumni and the other is an eminent academician.
- The expert from industry recommended to enhance Industry Institute Interaction and to add value added courses. The eminent academician emphasised on effective performance appraisal system.
- d) The faculty feedback and Institutional feedback is collected every year from the students. Alumni feedback is collected during regular alumni meets. These feedbacks are rigorously discussed and reviewed in the IQAC meetings.
- e) The head of the department is one of the members of IQAC. IQAC communicates with faculty and students through heads of the department. The HOD communicates and executes the decision of IQAC in the department.

**6.4.6 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.



**6.4.7 Does the institute provide training to its staff for effective implementation of the quality assurance details enumerating its impact?**

Yes. The institute provides training to its staff for effective implementation of the quality assurance.

- The knowledge and skills of the staff is upgraded through institute level training programs
- Computer handling skills of the staff are improved after undergoing the training

**6.4.8 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

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- The progress of the syllabus coverage is reviewed and additional lectures required if any, are provided to complete the syllabus of the respective subjects.
  - The findings of the audit are communicated to the respective faculty and to the management.
  - Counselling of the faculty is carried out by the senior faculty and HoD (if required) for improvement in the teaching skills.
  - The training needs of the faculty are identified and training is provided in the respective areas.

**6.4.9 How is the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies / regulatory authorities?**

The statutory requirements of the regulatory authorities AICTE and Shivaji University, Kolhapur are applicable to the institute. The statutory conditions regarding faculty, infrastructure, library, research and development are reviewed in the regular IQAC meetings. It is ensured that these conditions are strictly followed as per the norms of AICTE and Shivaji University, Kolhapur.

**6.4.10 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcomes?**

Following are the mechanisms used to continuously review the teaching learning process

- Audit of academic activity from peer group.
- Mid-semester feedback about a teacher from the students.
- Academic audit about syllabus coverage every month.
- Subject mentoring scheme for the staff and students.
- Guardian scheme for the students.

The Principal takes the review of teaching-learning process on a continuous basis and suggests any modifications, improvements, if required.

The views and feedback from all the stake holders is collected twice in a semester by Head of the department. The Head of the department ensures academic integrity by keeping an eye on the regular progress of classes, listening to the grievances of the students and faculty and trying to solve such problems. The quality of the teaching learning process is monitored through subject mentors.

This mechanism helps to improve the quality of academic process. The individual faculty gets inputs to improve his/her performance.

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#### **6.4.11 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:

- Vision and Mission are displayed on the website of the institution.
- Vision and Mission are printed on academic diary of the staff and student's journals.
- Vision and Mission statements are displayed on boards at prominent places in campus.
- Vision and Mission are included in the information brochure.
- Quality assurance policy and mechanism is discussed in induction programs conducted in the beginning of the academic year, parent-teacher association meetings, alumni meets, inaugural functions of students associations etc.

#### **Any other information the institute wishes to give?**

- TKIET, Warananagar is one of the premier technical educational institutions run by Warana co-operative complex started in 1983 under the visionary leadership of Late Shri Tatyasaheb Kore.
- Since its inception, the institute has gained the trust and appreciation of thousands of students, parents and industries. It has emerged as a leading technical institute in the region nurturing the needs of technical education, particularly the students from rural area.
- Philosophy of institute is always student centric, where students acquire skills and knowledge to take up the challenges of 21<sup>st</sup> century- the Digital Revolution. Innovations and novel ideas are the keys to the bright future at this end.

# **Criterion VII**

## **Innovations and Best Practices**

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## CRITERION VII : INNOVATIONS AND BEST PRACTICES

### 7.1 Environment Consciousness

#### 7.1.1 Does the Institute conduct a Green Audit of its Campus and facilities?

Yes, the institute conducts Green Audit. It is carried out with respect to Energy, Water, Solid waste and hazardous waste management, as per the guidelines of Central Pollution Control Board, Govt. of India. The use of plastic is avoided in the campus. Office notices are sent through e-mails. The power supply to electric and electronic gadgets is used only when needed. Institute conducts Green Audit and calculates potential Carbon sequestration and thus leads towards Carbon neutrality. In addition to this the salient features are as follows,

- It undertakes energy audits of the departments, office, library, etc.
- Institute has planted different types of trees.
- Institute practices rain water harvesting on the campus.
- Institute practices disposal of solid waste, e-waste and hazardous waste.

#### 7.1.2 What are the initiatives taken by the college to make the campus eco – friendly?

##### 1) Energy conservation

- Maximum use of natural light in each building.
- Class rooms, labs, office, seminar halls, canteen, library, corridor are constructed with proper ventilation.
- CFL lights are used in place of conventional filament lamps.
- Fans and air conditioners are used only when it is essential.
- UPS battery maintenance is regularly done.
- LCD monitors are present in every departments and office.
- There is always awareness about energy conservation among students and staff.
- Instructions such as switch off light and fans while leaving the working area are displayed prominently.
- Conduction of energy conservation workshops.

##### 2) Use of Renewable Energy

- Solar heating plant is present in boys/girls hostel.

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- Wind energy plant is present in the campus which generates 3.2kW electricity

### **3) Water harvesting**

- Rain water is collected from all buildings through ducts and pits which is used for ground water recharge.
- Sewage treatment plant of proper specifications is installed.
- Water is reused for gardening purpose.

### **4) Check Dam Construction**

The institute is located in an area having a plain topography without much of rough, undulating surface, having no streams in the area. Thus construction of check dam is not possible at such location. However, a small dam is constructed in the hostel campus to collect the water in rainy season and to improve percolation.

### **5) Efforts for Carbon neutrality**

- The institute takes care to maintain greenery in the campus throughout the year.
- 450 number of coconut and 700 other types of trees are present in the campus which reduce considerable amount of CO<sub>2</sub>.
- College roads are surrounded by different trees and lawns on both the sides.
- Observation of no vehicle day on alternate Saturdays.
- Most of the faculty and students are staying inside or near the campus.
- Faculty/students staying outside the campus are sharing the vehicles.
- Canteen, reprographic, and ATM facilities are present in the campus which reduces the fuel consumption.
- PUC camps are arranged periodically.

### **6) Plantation**

- The institute is known for its lush green, nicely maintained campus.
- Drip and sprinkler irrigation systems are used for watering, that saves large amount of water.
- Plantation of various trees and herbal medicinal plants is done in the campus and outside the campus by NSS team.



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- World Environment Day is celebrated to encourage the plantation

## **7) Hazardous waste management**

In the Department of Biotechnology and chemistry laboratory various experiments and projects are carried out in which a number of carcinogenic and hazardous chemicals as well as bacterial samples are used. Safety instructions are displayed to avoid the mishaps in these laboratories.

### **a) Precautionary Measures**

1. Precautionary measures are displayed in each laboratory.
2. Lab coats/aprons are mandatory for students while performing experiments.
3. Disposable gloves and masks are used while handling hazardous chemicals.
4. Hand wash is compulsory before and after the experiment is performed.
5. All the chemicals are in the custody of store keeper and are issued under strict supervision and sanction.
6. Fire extinguishers are fixed in each laboratory in case of any emergency.
7. Face shield or glass partition is used to avoid direct contact with UV light.
8. First aid boxes are provided in laboratories

### **b) Hazardous waste management**

1. After the use of hazardous chemicals, all the equipment are heated in the autoclave at 121<sup>0</sup> C temp and 15 lbs pressure for 20 mins.
2. Hazardous matter is carefully disposed in the disposal pit.

## **8) Solid Waste Management**

1. The solid waste in the form of leaves, fruits etc. is collected and used for vermiculture and composting plants.
2. Dustbins of suitable capacities are provided in each cabin, laboratory, office, canteen etc. to facilitate smooth collection.

## **9) e-waste management**

1. Old computers and equipment are sold to licensed vendor.
2. College strictly follows old buy back scheme.

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3. Unused discs are given to schools as per the requirements for decorative and “Best from Waste” purpose.
  4. E-waste collection is carried out from various engineering departments, boys and girls hostels as a NSS activity.
  5. Collected e-waste is provided to Rotary Club Kolhapur and Mahalaxmi Recycler Kolhapur for safe disposal
  6. E-waste collection camps are organized by NSS.

#### **10) Other**

- Nature Club organizes activities such as Trekking, visit to historical monuments, organization of camp for protection of historical monuments, bird watching camp, World Wildlife Fund (WWF) week celebration and Wild life demo lecturers, camps on disaster management, plastic disposal etc.
- In-house competitions like poster presentation, photo exhibition, essay writing related to nature are arranged
- Donation of Ganesh idol to NSS team for avoiding pollution of surface water.
- Conduction of Moodle based online tests.
- Celebration of World Environmental day ( 5<sup>th</sup> June), World Ozone day (16<sup>th</sup> Sept.), World Water day (22<sup>nd</sup> March ), World Earth day (22<sup>nd</sup> April).
- Celebration of “Digital India Week” 1<sup>st</sup> July to 7<sup>th</sup> July 2015.
- Celebration of “National Yoga Day” on 21<sup>st</sup> June 2015.

### **7.2 Innovations**

#### **7.2.1 Give the details of innovations introduced during the last four years which have created a positive impact on the functioning of the college**

1. Induction program is conducted for First year Engineering Students and Direct second year students on the very first day of the commencement of the academic year. Information sheet distributed to students in the induction program, which consists of academic calendar, curriculum, faculty names, laboratory locations, library facility, rules and regulations etc.
2. Study material like notes, assignments, and previous university question papers, model answers of Unit test and prelim exams, presentations, animation videos is made available on Moodle platform. Hard copy of Lab Manuals are also made available.

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3. Virtual labs are developed to enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.
  4. Course coverage is closely monitored by subject mentors and class co-ordinators and report of same is submitted to FE chief coordinator and HOD's of various department weekly. Unit test performance and monthly attendance of students is informed to parents through SMS. Remedial classes are systemically planned and executed to make up for students performing poorly.
  5. Institute conducts various workshops for faculty as well as students of nearby colleges in collaboration with MHRD-NMEICT through IIT Bombay and IIT Kharagpur since June 2012.
  6. Students' feedback is collected through academic audit system, analyzed and communicated to all faculty members once in a month. The faculty members with poor feedback are counselled by Principal and Head of Department. Suitable training if needed is given to such faculty.
  7. Performance of faculty is reviewed based on Self Appraisal Report (SAR) submitted by faculty twice in a year and Performance Based Appraisal System (PBAS) once in a year.
  8. Soft skills Training- Mock interviews and company based training is conducted by the faculty and experts from reputed institutes and industries for major recruitment drives for various companies. Group Discussion competitions are organized under Career Development Cell to enhance student skills. Faculty and certified trainers from professional training institutes conducts coaching for competitive examinations.
  9. National Level Technical Paper presentation competition under the banner EUREKA and model making, Technical exhibition, Industrial problem solver and Project Competition under the banner JIDNYASA is conducted in institute yearly for students to acquire analytical thinking, innovative attitude and creativity.
  10. Every department has vibrant students' association run by a committee of students under the guidance of a faculty advisor. The associations conduct numerous activities throughout the year which help the students to acquire organizing skills and overall improvement in their personality. The institute also has a separate students' association for First Year Engineering students.
  11. The institute conducts Parents-Teachers Association (PTA) meet every semester. PTA acts as a forum to address the grievances of both parents and students. Corrective actions, if necessary, are taken based on the suggestions given by the parents.

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12. Faculty is appointed as mentor for a batch of 20 to 22 students. The mentor conducts regular meetings with the students and addresses all their problems.
  13. The Institution encourages students in extracurricular and co-curricular activities, which play a vital role in holistic development of students. A number of clubs like Marathi Sahitya Mandal, Nature Club have been constituted to conduct different extracurricular and co-curricular activities for the students.
  14. Horizon, the college student magazine is published annually, which contains sections like technical, language and art, students' achievements and important activities in the institute in the academic year. Also it encourages writing skills of the students. Horizon has bagged numerous of prizes at University Level College Magazine Competition.
  15. The institute has a very active alumni cell. Alumni meets are conducted regularly at the institute as well as at other places such as Hyderabad, New Delhi, Mumbai, Pune etc. Alumni chapters are active at locations including some chapters in USA. Distinguished alumni are invited as chief guest for the Annual Social Function each year. Alumni share their success stories in the form of articles in the 'Horizon'.
  16. System and Network Support department is formed, which is entrusted with system security, maintenance and up keeping of the institute computer network. It also provides facilities such as SMS gateway, Moodle platform, E-content services, Virtual laboratory, AKASH laboratory, Internet and Wi-Fi services.
  17. Various departments arrange field training for the final year students. Departments also have MOU's for the training and placement of the students. Department also supports to students for Industry sponsored projects. Industrial Tour is also arranged each year in various companies to give the exposure to the students.
  18. The institute has a vibrant ISTE students' chapter. Students participate in various activities organized under ISTE banner. The institute has received best student chapter award twice.

#### **Best Practice -1**

**Title of the Practice – The Best Outgoing Student (BOS) of the year award.**

- **The Goal –**

Best outgoing student (BOS) award is a very prestigious award of the institute and the award adds feather in the cap of the winner. The objective of this award is to motivate the students to participate and excel in various activities organized in the institute and to acquire skill

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sets required for career growth. Even though the criteria for BOS are very stringent, there is cut-throat competition for this award amongst the students. Only one student bags this award every year but many others are inspired by this activity.

- **The Context –**

The BOS is selected from the eligible students from all the programmes at the institute.

The marking scheme is as follows –

Sr. No.	Performance Indices	Max. Score
1	Academic Performance	30
2	Participation in Cultural Events	05
3	Participation in Sports	05
4	Participation in Seminars /Training	05
5	Campus Placement	05
6	Involvement in Social Activities	05
7	Paper Presentation/Projects/Quiz	05
8	Attendance	05
9	HOD's Feedback	05
10	Performance in Aptitude Test	10
11	Performance in Group Discussion	10
12	Personal Interview	10
<b>Total</b>		<b>100</b>

The final year students who are eligible to compete for this activity have to submit the required information to a BOS committee. The committee scrutinizes the documents and shortlists students for this award. A wide publicity is given to the names of the shortlisted candidates which encourages the junior students. The performance of first seven semesters is considered for the selection.

- **The Practice –**

Applications are invited from the students having First Class in all seven semesters with no live ATKT and bearing good conduct. The selection process starts one month before the Annual Social Function. The marking scheme is displayed to the students contesting for this award. The students are required to submit the supporting documents along with the applications. The applications are scrutinized by the BOS committee. 10 to 12 students are shortlisted for the final competition. A panel of experts is invited to conduct group discussion and personal interviews of the finalists. After reviewing all the 12 criteria, BOS of the year is finalized by the scrutiny committee. The winner is announced in the Annual Social Function and the trophy is conferred by the Chief Guest.

- **The Problems encountered-**

- The curriculum of first year of engineering is common for all programmes hence, the performance is comparable. However, for the next three years, the curriculum is different for different programmes, therefore, the ease or difficulty level and hence the scoring pattern is different. Therefore, it is difficult to compare academic performance of different programmes.
- Some students who are strong in co-curricular and extra-curricular activities may have less score in academics. Thus, there is a chance that such genuine students are kept out of the arena of the competition.

- **Evidence of Success-**

The institute follows the practice of giving best outgoing student award since last 25 years. It is the experience that the students who have bagged this prestigious award have emerged as leaders in their career. Even the students who become eligible for the contest always carry the sense of responsibility and have become successful. The records reveal that they have reached at the height of their career and still marching ahead. The students both winning the award and participating in the competition have become successful entrepreneurs; some of them have gone for PG programmes at reputed institutes in India and abroad. Many are working with prominent multinational company and excelling high.

- **Following is the list of BOS since 1991-1992, along with their job status**

Sr. No.	Year	Name	Job Status / Designation
1	1991-1992	Mr. Yogesh Kulkarni	GM, Lucit International Singapore.
2	1992-1993	Mr. Mandar Apte	Founder, Technip energy utility.
		Mr. Yatindra Rehani	Ingram Micra, Mumbai
3	1993-1994	Mr. Jagdish Patel	Software Consultant
4	1994-1995	Mr. Vaijnath Kulkarni	M.D, Galaxy Chemical Ltd. Egypt Div.
5	1995-1996	Mr. Tushar Kulkarni	Cognizant, Pune
6	1996-1997	Mr. Rupchand Lohana	DGM, L&T, Mumbai
		Mr. Parikshit Dalavi	Director, DCS Ltd. UK.
7	1997-1998	Mr. Raman Madan	V.P, Morgan Stanley New York
8	1999-2000	Mr. Roopak Gupta	Kaizen Tech, US
9	2000-2001	Mr. Rohan Maniyar	Founder, Rishi infra pvt.ltd, Vadodara

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10	2001-2002	Mr. Nilesh Vyahare	Founder, SAN Engg. Ltd. Kolhapur.
11	2002-2003	Mr. Mehendra Shetake	Oracle Ltd, Bangalore.
		Mr. Devashis Sanas	Mphasis HP Co., Pune
12	2003-2004	Mr. Tushar Katkar	Infosys, Pune
13	2004-2005	Mr. Akush Ujawane	General Motors, Mumbai.
14	2005-2006	Mr. Surjit Barakotty	Entrepreneur
15	2006-2007	Mr. Rajendra Bhosale	IBM. Pune
16	2007-2008	Mr. Sandesh Mane	ISRO Maitri station, Antarctica.
17	2008-2009	Mr. Pravinkumar Jagtap	Tummunich, Germany
18	2009-2010	Ms. Supriya Patil	Pursuing Ph.D at IIT Bombay
19	2010-2011	Mr. Sourabh Borchate	DYP Institute, Pune
20	2011-2012	Mr. Pravin Ingavale	Asst. Comm. of Police (ACP) Central Armed Police Force
21	2012-2013	Mr. Namdev Patil	Jindal Steel, Ratnagiri.
22	2013-2014	Mr. Suhas Salunkhe	Engg. ICB Technimount. Mumbai.
23	2014-2015	Ms. Manasi Takale	Trainee Engg. in TCS, Pune

- **Following is list of some of the students shortlisted for the competition**

Sr.No.	Name of the Student	Year	Present Jobs /Achievement
1	Ms. Poonam Gambhire	2008	PG from NUS Singapore.
2	Ms. Flavia Saldhana	2009	TCS, USA
3	Mr. Sidharth Shah	2009	Studied Biotech Ent. at John Hopkins University, USA.
4	Mr. Suhas Patil	2011	Asst. Engg. Grade I, PWD, Govt. of Maharashtra.
5	Ms. Bhagyashree Patil	2014	ICB Technimount, Mumbai.

- **Resources Required-**
  - Eligibility criteria.
  - Application from eligible candidates.
  - Original certificates for verification.
  - BOS committee to verify documents.
  - Panel of experts for personal interview and group discussion.
  - Award in the form of certificate, permanent trophy and a rolling trophy

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## Best Practices 2

### Title- Financial assistance to meritorious students

- **The Goal-**

Since the inception of the institute, there is a tradition of awarding financial assistance to meritorious students through different schemes. This assistance is in addition to the scholarships given by State Governments under various schemes. The major objective of these schemes is to attract the students of high merit who will bring name and fame to the institute. It is experienced that these schemes have created a healthy competition among the students. As a result of these schemes the institute has consistently acquired university ranks.

- **The Context-**

There are various schemes to offer financial assistance to students which are listed below,

- 1) Cash Reward for the Class Toppers- A cash prize of Rs.3000/-, Rs.2000/- and Rs.1000/- is given to the first, second and third rank holder(s) of each class respectively. A total of 273 students have been given the cash prize since 2011-12, and the total amount distributed is Rs.47020.00/- (Rs. Forty seven thousand twenty).
- 2) Concession in Tuition Fees- This is offered to the meritorious students belonging to the poorer sections of the society, who otherwise cannot afford engineering education. A total of 51 students were given concession in tuition fees to the tune of Rs.10, 70, 961=00 (Rs.Ten lakh seventy thousand nine hundred sixty one).
- 3) Fee Waiver for the Wards of Employees- This scheme was introduced from the academic year 2013-14. A total of 48 wards of employees were given fee waiver for the amount RS.6, 50, 491=00 (Rs.Six lakh fifty thousand four hundred ninety one).
- 4) Prizes for the First Year Meritorious Students-  
The scheme was introduced since the academic year 2013-14. The students who get top ranks in their qualifying examinations such as JEE, State CET etc.are rewarded with a cash prize. A total of 122 students were given an amount of Rs.77, 000=00 (Rs.Seventy seven thousand).
- 5) Cash awards for the First Year Meritorius Students – Cash awards of Rs.1000/-, Rs.750/- and Rs.500/- are given to all the first year students scoring more than 80%, 75% and 70% marks respectively in the semester-I examination of the Shivaji University since the academic year 2013-14.



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- 6) GATE Qualifier Reward - This reward was started from the academic year 2014-15, for final year students who successfully qualify the GATE with valid score. Total 21 students are rewarded with the amount of Rs.30, 000=00 (Rs.Thirty thousand).
  - 7) Tatyasaheb Kore Warana Sahakari Sakhar Karkhana Scholarship (TKWSSK Scholarship) - This scholarship is awarded to the wards of the shareholders who are taking admissions to the institute. Since the sugar factory of Warananagar is the mother organization and the farmers of this region have contributed for the factory in the form of share holding, it is a kind of special appreciation for the wards of farmers getting admitted to the institute. Since the academic year 2011-12, five hundred fifty one (551) students are benefited by this scheme and the total amount disbursed is Rs.20, 33, 033=00(Twenty lakh thirty three thousand thirty three rupees).

- **The Practice-**

Utmost care is to select the students for various assistance schemes. A committee comprising of the Principal, Heads of departments, admission in charge, Registrar, and the Accountant looks after all the documentary evidences and finalizes the names for offering assistance. For TKWSSK scholarship the student is required to produce the sugar factory membership certificate of his/her parents and the proof of residence .For GATE qualifier award, the student submits the valid scorecard for the rest of the schemes the documents are made available from the college office through which selection is done.

The students getting assistanceship are felicitated at suitable occasions. The meritorious students of F.E. getting ranks in the qualifying examination such as JEE/State CET etc. are honored at the time of Parents-Teachers Association meeting. The class toppers are felicitated during the Annual Social Function.

- **Evidence of Success-**

The great visionary leader and the founder of the institute Late Shri.Tatyasaheb Kore was of the opinion that education is a real tool of economic upliftment of the rural masses. Therefore to encourage the parents to admit their wards in the institute, he introduced various motivational schemes of financial assistance. The result is evident .Even though the institute is situated in rural area, it has remained at par with institutes in urban region and even government technical institutes. The academic performance of the students, teaching learning process, good number of meritorious students, excellent placements, consistent university ranks, increase in GATE qualifiers are the parameters which make the institute a highly preferred technical college. The institute believes that the long path it has travelled successfully is due to the various assistance ship schemes along with certain other factors.

Many students coming from very poor family background were given not only concession in tuition fees but also waiving of hostel and mess charges, which helped them to complete their engineering graduation which was otherwise impossible. Many such students achieved great success in their career and they always owe this to the institute's generosity.

The institute often attracts toppers in the qualifying examinations like JEE/ CET etc. to its various branches who later on excel in their academic performance. The institute believes that being situated in rural area, one of the reasons that the students from Mumbai and other major cities taking admission is the motivation and recognition for their talent.

Since the academic year 2011-12, the institute has disbursed Rs. 44, 08, 755=00 (Rs.Fourty four lakh eight thousand seven hundred fifty five) under various assistanceship/scholarship schemes. Following table shows details of the amount disbursed in each year,

Sr. No.	Type of Scholarship	No.of Students who have received financial assistance						Total Amt. Disbused Rs.
			2011-12	2012-13	2013-14	2014-15	2015-16	
1	Tatyasaheb Kore W.S.S.K. Scholarship	Amt.Rs.	4,46,999	4,86,932	5,12,570	5,86,532		20,33,033
		No.of Students	119	134	138	160		
2	Class Toppers	Amt.Rs.	1,35,066	1,33,316	1,40,571	1,38,067		5,47,020
		No.of Students	67	68	71	67		
3	Gate Qualifier reward	Amt.Rs.				30,000		30,000
		No.of Students				21		
4	Fee waiver for words of employees	Amt.Rs.			2,21,557	2,14,518	2,14,416	6,50,491
		No.of Students			14	18	16	
5	Tuition fee concession	Amt.Rs.	1,24,5263	1,59,561	1,41,114	1,76,265	4,69,498	10,70,961
		No.of Students	10	5	5	5	26	
6	Scholarship to meritorious F.E. students	Amt.Rs.			25,250	52,000		77,250
		No.of Students			43	79		
Total Rs.			7,06,588	7,79,809	10,41,062	11,97,382	6,83,914	44,08,755

The institute has this practice of assisting the needy students since its inception. Following table shows the amount spent on this head since 1990-91.

Sr. No.	Year	Amount Rs.
1	1990-91	7400
2	1991-92	21,250
3	1992-93	1,58,791
4	1993-94	1,28,375
5	1994-95	1,13,250
6	1995-96	94,750
7	1996-97	66,100
8	1997-98	66,200
9	1998-99	85,250
10	1999-2000	2,06,250
11	2000-01	1,20,500
12	2001-02	92,295
13	2002-03	1,06,551
14	2003-04	1,16,807
15	2004-05	1,16,307
16	2005-06	1,16,807
17	2006-07	1,20,560
18	2007-08	1,19,466
19	2008-09	1,33,816
20	2009-10	1,37,066
	Total	21,27,799

Looking at the good results of the various schemes institute pledges to continue these schemes in future as well.

#### **The Problems Encountered-**

Large numbers of requests are received for concession in tuition fees. Since the budget for the year is fixed, it is not possible to provide financial assistance to all the needy students.

#### **Resources Required –**

- 1) Financial allocation for assistance ship / scholarship.
- 2) Committee for scrutinizing the requests.
- 3) Suitable occasions to felicitate the awardees.

# **Evaluative Report of the Departments**

**Department  
of  
Chemical Engineering**

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## Evaluative Report of the Department

1. **Name of the Department** : Chemical Engineering

2. **Year of Establishment** : 1983-84

3. **Names of Programmes / Courses offered:**

Sr. No.	Engineering / Technology			Year of Started
1	UG	BE	Chemical Engineering	1983-84
2	PG	ME	Chemical Engineering	1998-99

4. **Names of Interdisciplinary courses and the departments/ units/ subjects involved:**

Sr. No.	Subjects	Semester	Department Involved
1	Engineering Maths III	III/Chem.	Applied science
2	Chemistry-I	III/Chem.	Applied science
3	Strength of Material	III/Chem.	Civil Engineering
4	Environmental Studies	III, IV/Chem.	Civil Engineering
5	Engineering Maths IV	IV/Chem.	Applied science
6	Chemistry-II	IV/Chem.	Applied science
7	Soft skill	V/Chem.	Applied science
8	IEME	VI/Chem.	Applied science

5. **Annual / semester / choice based credit system (programme wise) :**

Sr. No.	Engineering / Technology		Annual / Semester Credit System
1	UG	BE	Semester
2	PG	ME	Semester

6. **Participation of the department in the courses offered by other departments :**

NIL

**7. Courses in collaboration with other universities, industries, foreign institutions etc.:**

Sr. No	Courses offered	Industries/University
1	ProMax Foundation Course- Level-I ( Refinery focus)	USPTM, Delhi
2	Unisim – Software for process design and simulation	Honeywell, Pune
3	Certificate course in Aspen-plus software	Aspen-Tech, Pune

**8. Details of courses/programmes discontinued (if any) with reasons:**

NIL

**9. Number of Teaching posts :**

Cadre Wise Teaching Faculty	2014-15	
	Sanctioned	Filled
Professor	2	2
Associate Professor	4	5
Assistant Professor	9	8

**10. Faculty profile with name, qualification, designation, specialization : 2014-15**

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience			No. of Ph.D. Students guided for the last 4 years
					Industry	Teaching	Total	
1	Dr. S.V.Anekar	M.Tech, Ph.D	Professor	Chemical Engg.	2	27	29	2
2	Prof. S.A.Desai	Ph.D (Registered) M.E.	Associate Professor	Chemical Engg.	-	25	25	-
3	Prof. J.K.Shinde	M.E.	Professor	Chemical Engg.	-	26	26	-
4	Prof. N.H.Shinde	M.E	Associate Professor	Chemical Engg.	-	26	26	-

5	Prof. S.T.Patil	Ph.D (Registered) M.E.	Associate Professor	Chemical Engg.	-	25	25	-
6	Prof. V.A.Bhosale	M.E.	Associate Professor	Chemical Engg.	3	21	24	-
7	Prof. K.I.Patil	Ph.D (Registered) M.E.	Associate Professor	Chemical Engg.	-	20	20	-
8	Prof. N.S.Patil	M.E.	Assistant Professor	Chemical Engg.	-	22	22	-
9	Prof. P.J.Patil	M.E.	Assistant Professor	Chemical Engg.	2	10	12	-
10	Prof.P.B.Dehankar	M.Tech	Assistant Professor	Chemical Engg.	-	4	4	-
11	Prof. S.V.Kadoli	M.Tech	Assistant Professor	Chemical Engg.	-	3.5	3.5	-
12	Prof. S.U.Patil	M.E.	Assistant Professor	Chemical Engg.	-	2.5	2.5	-
13	Prof. S.S.Patil	M.E.	Assistant Professor	Chemical Engg.	-	3	3	-
14	Prof. S.A.Patil	M.Tech	Assistant Professor	Biotech. Engg	2	2.5	4.5	-
15	Prof. R.S. Kamble	M.Tech	Assistant Professor	Chemical Engg.	0.5	0.5	1	-

11. List of senior visiting faculty : NIL

12. Percentage of lectures delivered and practical classes handled by temporary faculty : NIL

13. Student –Teacher Ratio :

UG - B.E – Chemical Engineering - 15:1

Sr. No.	Academic Year	Sanctioned Intake	Faculty Strength	Student –Teacher Ratio
1	2014-15	60	12	15:1

PG - M.E – Chemical Engineering - 12:1

Sr. No.	Academic Year	Sanctioned Intake	Faculty Strength	Student –Teacher Ratio
1	2014-15	18	3	12:1



**14. Number of academic support staff (technical) and administrative staff :**

Description	2014-15	
	Sanctioned	Filled
Technical Support Staff	3	3
Administrative Staff	1	1

**15. Qualifications of teaching faculty with DSc / D.Litt / Ph.D / M.Phil / PG :**

Qualification	Total
DSc	-
D.Litt	-
Ph.D	1
Ph.D (Registered)	3
PG	11

**16. Number of faculty with ongoing projects from National / International funding agencies and grants received :**

Sr. No.	Name of faculty	Title of the Project	Name of the Funding Agencies	Grants received Rs./-	Status
1	Dr. S. V. Anekar Prof.J.K.Shinde	MODROBS-Advanced Chemical Reaction Engg. Laboratory.	AICTE, New Delhi	1,45,600/-	In-Progress
2	Dr. S. V. Anekar Prof. P. J. Patil	RPS-Effluent Treatment of dairy waste by Ultra filtration.	AICTE, New Delhi	12,15,000/-	In-Progress
3	Dr. S. V. Anekar Prof. S. T. Patil Prof. V. A.	Industry – Institute Partnership Cell (IIPC).		6,76,000/-	In-Progress
4	Dr. S. V. Anekar Prof. S. T. Patil	MODROBS-Mechanical Operation Lab		1,44,046/-	In-Progress

**17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grants received :**

Sr. No.	Title of the Project	Name of the Funding Agencies	Grants received Rs./-	Status
1	MODROBS- Advanced Heat Transfer Laboratory.	AICTE New Delhi	8,42,000/-	Completed
2	Mass Transfer Laboratory-Spray Dryer.		7,00,000/-	Completed
3	MODROBS- Advanced Chemical Reaction Engg. Laboratory.		1,45,600/-	In-Progress
4	RPS-Effluent Treatment of dairy waste by Ultra filtration.		12,15,000/-	In-Progress
5	Industry – Institute Partnership Cell (IIPC).		6,76,000/-	In-Progress
6	MODROBS- Mechanical Operation Laboratory.		1,44,046/-	In-Progress
Total			37,22,646/-	

**18. Research Centre / Facilities recognized by the University :**

Sr.	Description	Recognized
1	The Research Centre Proposal submitted to Shivaji University, Kolhapur and is in Process.	Shivaji University, Kolhapur

Sr. No.	Description	Recognized University	References
1	Department P.G. research laboratory	Shivaji University, Kolhapur	Ref: TKIET/Affi /PG Lab/1758/2015

**19. Publications : Faculty Paper Publications**

Sr. No.	Name of the Faculty	Journals & Conferences Paper Publications				Total
		NJ	IJ	NC	IC	
1	Dr. S.V.Anekar	-	10	7	-	17

2	Prof. S.A.Desai	-	6	2	1	9
3	Prof. J.K.Shinde	-	1	1	-	2
4	Prof. N.H.Shinde	-	6	4	2	12
5	Prof. S.T.Patil	-	3	2	2	7
6	Prof. V.A.Bhosale	1	2	6	2	11
7	Prof. K.I.Patil	4	6	5	5	20
8	Prof. N.S.Patil	-	3	4	-	7
9	Prof. P.J.Patil	-	5	4	-	9
10	Prof. P.B.Dehankar	-	7	4	2	13
11	Prof. S.V.Kadoli	-	2	4	-	6
12	Prof. S.U.Patil	-	2	1	1	4
13	Prof. S.S.Patil	-	3	1	1	5
14	Prof. S.A.Patil	-	-	1	-	1
15	Prof. R.S.Kamble	-	-	-	-	-

NJ- National Journal

IJ – International Journal

NC- National Conference IC – International Conference

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs – **NIL**

Chapter in Book – **NIL**

Books Edited – **NIL**

Books with ISBN/ISSN numbers with details of publisher – **NIL**

Information for Citation Index, SNIP, SJR etc

Sr. No.	Name of the Faculty	Citation Index	SNIP	SJR	Range of Impact factor	h-index
1	Dr. S.V.Anekar	19	-	-	1.3-6.32	3
2	Prof. S.A.Desai	13	-	-	1.67-6.01	2
3	Prof. N.H.Shinde	2	-	-	1.3-3.2	1
4	Prof. P.J.Patil	25	-	-	1.2-3.2	3
5	Prof. P.B.Dehankar	2	-	-	0.889-6.01	1
6	Prof. S.V.Kadoli	6	-	-	1.8-3.4	1

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**20. Areas of consultancy and income generated :**

Sr. No.	Year	Description	Amount(Rs.)
1	2014-15	Online Centre for various Examinations(CWE,IBPS,IIT GATE 2013,LIC ,TCS)	9,17,348.00
2	2014-15	ProMax software Training Program	53,500.00
3	2010-11	Aspen Plus software Training Program	7,94,000.00
Total			17,64,848.00

**21. Faculty as members in :**

- (a) National Committees (b) International Committees  
(c) Editorial Boards

Sr. No.	Name of Staff	Membership in Professional Bodies	
		National	International
1	Dr. S.V.Anekar	ISTE LM 4344 , IMS 210	-
2	Prof. S.A.Desai	ISTE LM 3277	-
3	Prof. J.K.Shinde	ISTE LM 4342	-
4	Prof. N.H.Shinde	ISTE LM 4341	-
5	Prof. S.T.Patil	ISTE LM 3278	-
6	Prof. V. A. Bhosale	ISTE LM 20042	INNAR
7	Prof. K.I. Patil	ISTE LM 11580	-
8	Prof. N.S.Patil	ISTE LM 4346	-
9	Prof. P.J.Patil	ISTE LM 69980	-
10	Prof. P.B.Dehankar	ISTE LM 97668	-
11	Prof. S.V.Kadoli	ISTE LM 98627	-
12	Prof. S.U.Patil	ISTE LM 98624	-
13	Prof. S.S.Patil	ISTE LM 98753	-
14	Prof. S.A.Patil	ISTE LM 98735	-
15	Prof. R.S.Kamble	-	-

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## 22. Student Projects :

- Percentage of students who have done in-house projects including inter departmental.
- Percentage of students placed for projects in organizations outside the institution.

Courses	2014-15		2013-14		2012-13		2011-12		2010-11	
	I	O	I	O	I	O	I	O	I	O
UG	83 %	17%	84%	16 %	89 %	11 %	91 %	9 %	82%	18 %
PG	41%	59%	33%	67%	20%	80%	33%	67%	50%	50%

I - Inter Departmental O - Research Laboratories / Industry / Other Agencies

## 23. Awards/ Recognitions received by faculty and students :

### Faculty Awards/ Recognitions

- Dr. S.V. Anekar is representing Chairman of “Board of Studies”, Chemical Engineering, Shivaji University, Kolhapur.
- Prof.N.H.Shinde represented “Board of Studies”, Biotechnology and Engineering, Shivaji University, Kolhapur. He has also worked as member of “Board of Studies”, Chemical engineering Shivaji University, Kolhapur.
- Prof. J. K. Shinde, Prof S.T. Patil, Prof K.I.Patil worked as member of “Board of Studies”, Chemical Engineering Shivaji University, Kolhapur.
- Prof S.A. Desai worked as member of “Board of Studies” and 32/5 (A) committee member, Chemical Engineering Shivaji University, Kolhapur.
- Six of our department faculty are P.G recognized teacher.
- Prof. K.I. Patil received paper of theme award in “Heat transfer augmentation” in ‘National Conference on Emerging Trends in Engineering, Technology & Architecture’ organised by D.Y.Patil college of Engineering & Technology Kolhapur. He also received an award from Centre for Entrepreneurship development Madhya Pradesh for the article in Science tech Entrepreneur.
- Prof. J. K. Shinde received “Best Acting and Direction” (Silver Medal) award for the various Marathi Dramas presented by Institute at Maharashtra Rajya Natya Mohastava Organized by Cultural Ministry of Maharashtra State Government.
- Mr. Adam Mujawar received “Best Acting Prize” (Silver Medal) in above competition.
- Mr. K.B. Patil received the “Best Supporting Staff” award from SWVSM Warananagar.

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### Alumni Awards/ Recognitions

- Mr. Rajkumar Jain received national award for “Best Entrepreneur” at the hands of Hon. President of India.
- Dr. Vivek Buwa received “Teaching Excellence Award” working as Professor in Chemical Engineering Department at IIT New Delhi.
- Dr. Sanjay Kamble received “CSIR Young Scientist Award” from Shri Prithviraj Chavan, Minister of State.
- Mr. Ankush Ujawane was awarded as “Best Student” from ISTE New Delhi.
- Mr. Deepak Shinde, Miss Soroshi Hazarika, Miss Aditi More, Mr. Jignesh Patel were the “Gold Medallist” of Shivaji University , Kolhapur.
- Mr. Rushikesh Khare, Mr. Rohan Chandak were received Shivaji University Merit Scholarship.
- Nine students of department secured “Best Outgoing Student Award” from institute.

### Student Award and Recognition

#### Student Awards/ Recognitions 2014-15

Sr. No.	Name of Student	Awards/ Recognitions	Organizing Institute
1	Miss. Pooja Desai	Merit Scholarship	Shivaji University, Kolhapur
2	Mr. Manojkumar Devkar Mr. Rohan Dangare Mr. Gokul Kadam	1 <sup>st</sup> Prize in Project Competition	Gharada Institute of Technology, Lote Parshuram, Chiplun
3	Mr. Sujit Jadhav Mr. Rohan Dangare Mr. Manojkumar Devkar	1 <sup>st</sup> Prize in IDP Competition	Gharada Institute of Technology, Lote Parshuram, Chiplun
4	Mr. Sujit Jadhav Mr. Rohan Dangare Mr. Manojkumar Devkar	2 <sup>nd</sup> Prize in Paper Presentation	Gharada Institute of Technology, Lote Parshuram, Chiplun
5	Mr. Sujit Jadhav	1 <sup>st</sup> Prize in Model / Project Competition	Gharada Institute of Technology, Lote Parshuram, Chiplun

#### Student Awards/ Recognitions 2013-14

Sr. No.	Name of Student	Awards/ Recognitions	Organizing Institute
1	Miss. Pawar Vidyabal Miss Vahagaonkar Pradnya Miss Patil Sayali	2 <sup>nd</sup> Prize in Paper Presentation in PRAKALP 14 National level Students Conference	MIT AoE Pune 5 <sup>th</sup> to 6 <sup>th</sup> Sept. 2014
2	Mr. Devkar Manojkumar Mr. Dangare Rohan	2 <sup>nd</sup> Prize in National Level Technical Festival SHODH 2014	GIT, 22 <sup>nd</sup> to 23 <sup>rd</sup> March 2014

#### Student Awards/ Recognitions 2012-13

Sr. No.	Name of Student	Awards/ Recognitions	Organizing Institute
1	Mr. Shakir Shaikh Mr. Tushar Thite Mr. Rohit Tandulwadkar	Bagged 2 <sup>nd</sup> Prize in Industrial Defined Problem	Institute of Chemical Technology Mumbai
2	Mr. Vaibhav Salunkhe	Awarded with Vakrutva Bhushan Purskar	INOX International University
3	Mr. Vaibhav Salunkhe	Awarded with world social award	INOX International University
4	Mr. Gajanan Patange Mr. Soham Lolage Mr. Amit Solase	1 <sup>st</sup> Prize in Innovators choice Competition	Institute of Chemical Technology Mumbai
5	Mr. Soham Lolage	Scored at GRE Score – 309/340	-
6	Mr. Ankush Ujawane	ISTE Best Student Award	ISTE

#### 24. List of eminent academicians and scientists/ visitors to the department :

The few of the listed eminent academicians and scientists have visited to our department as mention below -

Sr. No	Name of the academicians / Scientists	Institution/ Industry	Purpose of Visit
1	Late Dr. A. P. J. Abdul Kalam	Ex. President, India	Celebration of Golden Jubilee function of Warana Complex

2	Dr. M. M. Sharma	Ex. Director UDCT Mumbai	Annual Social function
3	Dr. Arvind P. Kudchadker	Professor Emeritus, IIT Mumbai	Research guidance
4	Dr. P. Sathyamurthy	BARC, Mumbai	Research guidance
6	Dr. Anil Kakodkar	Chairman of Atomic Energy of India	Science Park & Department visit
7	Dr. Shivram Bhoje	Ex. Scientist BARC Mumbai	Research guidance
8	Dr. U. Shekhar	M.D. Galaxy Surfactant Mumbai	National Conference
9	Dr. S Mayadevi	NCL Pune	Research Work and Project
10	Dr. C. H. Bhosale	Shivaji University	Inauguration of ChESA
11	Dr. B. D. Kulkarni	NCL Pune	S.E. Chem-Syllabus Revision
12	Dr. C. V. Rode	NCL Pune	Expert Lecture- Research activities in Chemical Engg.
13	Dr. Sanjay P. Kamble	NCL Pune	S.E. Chem-Syllabus Revision
14	Dr. Sanjay Mahajani	IIT Bombay	Expert Lecture- Project conception and Valedictory function Promax workshop
15	Dr. Shashank G. Gaikwad	NCL Pune	BE Project Oral
16	Dr. Vivek Buwa	IIT- Delhi	Expert Lecture- Funding Scheme for Education
17	Dr. K. Srinivas	BITS Pilani GOA Campus	Expert lecture on –Venture in Chemical Engineering



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18	Dr. P.M. Mohite	IIT Kanpur, Aerospace Engg.Dept.	Expert Lecture to all faculty
19	Dr. D. S. Bhatkande	VIT, Pune	Expert Lecture
20	Dr. V.K. Rathod	ICT, Mumbai	M.E Project examination
21	Dr. Madhavi V. Sardeshpande	NCL, Pune	M.E Project guidance

And many more such eminent personalities have been visited to the department for the guidance and development.

**25. Seminars/Conferences/Workshops organized & the source of funding :**

Year	Seminars Conferences Workshops	N / I	Title	Date	Funding Agencies
2014	Workshop	N	Workshop on “Control System”	2 <sup>nd</sup> -12 <sup>th</sup> Dec	MHRD
2014	Workshop	S	Workshop on “ S.E. Syllabus revision”	24 <sup>th</sup> Feb	Shivaji University
2013	Workshop	S	Unisim- Software for design and simulation	9 <sup>th</sup> -10 <sup>th</sup> Aug	Self
2012	Workshop	S	Workshop on “ M.E. Syllabus revision”	30 <sup>th</sup> -31 <sup>th</sup> Aug	Shivaji University
2012	Workshop	N	Matlab–Scilab Application in Chemical Engineering	8 <sup>th</sup> -12 <sup>th</sup> May	Self
2011	Workshop	N	Application Of Process Simulator in Process Industries	20 <sup>th</sup> -22 <sup>th</sup> Feb	Self
2010	Workshop	N	Application of ASPEN Plus in Chemical Engineering	5 <sup>th</sup> - 6 <sup>th</sup> March	Self
2010	Workshop	N	Regional workshop on “Intellectual Property Rights Studies”	30 <sup>th</sup> July- 1 <sup>st</sup> Aug	Shivaji University

N – National

I – International

S – Self

**26. Student profile programme / course wise:**

Name of the Course/Programme	Academic Year	Applications Received	Selected	Enrolled		Graduate Pass %
				M	F	
<b>U.G Chemical Engineering</b>	2014-15	NA*	55	46	9	90
	2013-14		58	51	7	87.50
	2012-13		61	52	9	92.00
	2011-12		61	53	8	96.77
	2010-11		51	42	9	94.32
<b>P.G Chemical Engineering</b>	2014-15		8	3	5	62.50
	2013-14		17	13	4	35.29
	2012-13		14	9	5	43.00
	2011-12		8	5	3	25.00
	2010-11		10	7	3	30.00

M – Male F – Female

\* Not Applicable, since Admission Process is centralised through DTE, Government of Maharashtra

**27. Diversity of Students :**

Name of the Course	Academic Year	Year	% of Maharashtra State Students	% of other State Students	% of Students from Abroad
Chemical Engineering	2014-15	I	98.19	1.81	-
		II	98.31	1.69	-
		III	100	-	-
		IV	98.75	1.25	-
	2013-14	I	98.19	1.81	-
		II	98.31	1.69	-
		III	100	-	-
		IV	98.75	1.25	-
	2012-13	I	100	-	-
		II	100	-	-
		III	98.64	1.36	-
		IV	100	-	-

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	2011-12	I	100	-	-
		II	100	-	-
		III	100	-	-
		IV	96.83	3.17	-
	2010-11	I	100	-	-
		II	98.6	1.4	-
		III	96.88	3.12	-
		IV	98.64	1.36	-

**28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil services, Defence services, etc?**

Name of the Competitive Examinations	2014-15	2013-14	2012-13	2011-12	2010-11	Total
NET/SET	-	-	-	-	-	-
GATE	-	3	2	3	2	10
MBA	2	1	1	1	1	6
Civil services	-	-	-	-	1	1
Defence services	-	-	-	-	-	-

**29. Student Progression:**

Student Progression		Against % enrolled
UG to PG		15-20%
PG to M. Phil.		NA
PG to Ph.D.		2-3%
Ph.D. –Post .Doc		0.5-1%
Employed	On Campus	25-30%
	Off Campus	30-40%
Entrepreneurship/ Self-Employment		2-6%

### 30. Details of Infrastructural facilities :

#### a) Library Infrastructural Facilities

Sr. No.	Description	Area (in m <sup>2</sup> )
1	<b>Total Area of the library (in Sq. mts.)</b>	<b>1139.20</b>
	Stack Section	431.00
	Reference and P. G. Section	79.83
	Technical Journals Section	46.50
	Book Bank Section	16.00
	Processing Section	33.68
	Digital Library	48.44
	Reading Hall (Separate for Boys and Girls)	349.91
	Staff Section	25.00
	Bound Volumes Section	44.95
	Newspapers Section	63.89
2	<b>Total Seating capacity</b>	<b>300 seats</b>

#### b) Central Library

Sr. No.	Descriptions	Quantity in Numbers	
1	Books for students circulation	Titles	3073
		Volumes	7889
		No. of Bound Volume	563
		Xerox Books	378
2	Department Library for Reference	Titles	108
		Volumes	50
3	Technical Journals	National	9
		International	1
		e-Journals	85
4	Technical Magazines Subscribed	1	
5	NPTEL Videos	95	
6	News Papers	14	

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7	Educational CDs (CBTs)	640
8	LCD	-
9	OHP	-
10	Illustrative Charts/Models	-

c) Internet facilities for Staff & Students

Sr. No.	Descriptions	Quantity in Numbers
1	Computers	50
2	Computer with Internet Facilities	50
3	Bandwidth	50 Mbps
4	Network Facilities for all Computers	50
5	Printers	2
6	Scanner	2
7	Web Camera	2

d) Class rooms with ICT facility

Sr. No.	Descriptions	Number of Rooms
1	Class room with Black Board	3
2	Class room with Projectors	2
3	Class room with OHP	2
4	Class room with Internet Facilities	2
5	Class room with ICT Facilities	3

e) Laboratories for UG and PG:

Sr. No.	Name of the Laboratory	Students Capacity / Batch	Laboratory Space	Major Equipment
1	Chemistry	18-25	220 sq.m	UV Spectrophotometer, Colorimeter, Potentiometer, pH meter.

2	Fluid Mechanics	18-25	220 sq.m	Fluid Flow Measuring Equipment, Packed Bed , Fluidized Bed, Centrifugal and reciprocating pump rig, Brook field viscometer.
3	Mechanical Operation	18-25	110 sq.m	Size Reduction Equipment, Gas-Solid separation unit, Solid – solid Separation unit, Screening equipment.
4	Computer Lab I	18-25	80 sq.m	Virtual Lab, Advanced Computing Facility, Software's.
5	Heat Transfer	18-25	110 sq.m	Plate type Heat Exchanger, fin tube heat exchanger, packed bed, Double pipe, shell and tube heat exchanger.
6	Instrumental methods of analysis	18-25	110 sq.m	Colorimeter, Refractometer, Conductometer, Thermocouple Calibration.
7	Mass Transfer	18-25	110 sq.m	Distillation Column, Extractor, All Types of Dryers, Diffusivity Measurement Expt., Liquid Hold-up Study.
8	Process Dynamic Control	18-25	110 sq.m	DCS Control system (Flow, Level, Pressure & Temp Controller) Transient Response of 2 <sup>nd</sup> order.
9	Chemical equipment design	18-25	55 sq.m	Chemical equipment Models (Display), drawing hall.
10	Chemical Reaction Engineering	18-25	110 sq.m	RTD in PFR,MFR ,CSTR, Straight tube Reactor, Arrhenius Experiments.
11	Chemical Process & Green Technology	18-25	110 sq.m	Heating mantle, Heating plate, Leaf filter, Dryer, Oven.
12	Advanced Separation Process	18-25	110 sq.m	Ultra filtration, Electro coagulation, Resin separation.
13	Computer Lab-II	12	33 sq.m	Equipped with 12 terminals and Wi-Fi facility.

14	P.G. Research Laboratory	12-18	66 sq.m	UV Spectrophotometer, Water analysis kit. Muffle Furnace, Distillation kit.
15	Industrial Pollution Control Lab	18-25	66 sq.m	COD kit, BOD kit, pH meters, Water analysis kit, Turbidity meter.
16	Chemical dept. Store	NA	110 sq.m	Chemicals, Equipment and Glassware's.

**31. Number of students receiving financial assistance from college, university, government or other agencies :**

Received Financial Assistance		2014-15	2013-14	2012-13	2011-12	2010-11	Total
Government	SC/ST	23	27	23	23	13	109
	OBC	35	38	47	48	48	216
	SBC	8	8	11	10	8	45
	VJNT	37	35	33	23	17	145
	STC	-	-	1	3	5	9
	EBC	76	76	77	60	55	344
	PTC	2	1	1	-	2	6
	Minorities	1	2	-	2	3	8
College*	Staff ward	2	2	-	-	-	4

\* College- Teaching staff ward 15% of tuitions fees and 20% of tuition fees for non-teaching staff

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :**

Academic Year	Special Lectures / Workshops / Seminar	Title	Date	External Experts
2014-15	Workshop	Virtual Lab Nodal Centre	10 <sup>th</sup> March	Dr. Sanjay Mahajani
2014-15	Special Lecture	Safety Act and manpower handling	18 <sup>th</sup> Aug	Mr. R. R. Gaikwad

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2014-15	Special Lecture	Various Research field in Chemical Engineering	23 <sup>th</sup> Aug	Dr. C. V. Rode
2014-15	Special Lecture	Extreme Challenges in Chemical Engineering	24 <sup>th</sup> Aug	Mr. Rafik Inamadar
2014-15	Workshop	ProMax Foundation Course- Level-I	2 <sup>nd</sup> -4 <sup>th</sup> March	Mr.Umesh Goel USPTM, Delhi
2013-14	Workshop	Unisim – Software for Design and simulation	9 <sup>th</sup> & 10 <sup>th</sup> Aug	Mr. Sandip Gundap
2012-13	Workshop	Unisim – Software for Design and simulation	12 <sup>th</sup> Aug	Mr.Prasad Kadolikar
2011-12	Workshop	Matlab – Scilab Application in Chemical Engineering	8 <sup>th</sup> -12 <sup>th</sup> May	Mrs.Seema Diwan
2010-11	Workshop	Application Of Process Simulator in Process Industries	20 <sup>th</sup> -22 <sup>th</sup> Feb	Dr. R. K. Malik
2010-11	Workshop	Application of ASPEN Plus in Chemical Engineering	5 <sup>th</sup> - 6 <sup>th</sup> March	Mr. Sunil Patil

### 33. Teaching methods adopted to improve student learning :

They are,

- Power Point Presentations.
- Industrial visits are arranged for the students in order to update theoretical and practical knowledge in the field of Chemical Engineering.
- Assignments are given to the students periodically to develop their skills in solving the problems in analytical subjects.
- Project competition has been conducted for our third and final year students to enrich their technical knowledge in the practical application.
- In addition to this, following facilities are used to enhance students learning.



Sr. No	Facility Name	Details	Reasons for Creating Facility	Area in which students are expected to have enhanced learning
1	Virtual Lab	Demonstration of Experiments virtually	1.To enhance understanding of students 2.To enhance numerical solving abilities of students	1.Fluid Mechanics 2.Heat Transfer 3.Mass Transfer
2	Software's	Aspen plus, ProMax software, Unisim design etc.	1.To enhance creativity in students. 2.To upgrade the students to satisfy needs of chemical industries	1.Computer Lab –I 2.Modelling and simulation in Chemical Engg. 3.Computer techniques in Chemical Engg.
3	Models	Scale models are used in the laboratories for specific practical's	1.To understand the actual mechanical designs and parts of industrial equipment	1.Chemical engineering design
4	E-Learning	Online Journals, NPTEL Videos	1.Advance method of learning for practical's 2.Useful for research/projects	1.All subjects
5	Moodle facility	LAN based for all students in campus itself.	1.To give assignments, quizzes, viva questions, model answers, question bank to students 2.To give study material of all subjects	1.University Practical, Theory Examination 2.All subjects

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### **34. Participation in Institutional Social Responsibility (ISR) and Extension activities :**

- Warana Children's Orchestra.
- Donation to Chitanya Matimand Mulanchi Shala, Warananagar.
- New direction of Engineering and employment opportunities- Public awareness camp at Kolhapur.
- NSS camp.
- Blood Donation Camp.
- Passport Camp.

### **35. SWOC analysis of the department and Future plans :**

#### **Strengths:**

- The department has qualified and experienced faculty.
- Well equipped and spacious laboratory Infrastructure.
- Consistency in securing university ranks by students.
- Strong Industry Institute Interaction.
- Good liaison with reputed national research organizations.
- Active ChESA Students Association.
- Centre of excellence in ASPEN PLUS and ProMax Software.
- Major contribution in University curriculum development.
- Strong alumni linkage.

#### **Weaknesses:**

- Location disadvantage for getting adequate consultancy.
- R & D Interactions.

#### **Opportunities:**

- To promote consultancy and resource generations.
- To establish a research centre.
- Companies like IOCL, ONGC, BPCL, GAIL and HPCL are recruiting fresh chemical engineering graduates as GET which attracts many students.
- To get research funded projects from AICTE , DST, etc

- 
- To start market driven training programs.

**Challenges:**

- To make 100% students employable.
- To improve the performance of students in competitive examination.
- To create resources for internal revenue generation in the department.
- To enhance Soft skills of students.

**Future Plans:**

In order to enhance the teaching and research activities in the department, the proposals under consideration are,

- To establish research centre for Ph.D Programme.
- To get more collaborative research projects with nationally reputed organizations like NCL Pune, DRDO Pune and BARC Mumbai etc.
- To conduct continuing education programmes for technical staff of chemical and allied industries.

**Department  
of  
Civil Engineering**

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## Evaluative Report of the Department

1. **Name of the Department** : Civil Engineering
2. **Year of Establishment** : 1983-84
3. **Names of Programmes / Courses offered** :

Sr. No.	Engineering / Technology			Year of Started
1	UG	BE	Civil Engineering	1983-84
2	PG	ME	Civil-(Construction and Management)	2011-12

4. **Names of Interdisciplinary courses and the departments / units / subjects involved**

Sr.No	Subjects	Semester	Department Involved
1	Engineering Maths III	III	Applied Sciences

5. **Annual / semester / choice based credit system (programme wise) :**

Sr.No.	Engineering/ Technology		Annual/ Semester Credit System
1	UG	BE	Semester System
2	PG	ME	Semester System

6. **Participation of the department in the courses offered by other departments :**

Sr.No.	Subjects	Semester/ Courses	Department
1	Applied Mechanics	I and II	First Year Engineering (All Programs)
2	Basic Civil Engineering	I and II	First Year Engineering (All Programs)

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

Department of Civil Engineering has been conducted various software training programs in collaboration with different industries which had a core team of faculty members and number of students participated in that program.

Sr.No	Courses offered	Industries/ University
1	Microsoft project	I Global solutions, Pune
2	Microsoft project	CAAD Centre, Pune
3	Soft skill	FACE Academy, Pune.
4	Soft skill	Rank skill, Pune.
5	Soft skill	Shivaji University, Kolhapur.
6	Environmental Studies	IIT, Bombay
7	Pedagogy ICT Worksop,	IIT, Bombay
8	Fluid Mechanics	IIT, Kharagpur.
9	Step 2 Research	IIT, Bombay
10	Engineering Mechanics	IIT, Kharagpur

**8. Details of courses/programmes discontinued (if any) with reasons:**

NIL

**9. Number of Teaching posts :**

Cadre Wise Teaching Faculty	2014-15	
	S	F
Professor	4	02
Associate Professor	8	02
Assistant Professor	28	36

S – Sanctioned

F – Filled

**10. Faculty profile with name, qualification, designation, specialization : AY 2014-15**

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience			No. of Ph.D. Students guided for the last 4 years
					Industry	Teaching	Teaching	
1	Prof.B.V. Birajdar	Ph.D (Registered) ME Civil (CM)	Professor	Construction and Management	-	28	28	-

2	Prof. L.B Patkure	Ph.D (Registered) ME Structures	Professor	Structures	-	27	27	-
3	Prof. M.B. Kulkarni	M.Sc.(Geology)	Associate Professor	Geology	-	30	30	-
4	Prof.B.R.Bagane	M. E.Env.Engg	Associate Professor	Env. Engg	-	25	25	-
5	Prof. G.N. Kanade	ME Civil (CM)	Assistant Professor	Construction Management	13	20	33	-
6	Prof. J.S.Patil	Ph.D (Registered) M. E. Env. Engg.	Assistant Professor	Env. Engg	-	16	16	-
7	Prof. R.V.Kajave	Ph.D (Registered) M. Tech. Env. Engg	Assistant Professor	Env. Engg	6	7	13	-
8	Prof. V.J.Yadav	ME Structures	Assistant Professor	Structures	0	5	5	-
9	Prof. S.B.Kumbhar	M.Tech Transportation	Assistant Professor	Transport	-	5	5	-
10	Prof. R.B.Patil	Ph.D (Registered) M.Tech Env. Engg	Assistant Professor	Env. Engg	2	5	7	-
11	Prof. S.B.Patil	Ph.D (Registered) ME Structures	Assistant Professor	Structures	5	5	10	-
12	Prof. I.A.Mursal	MTech. Structures	Assistant Professor	Structures	2	6	8	-
13	Prof.A.R. Chougule	ME Structures	Assistant Professor	Structures	-	7	7	-
14	Prof. A.S.Kharade	M.Tech Structures	Assistant Professor	Structures	0	3	3	-
15	Prof. R.H.Sule	M.Tech Structures	Assistant Professor	Structures	-	2	2	-
16	Prof. S.S.Chavan	ME Civil (CM)	Assistant Professor	Construction Management	2	5	6	-

17	Prof. D.S.Chavan	MTech Civil (GT)	Assistant Professor	Geotechnical Engineering		3	3	-
18	Prof.A.V.Hankare	ME Civil (CM)	Assistant Professor	Construction Management	1	2	3	-
19	Prof. V.A.Mulani	M.Tech. Structures	Assistant Professor	Structures	0	2	2	-
20	Prof. A.N.Patil	M.Tech. Structures	Assistant Professor	Structures	0	1	1	-
21	Prof. J.B.Sangale	ME Civil (CM)	Assistant Professor	Construction Management	0	4	4	-
22	Prof. P.J.Kotulkar	ME Civil (CM)	Assistant Professor	Construction Management	0	1	1	-
23	Prof. J.A.Patil	ME Civil (CM)	Assistant Professor	Construction Management	0	1	1	-
24	Prof. A.B.Patil	ME Civil (CM)	Assistant Professor	Construction Management	0	2	2	-
25	Prof. T.S.Sawant	ME Civil (CM)	Assistant Professor	Construction Management	0	1	1	-
26	Prof. P.B.Kolekar	ME Civil (CM)	Assistant Professor	Construction Management	-	3	3	-
27	Prof.C.S.Gaikwad	ME Civil (CM)	Assistant Professor	Construction Management	-	4	4	-
28	Prof.S.M.Kineyekar	M Tech (Structures)	Assistant Professor	Structures	0	4	4	-
29	Prof. T.K.Shikalgar	M Tech (Structures)	Assistant Professor	Structures	0	1	1	-
30	Prof. V.M. Sanade	ME Civil (CM)	Assistant Professor	Construction Management	0	2	2	-
31	Prof. V.M. Shete	BE Civil	Assistant Professor	-	12	3	15	-
32	Prof. K.K. Patil	BE Civil	Assistant Professor	-	0.5	4	4.5	-
33	Prof. M.P.Joshi	PG Dip. (UK)	Assistant Professor	Environment	-	1	1	-
34	Prof. M.K.Atwad	BE Civil	Assistant Professor	-	0	2	2	-
35	Prof D.B.Salunkhe	BE Civil	Assistant Professor	-	0	1	1	-
36	Prof.S.S. Jamadagni	BE Civil	Assistant Professor	-	2	0	2	-



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37	Prof. R.S.Gavade	BE Civil	Assistant Professor	-	0	1	1	-
38	Prof. V.D. Ardekar	BE Civil	Assistant Professor	-	0	1	1	-
39	Prof. N.D.Gaikwad	BE Civil	Assistant Professor	-	0	2	2	-
40	Prof. R.A. Thorat	BE Civil	Assistant Professor	-	0	2	2	-

**11. List of senior visiting faculty :**

NIL

**12. Percentage of lectures delivered and practical classes handled by temporary faculty :**

NIL

**13. Student –Teacher Ratio :**

UG - B.E – Civil Engineering

Sr.No	Academic Year	Sanctioned Intake	Faculty Strength	Student –Teacher Ratio
1	2014-15	540	36	15:1

PG - M.E – Construction and Management

Sr.No	Academic Year	Sanctioned Intake	Faculty Strength	Student –Teacher Ratio
1	2014-15	36	03	12:1

**14. Number of academic support staff (technical) and administrative staff :**

Description	2014-15	
	S	F
Technical Support Staff	-	6
Administrative Staff	-	1

S – Sanctioned

F – Filled

**15. Qualifications of teaching faculty with DSc / D.Litt / Ph.D / M.Phil / PG :**

Qualification	Total
DSc	-
D.Litt	-
Ph.D	-
Ph.D (Registered)	6
PG	34

**16. Number of faculty with ongoing projects from National / International funding agencies and grants received :**

Sr.No.	Faculty	Title of the Project	Name of the Funding Agencies	Grants received Rs..-	Status
1	Prof. V.J.Yadav	Seismic qualification of sugar factories in western Maharashtra	AICTE, New Delhi.	18,90,000	In-Progress

**17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received :**

Sr.No.	Title of the Project	Name of the Funding Agencies	Grants received Rs..-	Status
1	Seismic qualification of sugar factories in western Maharashtra	AICTE, New Delhi	18,90,000/-	In Progress
2	Study and Behaviour of FRC(Loading Frame)under RPS		5,00,000/-	Completed

N – National I – International

**18. Research Centre/ Facilities recognized by the University :**

Sr.No	Description	Recognized University	References
1	P.G. Research lab	Shivaji University	Ref:SUK /.Affi /T2 /UG-PG/VTD/2475 Dt.14.6.2013

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## 19. Publications : Faculty

### a) Paper Publications

Sr.No	Name of the Faculty	Publications				Total
		NJ	IJ	NC	IC	
1	Prof.B.V.Birajdar	1	-	2	-	3
2	Prof.L.B.Patkure	-	-	-	1	1
3	Prof.M.B.Kulkarni	1	-	-	-	1
4	Prof.G.N.Kanade	3	-	-	2	5
5	Prof.J.S.Patil	-	-	3	-	3
6	Prof. R.V.Kajave	1	1	9	1	12
7	Prof. V.J.Yadav	-	-	4	-	4
8	Prof.S.B.Kumbhar	-	-	1	-	1
9	Prof.R.B.Patil	-	-	4	1	5
10	Prof.S.B.Patil	-	-	3	1	4
11	Prof. I.A.Mursal	-	-	1	-	1
12	Prof.A.R.Chougule	-	2	2	-	4
13	Prof. A.S.Kharade	2	13	2	-	17
14	Prof. S.S.Chavan	-	-	1	-	1
15	Prof. A.V.Hankare	1	-	-	-	1
16	Prof. J.B.Sangale	1	-	-	-	1
17	Prof. A.B.Patil	-	-	1	-	1
18	Prof. T.S.Sawant	-	1	1	-	2
19	Prof. C.S.Gaikwad	1	-	-	-	1
20	Prof.V.M.Shete	1	-	-	-	1

NJ- National Journal

IJ – International Journal

NC- National Conference IC – International Conference

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

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Chapter in Book – NIL

Books Edited – NIL

Books with ISBN.ISSN numbers with details of publisher – NIL

**Details information for Citation Index, SNIP, SJR etc**

Sr. No.	Name of the Faculty	Citation Index	SNIP	SJR	Range of Impact Factor	h-index
1	Prof.A.S.Kharade	6	-	-	-	2

**20. Areas of consultancy and income generated :**

Sr.No	Year	Title	Income (Rs.)
1	2014-2015	Material testing (cube testing ,steel testing) and consultancy(concrete mix and RCC Design)	19,800/-
		Supervision and RCC Design of Museum and Planetarium building for SWVSM costing Rs-1,18,18,579(@ 3%)	3,54,557/-
		Planning,Desiging and Supervision of Girls hostel extension for SWVSM costing Rs-17,53,000(@ 5%)	87,650/-
		Planning,Desiging and Supervision of Seminar hall(2 No.) for TKIET costing Rs-70,02,461(@ 5%)	3,50,123/-
		Supervision and RCC Design of Library building for TKIET costing Rs-1,32,85,222 (@ 3%)	3,98,557/-
		Supervision of Indoor Auditorium building for YCWM costing Rs-2,15,00,000 (@ 2%)	4,30,000/-
		Planning, Designing and Supervision of Jaggery Plant for TKIET costing Rs-2,23,939 (@ 5%)	11,197/-
2	2013-2014	Material testing (cube testing ,steel testing) and consultancy(concrete mix and RCC Design)	22,800/-

		Planning, Designing and Supervision of Road work for SWVSM costing Rs-14,23,884(@ 5%)	71,194/-
3	2012-2013	Material testing (cube testing ,steel testing) and consultancy(concrete mix and RCC Design)	20,850/-
		Supervision and RCC Design of Cafeteria building for SWVSM costing Rs-53,76,381 (@ 3%)	1,61,291/-
4	2011-2012	Material testing (cube testing ,steel testing) and consultancy(concrete mix and RCC Design)	92,150/-

## 21. Faculty as members in

### a) National Committees

Sr.No	Name of Staff	Membership in Professional Bodies
1	Prof. B.V.Birajdar	ISTE (LM)
2	Prof. L.B .Patkure	ISTE (LM)
3	Prof. M.B.Kulkarni	ISTE (LM)
4	Prof. B.R.Bagane	ISTE (LM)
5	Prof. G.N.Kanade	ISTE (LM)
6	Prof. J.S.Patil	ISTE (LM)
7	Prof. R.V.Kajave	ISTE (LM)
8	Prof. V.J.Yadav	ISTE (LM)
9	Prof. S.B.Kumbhar	ISTE (LM)
10	Prof. R.B.Patil	ISTE (LM)
11	Prof. S.B.Patil	ISTE (LM), IAPMO
12	Prof. I.A.Mursal	ISTE (LM)
13	Prof. A.R.Chougule	ISTE (LM)
14	Prof. A.S.Kharade	ISTE (LM)
15	Prof. S.S.Chavan	ISTE (LM)
16	Prof. A.V.Hankare	ISTE (LM)
17	Prof. J.B.Sangale	ISTE (LM)
18	Prof. A.B.Patil	ISTE (LM)

19	Prof. T.S.Sawant	ISTE (LM)
20	Prof. P.B.Kolekar	ISTE (LM)
21	Prof. C.S. Gaikwad	ISTE (LM)
22	Prof. V.M.Shete	ISTE (LM), MIE,CE
23	Prof. K.K.Patil	ISTE (LM)
24	Prof. M.P.Joshi	ISTE (LM)

b) **International Committees:** - NIL

c) **Editorial Boards:-** Prof. A.S.Kharade- Reviewer  
IJERSS(International Journal of Engineering Research and  
sport science)

## 22. Student projects

- Percentage of students who have done in-house projects including inter departmental (I).
- Percentage of students placed for projects in organizations outside the institution (O).

Courses	2010-11		2011-12		2012-13		2013-14		2014-15	
	I	O	I	O	I	O	I	O	I	O
UG	75 %	25 %	80 %	20 %	83 %	17 %	75 %	25 %	65 %	35 %
PG	-	-	-	-	Nil	100 %	20%	80%	10 %	90 %

I - Inter Departmental O - Research Laboratories/ Industry / Other Agencies

## 23. Awards / Recognitions received by faculty and students

Description	Awards / Recognitions Received in	2014-15		2013-14		2012-13		2011-12		Total	
		A	R	A	R	A	R	A	R	A	R
Faculty	Curricular	1	-	1	-	1	-	-	-	3	-
	Co-Curricular	-	-	-	-	-	-	-	-	-	-
Students	Curricular	1	2	1	1	1	-	-	1	3	4
	Co-Curricular	-	37	-	29	-	06	-	7	-	79

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**A) Faculty Award**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of faculty</b>	<b>Recognitions</b>
1	2014-15	Prof. J.S.Patil	National Award for Best B.Tech Project (ISTE)
2	2013-14	Prof. R.V.Kajave	National Award for Best B.Tech Project (ISTE)
3	2012-13	Prof. S.B.Kumbhar	National Award for Best B.Tech Project (ISTE)

**B) Student Award**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of Student</b>	<b>Award</b>
1	2014-15	Chinmay Sawant	NIT Kozhikode National Award for Best B.Tech Project (ISTE)
2	2014-15	Akshay Patil	NIT Kozhikode National Award for Best B.Tech Project (ISTE)
3	2014-15	Abhijit Redekar	NIT Kozhikode National Award for Best B.Tech Project (ISTE)
4	2014-15	Joseph George	NIT Kozhikode National Award for Best B.Tech Project (ISTE)
5	2014-15	Mahesh Kharade	NIT Kozhikode National Award for Best B.Tech Project (ISTE)
6	2014-15	Suhas Salunkhe	Radhamadhav Prize and Late S.R. Nageshkar memorial gold medal award (ISTE)
7	2013-14	Amol Golatkar	Best B Tech. Project Award (ISTE)
8	2013-14	Bharat Bhuimbar	Best B Tech. Project Award (ISTE)
9	2013-14	Shalivan Bhosale	Best B Tech. Project Award (ISTE)
10	2013-14	Harish Laddha	Best B Tech. Project Award (ISTE)

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11	2013-14	Harish Laddha	Best B Tech. Project Award (ISTE)
12	2012-13	Suhas Patil	‘NIT Kozhikode National Award’, by ISTE

**C) University Rankers :**

Sr. No	Name of Student	Year	Rank
1	Mr.Suhas Khanderao Salunkhe	2014	I
2	Miss.Sayali Agatrao Bone		IV
3	Miss. Ashwini Mohan Nale	2013	IV
4	Mr.Niranjan Watave	2011	VII
5	Mr.Yashwant A.Gaonkar	2010	V
6	Mr.Babloo Kumar		VII

**D) Paper presentation, Model competitions Winners :**

- Mr. Sutar Pramod and Mr.Satpute Vishal (TE Civil) secured winners place in National Level Technical Symposium AAKAR 2K14 Beam in the NIRMANICA on 11<sup>th</sup> & 12<sup>th</sup> Oct. 2014 held at Walchand College of Engg., Sangli.
- Mr. Lendave Akash and Mr.Kawale Pravin (TE Civil) secured runners up place in National Level Technical Symposium AAKAR 2K14 Beam in the NIRMANICA on 11<sup>th</sup> & 12<sup>th</sup> Oct. 2014 held at Walchand College of Engg.Sangli.
- Mr. Kale Surajand and Mr.Kulkarni Parikshit (TE Civil) secured third place in National Level Technical Symposium AAKAR 2K14 Beam in the NIRMANICA on 11<sup>th</sup> & 12<sup>th</sup> Oct. 2014 held at Walchand College of Engg.Sangli.
- Mr. Landge Avdhut and Mr.Mali Sagar (TE Civil) secured second place in National Level Technical Symposium AAKAR 2K14 in Spot Model Making on 11<sup>th</sup> & 12<sup>th</sup> Oct. 2014 held at Walchand College of Engg.Sangli.
- Mr.Mali Sagar Mr. Patil Rohan and Mr.Olekar Tejas (TE Civil) secured runners up place in National Level Technical Symposium AAKAR 2K14 Bridge in the NIRMANICA on 11<sup>th</sup> & 12<sup>th</sup> Oct. 2014 held at Walchand College of Engg.Sangli.



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- Mr.Pawar Ganesh and Mr.Landge Avdhut (TE Civil) secured first place in National Level Technical Symposium AAKAR 2K14 AUTOCAD on 11<sup>th</sup> & 12<sup>th</sup> Oct. 2014 held at Walchand College of Engg., Sangli.
  - Mr.Olekar Tejas and Mr.Kulkarni Parikshit (TE Civil) secured second place in State Level Event GENETECH 2K14 on 14<sup>th</sup> Sep. 2014 held at held at Genesis Institute, Kasarwadi
  - Mr.Lamb Siddharaj and Mr.Patil Rohan (TE Civil) secured third place in National Level Technical Symposium DISCOVERY 2K14 in event PRAKALP on 20<sup>th</sup> Sep. 2014 held at held at Annasaheb Dange College of Engg., Ashta
  - Mr. Sutar Pramod and Mr. Kawale Praveen (TE Civil) secured first place in VAASTU on 19<sup>th</sup> & 20<sup>th</sup> Sep. 2014 held at RIT Sakharale.
  - Mr. Methe Amol and Mr. Salaskar Vinayak (TE Civil) secured third place in VAASTU on 19<sup>th</sup> & 20<sup>th</sup> Sep. 2014 held at RIT Sakharale.
  - Mr. Avdhut Landage, Mr. Ganesh Patel (TE Civil) secured first prize in Stambha Group event held at “Kaushalya 2K14” on 14<sup>th</sup> & 15<sup>th</sup> Feb. 2014 at Sanjay Bhokare Group of Insitutes, Miraj.
  - Mr. Avdhut Landage, Mr. Tushar Pol (TE Civil) achieved first prize in Bridge Modelling in “Techno Byte 2K14” State Level Technical Event held on 8<sup>th</sup> March 2014 at Nanasaheb Mahadik College of Engineering, Peth.
  - Mr. Vinay Ghunake, Mr. Dattaprasad Patil (TE Civil) secured prize in “Model Making” at KIT, College of Engineering, Kolhapur.
  - Mr. Chinmay Sawant, Mr. Akshay Patil, Mr. Abhijit Redekar, Mr. Joseph George, Mr. Mahesh Kharade (B.E. Civil) secured first prize in the Lead College Project Competition at Sanjeevan Engg. & Tech. Institute, Panhala.
  - Mr. Chinmay Sawant, Mr. Akshay Patil, Mr. Abhijit Redekar, Mr. Joseph George, Mr. Mahesh Kharade (B.E. Civil) secured second prize in Project Competition during “Jidnyasa 2K14”at T.K.I.E.T., Warananagar 22<sup>nd</sup> March 2014.
  - Ms. Sneha B. Kamble (T.E. Civil) secured first prize in “CONTROFEST Eureka 2K13” National Level Paper Presentation at TKIET, Warananagar.
  - Mr. Harish Laddha (B.E. Civil) secured first prize in “Lead College Project Competition” at DKTE, Ichalkaranji, on 4<sup>th</sup> April 2013.
  - Mr. Harish Laddha (B.E. Civil) secured first prize in Project Competition held at Gharada Institute of Technology, Khed in “Spring 2K13”, on 7<sup>th</sup> April 2013.

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- Mr. Harish Laddha & Mr. Amol Golatkar (B.E. Civil) secured second prize in Paper Presentation held at Govt. College of Engg. Karad, in “Incano 2K13”, on 22<sup>nd</sup> March 2013.
  - Mr. Harish Laddha & Mr. Shalivahan Bhosale (B.E. Civil) secured first prize held at Ashokrao Mane Group of Institutions, Wathar in “Relex 2K13”.
  - Mr. Harish Laddha & Mr. Amol Golatkar (B.E. Civil) secured first prize and Best Paper Award held at Sanjeevan Engg. & Tech. Institute, Panhala, in “PARIKRAMAA 2K13”, on 9<sup>th</sup> March 2013.
  - Mr. Harish Laddha, Mr. Amol Golatkar, Mr. Bharat Bhumbhar, Shalivahan Bhosale and Ms. Dhana, Prof. Asabe (B.E. Civil) secured second prize in Project Presentation at T.K.I.E.T., in “Jidnyasa 2K13” on 5<sup>th</sup> April 2013.
  - Mr. Suhas Salunkhe, Mr. Rohit Phadtare, Mr. Chinmay Sawant, Mr. Vishal Suryawanshi (T.E. Civil) secured first prize in Industrial Problem Solver at T.K.I.E.T., Warananagar in “Jidnyasa 2K13” on 5<sup>th</sup> April 2013.
  - Ms. Bhagya, Prof. Patil, Mr. Aniket Ugare, Mr. Rohit Shinde (T.E. Civil) secured second prize in Industrial Problem Solver at T.K.I.E.T., Warananagar in “Jidnyasa 2K13” on 5<sup>th</sup> April 2013.
  - Ms. Sneha Kamble (T.E. Civil) secured third prize in Industrial Problem Solver at T.K.I.E.T., Warananagar in “Jidnyasa 2K13” on 5<sup>th</sup> April 2013.
  - Mr. Akshay Bhangage (B.E. Civil) secured second prize in Paper Presentation at RIT, Sakharale in event “VASTU”.
  - Mr. Sangram Thombare, Mr. Abhijit Visapure, Mr. Amol Patil (B.E. Civil) secured third prize in “Concrete Shodown” held at Govt. College of Engineering, Karad, in “Incrano 2K13” on 22<sup>nd</sup> March 2013.
  - Mr. Aditya Khade (SE Civil) secured third prize in Paper Presentation held at Govt. College of Engineering, Karad, in “Incrano 2K13” on 22<sup>nd</sup> March 2013.
  - Mr. Aditya Khade (SE Civil) secured second prize in “Idea Presentation” at RIT, Sakharale.
  - Mr. Aditya Khade (SE Civil) secured third prize at JJM College of Engineering, Jaysingpur, in “Education Competition”
  - Ms. Priti Shiral, Ms. Kamble Amruta, Ms. Snehal Repal (T.E. Civil) achieved winners place at ‘Caementa’ National Level Technical Event under AAKAR’12, held at Walchand College of Engineering Sangli, on 6<sup>th</sup> and 7<sup>th</sup> Oct., 2012

- Mr. Vishal Suryavanshi, Mr. Dipak Mirajkar, Mr. Devanand Amzare won first rank in the technical event ‘Samarthya’ under ‘VAASTU’ held at RIT, Rajaramnagar, Sakhrle on 15<sup>th</sup> Sept 2012.
- Ms. Neelima B Kore, 1st, State Level – VAASTU in event SWAYAM SIDDHA 26<sup>th</sup> & 27<sup>th</sup> Feb 2011, RIT, Sakhrle.

#### E) Co-Curricular Achievements

Sr.No	Name of Student	Achievement
<b>(2011-2012)</b>		
1	Rupesh Dabholkar	1 <sup>st</sup> Eureka
2	Prashant Patil	1 <sup>st</sup> Reflex , 2 <sup>nd</sup> in Mock
3	Umesh Gurav	2 <sup>nd</sup> National level Competition
4	Aniket Sawant	3 <sup>rd</sup> in Eureka
5	Sachin Nalawade	1 <sup>st</sup> Eureka
6	Jitendra Narale	2 <sup>nd</sup> Jidnyasa
<b>(2012-2013)</b>		
7	Bhagyesh Pawar	1 <sup>st</sup> Built Smart PVPIT
8	Ashwini Nale	1 <sup>st</sup> Built Smart PVPIT
9	Shivraj Shahapurkar	1 <sup>st</sup> PPT ,PVPIT, Budhgaon
10	Harish Laddha	1 <sup>st</sup> Lead College Competition ,DKTE
11	Bharat Bhuimber	1 <sup>st</sup> Lead College Competition ,DKTE
12	Amol Golatkar	1 <sup>st</sup> Lead College Competition ,DKTE
13	Shalivahan Bhosale	1 <sup>st</sup> Lead College Competition ,DKTE
<b>(2013-2014)</b>		
14	Chinmay Sawant	1 <sup>st</sup> Lead College Competition
15	Akshay Patil	1 <sup>st</sup> Profest 2K14
16	Joseph George	1 <sup>st</sup> Profest 2K14
17	Ganesh patel	1 <sup>st</sup> Kaushalya SBGI ,Miraj
18	Avdhut Landge	1 <sup>st</sup> Kaushalya SBGI ,Miraj
19	Vinay Ghunane	1 <sup>st</sup> Breakdown KIT ,Kolhapur
20	Akshay Bhanage	1 <sup>st</sup> Aakar RIT

<b>(2014-2015)</b>		
21	Rohan Patil	1 <sup>st</sup> Indian Biggest
22	Sagar Mali	1 <sup>st</sup> Indian Biggest
23	Aditya Khade	1 <sup>st</sup> JJM Jaysingpur
24	Pravin Patil	1 <sup>st</sup> Indian Biggest ,DACOE,Karad
25	Karishma Mestri	1 <sup>st</sup> National Event PPT ,KBP,Satara
26	Tejas Olekar	1 <sup>st</sup> National Event PVPIT,Budhgoan
27	Rahul Kharade	1 <sup>st</sup> Technical Event PPT KBP ,Satara
28	Parikshit Kulkarni	2 <sup>nd</sup> State Technical Event ,Wathar
29	Madhavi Bhosale	1 <sup>st</sup> National Level Tech Built Budhgaon
30	Sharayu Joshi	1 <sup>st</sup> National Tech.Symposium, Karad
31	Aniket Mane	1 <sup>st</sup> Nationali Tech Nirmiti
32	Shivani Tambade	1 <sup>st</sup> National Tech Event Symposium
33	Sonali Mane	2 <sup>nd</sup> Lead College Activity

**24. List of eminent academicians and scientists / visitors to the department**

<b>Sr. No</b>	<b>Academic Year</b>	<b>Name of the Academicians / Scientists</b>	<b>Institution / Industry</b>	<b>Purpose of Visit</b>
1	2014-15	Dr. Jayant Naralikar	Scientist	Construction of science park
2		Mr.Ujwal Nikam	Indian Public Prosecutor	Annual Social Function
3		Dr.Pramod Bhalerao	Chairman EUREKA INDIA	Inauguration of Students Asso.
4		Mr.Arun Patil	Director, Nirman construction Kolhapur.	Expert lecture on Entrepreneurship
5	2013-14	Dr. Bhimraya Metri	Dean Academics and Alumni Relations, IMI, Delhi	Guest Lecture
6		Dr.V.M.Topakar	V.J.T.I, Mumbai	Guest Lecture
7		Dr.S.S.Pimpalikar	MIT, Pune	Guest Lecture

**25. Seminars / Conferences / Workshops organized & the source of funding**

<b>Year</b>	<b>Seminars Conferences Workshops</b>	<b>N/I</b>	<b>Title</b>	<b>Date</b>	<b>Funding Agencies</b>
2014	Workshop	N	Fluid Mechanics	20-05-2014 to 30-05-2014	MHRD- IIT Kharagpur.
2014	Workshop	N	Step 2 Research	19-09-2014	MHRD- IIT Mumbai
2013	Workshop	N	Engineering Mechanics	26-11-2013 to 06-12-2013	MHRD- IIT Kharagpur
2013	Workshop	N	Recent advancements in environmental friendly construction	01-01-2013	Self
2013	Workshop	N	Open source software	26-10-2013	Self
2013	Workshop	N	ISTE Workshop on Engineering mechanics	16-09-2013	Self
2012	Workshop	N	Best construction practices for Unskilled Labours	08-11-2012	Self
2012	Workshop	N	Effective Teaching Methodology,	03-09-2012 to 10-11-2012	MHRD- Akash
2011	Workshop	N	Geoinformatics	05-03-2015 to 07-03-2011	Self
2010	Workshop	N	Total Station	21.8.2010 to 23.8.2010	Self

N – National

I – International

S – Self

## 26. Student profile programme/course wise:

Name of the Course/ Programme	Academic Year	Applications received	Selected			Enrolled						Pass Percent- age
			1st Shift	2nd Shift	DSE	*M			*F			
						1st Shift	2nd Shift	DSE	1st Shift	2nd Shift	DSE	
BE Civil Engineering	2014-15	**NA	61	57	58	46	49	53	15	8	5	91.66
	2013-14		62	54	60	50	47	50	12	7	10	86.84
	2012-13		58	57	49	48	57	41	10	0	8	92.00
	2011-12		60	17		49	17		11	0		90.00
	2010-11		59			49			10			88.00
ME Civil (Construction and Management)	2014-15		18			16			02			Appear
	2013-14		18			13			05			16.66%
	2012-13		18			13			05			50%
	2011-12		12			11			01			66.66%

\* M – Male      \*F – Female

**\*\*NA-Not Applicable Since Admission Process is centralised through DTE, Government of Maharashtra.**

## 27. Diversity of Students

Name of the Course	Academic Year	Year	% of Maharashtra State Students	% of other State Students	% of Students from Abroad
Civil Engineering	2014-15	II	100	-	-
		III	99.50	0.49	-
		IV	99.35	0.64	-
	2013-14	II	99.54	0.45	-
		III	99.34	0.65	-
		IV	100	-	-
	2012-13	II	99.47	0.52	-
		III	100	-	-
		IV	98.24	1.75	-
	2011-12	II	100	-	-
		III	96.55	3.45	-
		IV	98.43	1.57	-

**28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil services, Defence services, etc?**

Sr.No	Examination	No. of Students	Year
1	GATE	06	2014-15
2	Civil Services	10	-
3	GRE	1	-

**29. Student Progression**

Student progression		Against % Enrolled
UG to PG		27.27 (39/143)
PG to M.Phil		---
PG to Ph.D		---
Ph.D. to Post-Doctoral		---
Employed	Campus selection	16(12.60%)
	Other than campus recruitment	102 (80.30%)
Entrepreneurship/Self-employment		9 (7.10%)

**30. Details of Infrastructural facilities :**

**a) Central Library**

Sr.No.	Descriptions	Quantity in Numbers	
1	Books for students circulation	Titles	3471
		Volumes	10662
2	Department Library for Reference	Titles	234
		Volumes	318
3	Technical Journals	National	6
		International	1
		e-Journals	As below
4	Technical Magazines Subscribed	4	
5	News Papers	14	
6	Educational CDs (CBTs)	2029	

- **e-journals – E-journals Packages-**  
✓ IEEE (ASPP)

- ✓ ASCE (35)
- ✓ Springer (2)
- ✓ Science Direct (2)
- ✓ j-Gate
- ✓ McGrawHill Access Engg.
- ✓ ASTM DL

**b) Central library sections (Area)**

Sr. No.	Description	Areas in m <sup>2</sup>
<b>1</b>	<b>Total Area of the library (in Sq. mts.)</b>	<b>1139.20</b>
	Stack Section	431.00
	Reference & P. G. Section	79.83
	Technical Journals Section	46.50
	Book Bank Section	16.00
	Processing Section	33.68
	Digital Library	48.44
	Reading Hall (Separate for Boys and Girls)	349.91
	Staff Section	25.00
	Bound Volumes Section	44.95
	Newspapers Section	63.89
	<b>Total Seating Capacity</b>	<b>300 Seats</b>

**c) Internet facilities for Staff & Students**

Sr. No.	Descriptions	Quantity in Numbers
1	Computers	98
2	Computer with Internet Facilities	98
3	Bandwidth	50 MBPS
4	Network Facilities for all Computers	YES ( 98 No.s)
5	Printers	2
6	Scanner	1
7	Plotter	1
8	LCD Projector	4
9	External DVD	1



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**d) Class rooms with ICT facility**

<b>Sr. No</b>	<b>Descriptions</b>	<b>Number of Rooms</b>
1	Class room with White Board	6
2	Class room with Projectors	6
3	Class room with Internet Facilities	6
4	Class room with ICT Facilities	6

**e) Laboratories for UG and PG:**

<b>Sr.No.</b>	<b>Name of the Laboratory For UG Course</b>	<b>Carpet Area in SQ.M</b>
1	Material Testing Laboratory	200
2	Engineering Geology Laboratory	85.69
3	Geotechnical Engineering Laboratory	100.10
4	Concrete Technology Laboratory	207.59
5	Transportation Engineering Laboratory	100.00
6	Surveying Laboratory	67.60
7	Mechanics And Kinetics Laboratory	86.50
8	Fluid Mechanics Laboratory	100.00
9	Computer Centre 1 ( Shared For PG)	83.90
10	Computer Centre 2 For UG	83.90
11	Environmental Engineering Laboratory	66.00
12	Research Laboratory	66.00

**31. Number of students receiving financial assistance from college, university, government or other agencies**

<b>Sr No.</b>	<b>Category</b>	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>	<b>2011-12</b>
1	SC	88	46	41	36	18
2	ST	1	-	-	-	-
3	VJNT	90	70	55	39	20

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4	SBC	9	17	12	13	6
5	OBC	117	91	76	86	41
6	MANAGEMENT	09	34	32	09	09

**32. Details on student enrichment programmes (special lectures/  
workshops / seminar) with external experts**

<b>Academic Year</b>	<b>Special Lectures / Workshops / Seminar</b>	<b>Title</b>	<b>Date</b>	<b>External Experts</b>
2014-15	Lectures	Present construction industry scenario	26 <sup>th</sup> July 2014.	Mr.S.D.Patil,Cluster Head, L & T construction,Mumbai
2014-15	Lectures	Personality development & Communication skill	17th July 2014	Mrs Preeti patil , HR Manager, B& M Infra Pvt. Ltd.,Pune
2014-15	Lectures	Value Education	11th August 2014	Mr.Shivaji Nerli
2014-15	Lectures	Project Management	22 <sup>nd</sup> Sep.2014	Mr.Arunkumar Joshi
2014-15	Workshop	Rain Water Harvesting	20th Aug.2014	Mr.Sandeep Aadhyapak
2014-15	Workshop	Microsoft Project – MSP	26th August 2014	iGLOBAL SOLUTIONS, PUNE
2013-14	Lectures	Scope of Technical Education	29th July, 2013	Dr. Bhimraya Mhetri
2013-14	Lectures	Microsoft Project – MSP	31st July, 2013	IGLOBAL SOLUTIONS, PUNE
2013-14	Lectures	The Opportunities in Government Services	24th August, 2013.	Mr. D D Shinde (AEE -I) WRE Dept

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2013-14	Lectures	Best construction practices	21st Jan 2014	Mr Hemant Jain , Regional Manager, Ultratech Cement
2013-14	Lectures	Competitive exam GATE-14		Digvijay Powar
2013-14	Lectures	Competitive exam GATE-14		Mandar Deshpande

### 33. Teaching methods adopted to improve student learning :

They are,

- Power Point Presentations
- Field training and industrial visits are arranged for the students in order to update theoretical and practical knowledge in the field of Civil Engineering
- Assignments are given to the students periodically to develop their skills in solving the problems in analytical subjects.
- Project competition has been conducted for our third and final year students to enrich their technical knowledge in the practical application.
- In addition to this, following facilities are used to enhance student's learning

Sr. No	Facility Name	Details	Reasons for Creating Facility	Area in which students are expected to have enhanced learning
1	<b>Virtual Lab</b>	Demonstration of Experiments virtually	1. For better understanding of concepts through animation at any time at any place	1. Structural Mechanics, 2. Fluid Mechanics 3. Geotechnical Engineering 4. Concrete Technology 5. Surveying
2	<b>Software</b>	ETAB, STAAD Pro, SAP 2000, MS Project, Primavera, Build Master etc.	1. Structural software for analysis 2. Managements software for planning	1. Structural Engineering 2. Management, 3. Earthquake Engineering 4. Dynamics

3	<b>Charts and Models</b>	Charts & scale models are used in the laboratories for specific practicals	1. Easy demonstration with 3D model 2. Highlights specific practical applications	1. Water Resource Engineering 2. Building Constructions 3. Geotechnical Engineering 4. Geology 5. Fluid Mechanics
4	<b>E-Learning</b>	Online Journals, NPTEL Videos	1. Advance method of learning for practicals 2. Useful for research/projects	
5	<b>Moodle facility</b>	LAN based for all students in campus it self	1. To give assignments, viva questions, model answers, question bank to students 2. To give study material of all subjects	University Practical, Theory Examination All subjects

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities :**

Sr.No	Nature of Service	Year
1	E-waste Collection in Campus	2014-15
2	No Vehicle Day	
3	Women's Day Celebration	
4	Passport Registration Campaign	
5	Swacha Bharat Abhiyan	
6	Donation to Draught suffering people	2013-14
7	Felicitation of Academic Achievers in Surrounding schools and colleges	

**35. SWOC analysis of the department and Future plans**

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**Strengths:**

- Experienced, motivated faculty with excellent coordination.
- Laboratories with advanced equipment.
- Computing facility with advanced software.
- Strong Alumni network.
- Active Student Association.
- Excellent academic results with consistent university ranks.
- Liaison with industry.

**Weaknesses:**

- Faculty deficiency at higher cadre.
- Inadequate Research and Development.

**Opportunities:**

- Government policies for prioritising infrastructure development.
- Potential of testing and consultancy.
- Growing trend to opt civil engineering as profession.

**Challenges:**

- Scarcity of highly qualified faculty.
- Effect of industrial recession on admission.

**Future Plans:**

- Enhancing career guidance activities like placement, competitive exams.
- To start post graduate courses in the stream of Structures and Environmental engineering
- To establish linkages with industry.
- Enhance industry problem oriented projects and inculcate research and development culture.

**Department  
of  
Electronics Engineering**

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## Evaluative Report of the Department

1. **Name of the Department:** Electronics Engineering

2. **Year of Establishment:** 1983-84

3. **Names of Programmes/ Courses offered:**

Sr. No.	Engineering / Technology			Year of Started
1	UG	BE	Electronics Engineering	1983-84
2	PG	ME	Electronics Engineering	1989-90 (Vacational) 2010 ( Regular)

4. **Names of Interdisciplinary courses and the departments/ units / subjects involved**

Sr.No	Subjects	Semester	Department Involved
1	Engineering Mathematics III	III	Basic Sciences and Humanities (Mathematics)

5. **Annual / semester/choice based credit system (programme wise) :**

Sr.No.	Engineering / Technology		Annual / Semester Credit System
1	UG	BE	Semester System
2	PG	ME	Semester System

6. **Participation of the department in the courses offered by other departments :**

Sr. No.	Subjects	Semester/ Courses	Department
1	Electrical Technology	III	Mechanical Engineering
2	Fundamentals of Electronics and Computers.	I/II	First Year Engineering (All Programs)

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

Sr. No	Courses offered	Industry/University
1	Embedded System	Core Technology, Kolhapur

**8. Details of courses/ programmes discontinued (if any) with reasons:**

**NIL**

**9. Number of Teaching posts :**

Cadre Wise Teaching Faculty	2014-15	
	S	F
Professor	2	3
Associate Professor	5	2
Assistant Professor	14	17

S – Sanctioned

F – Filled

**10. Faculty profile with name, qualification, designation, specialization : 2014-15**

Sr. No	Name	Qualification	Designation	Specialization	No. of Years of Experience			No. of Ph.D. Students guided for the last 4 years
					Industry	Teaching	Total	
1	Prof.D.G. Chougule	M.E, Ph.D*	Professor	Electronics	-	29	29	NIL
2	Prof.R.T. Patil	M.E, Ph.D*	Professor	Electronics	-	30	30	NIL
3	Prof. S.S. Patil	M.E, MBA	Professor	Electronics	-	28	28	NIL
4	Dr. B.T. Salokhe	M.E, Ph.D	Associate Professor	Electronics	-	25	25	NIL
5	Prof. C.P Shinde	M.E	Associate Professor	Electronics	-	25	25	NIL



6	Prof. B.G. Warvante	M.E, Ph.D*	Asst. Prof.	Electronics	-	15	15	NIL
7	Prof. A.A. Thorat	M.E	Asst. Prof.	Electronics	-	18	18	NIL
8	Prof. A.S.Mali	M.E	Asst. Prof.	E&TC	-	17	17	NIL
9	Prof. S.D. Bhopale	M.E, Ph.D*	Asst. Prof.	E&TC	-	8	8	NIL
10	Prof. S.H. More	M.E, Ph.D*	Asst. Prof.	Digital Systems	-	12	12	NIL
11	Prof. P.V. Lokhande	M.E	Asst. Prof.	Power Electronics	-	5	5	NIL
12	Prof. Harsha C.J	M.Tech	Asst. Prof.	DEC	-	5	5	NIL
13	Prof. R.R. Naik	M.Tech,	Asst. Prof.	Electronics	-	4	4	NIL
14	Prof. Sharan Kumar	M.Tech Ph.D*	Asst. Prof.	VLSI Design & Embedded Systems.	-	4	4	NIL
15	Prof. G.S Waichal	M.E	Asst. Prof.	Signal Processing	-	1	1	NIL
16	Prof. V.S. Doijad	M.E	Asst. Prof.	Electronics	-	3	3	NIL
17	Prof. Arun Kumar	M.Tech	Asst. Prof.	CNE	-	4	4	NIL
18	Prof. T.A. Khankal	B.E.	Asst. Prof	Electrical Engg	-	3.5	3.5	NIL
19	Prof. S.R.Londhe	B.E.	Asst. Prof	Electronics	-	1	1	NIL
20	Prof. S.G. Gadekar	B.E.	Asst. Prof	Electronics	-	1	1	NIL
21.	Prof. U.R. Patil	B.E.	Asst. Prof	E & TC	-	1	1	NIL
22	Prof. Ashwini Parit	B.E.	Asst. Prof	Electronics	-	1	1	NIL

Ph.D\* - Ph.D Registered

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**11. List of senior visiting faculty :**

**NIL**

**12. Percentage of lectures delivered and practical classes handled by temporary faculty :**

**NIL**

**13. Student –Teacher Ratio :**

UG - B.E – Electronics Engineering

Sr.No	Academic Year	Student Strength	Faculty Strength	Student –Teacher Ratio
1	2014-15	206	18	12:1

PG - M.E – Electronics Engineering

Sr.No	Academic Year	Student Strength	Faculty Strength	Student –Teacher Ratio
1	2014-15	36	3	12:1

**14. Number of academic support staff (technical) and administrative staff :**

Description	2014-15	
	S	F
Technical Support Staff	NA	5
Administrative Staff	NA	1

S – Sanctioned

F – Filled

**15. Qualifications of teaching faculty with DSc / D.Litt / Ph.D / M.Phil / PG :**

Qualification	Total
DSc	--
D.Litt	--
Ph.D	1
Ph.D (Registered)	6
PG	10

**16. Number of faculty with ongoing projects from National / International funding agencies and grants received :**

Sr. No.	Faculty	Title of the Project	Name of the Funding Agencies	Grants received Rs./-	Status
1	Dr.B.T.Salokhe	Modelling & Simulation of wideband microstrip antenna for Mobile communication	AICTE, New Delhi under Research Promotion Scheme (RPS)	Rs. 8 Lakhs	Received

**17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. And total grants received :**

Sr.No.	Title	Name of the Funding Agencies	Grants received Rs.-	Status
1	Modelling & Simulation of wideband microstrip antenna for Mobile communication	AICTE, New Delhi (Under Research Promotion Scheme (RPS))	8 Lakhs	Received
2	Computer control and automation of Power Electronic laboratory (PLC and AC/DC Drive)	AICTE, New Delhi (Sponsored Project (MODROB))	5 Lakhs	Received
3	Modernisation of Power Electronics Laboratory	AICTE, New Delhi (Sponsored Project (MODROB))	3 Lakhs	Received
4	Design and development of variable low frequency power supply for three phase induction motor	Board of Research in Nuclear Sciences (BRNS) and conducted by reactor	7 Lakhs	Received

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**18. Research Centre Facilities recognized by the University :**

Sr.No	Description	Recognized University	References
1	Electronics PG-Research Lab	Shivaji University, Kolhapur	Affi/T-2/ VTD/ Vidyaparishad Sub. No. 307/Dt.15-05-2014/3444

**19. Publications : Faculty**

## e) Paper Publications

Sr.No	Name of the Faculty	Publications				Total
		NJ	IJ	NC	IC	
1	Prof. D.G.Chougule	2	6	2	-	10
2	Prof. R. T. Patil	4	6	-	2	12
3	Prof. S.S. Patil	1	5	3	1	10
4	Dr.B.T. Salokhe	2	5	4	2	13
5	Prof. C.P. Shinde	1	4	2	2	9
6	Prof. B.G. Warvante	1	5	-	2	8
7	Prof. A.A. Thorat	1	2	-	-	3
8	Prof. A.S. Mali	2	7	1	1	11
9	Prof. S.D. Bhopale	1	4	1	1	7
10	Prof. S. H. More	-	-	3	-	3
11	Prof. P.V. Lokhande	2	6	1	1	10
12	Prof. Harsha C. J	2	5	1	1	9
13	Prof. Sharan Kumar	-	6	1	2	9

NJ- National Journal

IJ – International Journal

NC- National Conference IC – International Conference

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs – **NIL**Chapter in Book – **NIL**Books Edited - **NIL**Books with ISBN/ISSN numbers with details of publisher – **NIL**

Information for Citation Index, SNIP, SJR etc

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**20. Areas of consultancy and income generated :**

Sr. No	Year	Title	Income
1	2014-15	Online Centre for various Examinations (CWE, IBPS,IIT GATE 2013,LIC ,TCS)	9,17,348.00

**21. Faculty as members in**

a) National Committees

b) International Committees

Sr.No	Name of Staff	Membership in Professional Bodies	
		National	International
1	Prof. D.G.Chougule	ISTE(Life Member)	-----
2	Prof. R. T. Patil	ISTE(Life Member)	-----
3	Prof. S.S. Patil	ISTE(Life Member)	-----
4	Dr.B.T. Salokhe	ISTE(Life Member)	-----
5	Prof. C.P. Shinde	ISTE(Life Member)	-----
6	Prof. B.G. Warvante	ISTE(Life Member)	-----
7	Prof. A.A. Thorat	ISTE(Life Member)	-----
8	Prof. A.S. Mali	ISTE(Life Member)	-----
9	Prof. S.D. Bhopale	ISTE(Life Member)	IAENG, MISRD
10	Prof. S. H. More	ISTE(Life Member)	-----
11	Prof. P.V. Lokhande	ISTE(Life Member)	-----
12	Prof. Harsha C. J	ISTE(Life Member)	-----
13	Prof. Sharan Kumar	ISTE(Life Member)	IAENG, MISRD

**c ) Editorial Boards: -**

Name of Faculty	Name of Journal
Prof.S.D.Bhopale	Editor, Journal of Telecommunication, Switching Systems and Networks.

**22. Student projects**

- c. Percentage of students who have done in-house projects including inter departmental.
- d. Percentage of students placed for projects in organizations outside the institution.

Courses	2010-11		2011-12		2012-13		2013-14		2014-15	
	I	O	I	O	I	O	I	O	I	O
UG	96.2%	3.8	100%	--	100%	--	93%	7%	96%	4%
PG	100%	--	100%	--	100%	--	100%	--	100%	--

I – In Department

O - Research Laboratories/ Industry / Other Agencies

### 23. Awards/Recognitions received by faculty and students

#### A) Faculty Award

Sr. No.	Name of faculty	Awards/Recognitions
1	Prof. D. G. Chougule	Worked as member of “Board of Studies”, Electronics Engineering, Shivaji University, Kolhapur
2	Prof. R. T. Patil	Working as member of “Board of Studies”, Electronics Engineering, Shivaji University, Kolhapur and also worked as Chairman of “Board of Studies”, Electronics & Telecommunication Engineering, Shivaji University, Kolhapur
3	Dr. B. T. Salokhe	Worked as member of “Board of Studies”, Electronics Engineering, Shivaji University, Kolhapur
4	Prof. S. H. More	ISTE National level Best Project Award B.Tech 2014
5	Prof. P. V. Lokhande	Third prize at National Conference BVCOE, Kolhapur 2013

#### B) Student Award

Sr. No.	Year	Name of Student	Award
1	-	Mr.Jitesh Shetty	Bill Gates Microsoft Excellence Award
2	2014	1) Omkar Shinde 2) Ramesh Masal 3) Dipesh Shinde	ISTE National Level Best Project Award B.Tech 2014
3	2014	1) Amol Shrivastav 2) Sujansingh Shinde 3) Vaibhav Shete	1 <sup>st</sup> Prize in Lead College Project Competition

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**C) University Rankers:**

Sr. No	Name of Student	Year	Rank
1	Sushant Kumar	2010	6 <sup>th</sup>
2	Vaibhav Ramdasi	2009	1 <sup>st</sup>
3	Ms.Prajakta Patil	2009	7 <sup>th</sup>
4	Ms.Priyanka Pednekar	2009	9 <sup>th</sup>
5	Amruntansh Gudivada	2009	10 <sup>th</sup>
6	Sandesh Mane	2008	4 <sup>th</sup>
7	Nilesh Patil	2007	10 <sup>th</sup>
8	Ms.Vidya Newage	2005	9 <sup>th</sup>
9	Ms.Smita Ramlinge	2003	6 <sup>th</sup>
10	Sanjit Gupta	2001	2 <sup>nd</sup>
11	Mukund Kulkarni	2000	4 <sup>th</sup>
12	Saurav Mitra	1999	1 <sup>st</sup>
13	Ms.Mona Meheta	1998	4 <sup>th</sup>
14	Nitanta Mane	1992	6 <sup>th</sup>
15	Pradeep Singh Dhanda	1991	2 <sup>nd</sup>
16	Anurag K Malhotra	1990	2 <sup>nd</sup>
17	Bariana Rajendra Singh	1990	5 <sup>th</sup>
18	Ms.Anupama D Chougule	1989	2 <sup>nd</sup>
19	K.M.Patil	1988	5 <sup>th</sup>
20	J.J.Gurjarpadhye	1988	4 <sup>th</sup>

**D) Paper presentation /Model competitions Winners:**

Sr.No.	Name of Students	Event & venue	Date	Remark
1	Ramesh Masal	Project compitation, PROEXHDB-2014,Kolhapur	23 <sup>rd</sup> Feb 2014	3 <sup>rd</sup> Prize
2	Dipesh Shinde	Project compitation, PROEXHDB-2014,Kolhapur	23 <sup>rd</sup> Feb 2014	3 <sup>rd</sup> Prize
3	Omkar Shinde	Project compitation, PROEXHDB-2014,Kolhapur	23 <sup>rd</sup> Feb 2014	3 <sup>rd</sup> Prize

4	Sujanshing Shinde	Paper presentation Shivaji University, kolhapur	14 <sup>th</sup> & 15 <sup>th</sup> Feb 2014	3 <sup>rd</sup> Prize
5	Amol Shrivastav	Paper presentation Shivaji University, kolhapur	14 <sup>th</sup> & 15 <sup>th</sup> Feb 2014	3 <sup>rd</sup> Prize
6	Vaibhav Shete	Paper presentation Shivaji University, kolhapur	14 <sup>th</sup> & 15 <sup>th</sup> Feb 2014	3 <sup>rd</sup> Prize
7	Sayali Desai	Campus2Corporate 2013	-----	All India Rank-38
8	Sayali Desai	PPT electronics, Nirmity 2K14,PVPIT.	20 <sup>th</sup> & 21 <sup>st</sup> –Feb 2014	3 <sup>rd</sup> Prize
9	Manasi Takale	EUREKA-2K13, Warananagar	21 <sup>st</sup> Sept 13	2 <sup>nd</sup> Prize
10	Rutuja Shewale	Quest 2K13, KBP Satara	7 <sup>th</sup> Mar 13	1 <sup>st</sup> Prize
11	Anil Yedage	Quest 2K13, KBP Satara	7 <sup>th</sup> Mar 2013	1 <sup>st</sup> Prize
12	Rutuja Shewale	NCETET 2K 13,BVCOE KOP	15 <sup>th</sup> Feb 2013	1 <sup>st</sup> Prize
13	Anil Yedage	NCETET 2K 13,BVCOE KOP	15 <sup>th</sup> Feb 2013	1 <sup>st</sup> Prize
14	Aniket Parmar	Tech Symposim 2K13,DKTE,Ichalkaranji	16 <sup>th</sup> Mar 2013	2 <sup>nd</sup> Prize
15	Ms.Lince Paulose	Nirmity 2K13,PVPIT, Budhgaon	20 <sup>th</sup> & 21 <sup>st</sup> Feb 2013	1 <sup>st</sup> Prize
16	Ms.Sayali Barapte	Nirmity 2K13,PVPIT, Budhgaon	20 <sup>th</sup> & 21 <sup>st</sup> Feb 2013	1 <sup>st</sup> Prize
17	Akash Kamble	Reflex 2K13,AMGOI, Vathar	15 <sup>th</sup> Mar 2013	3 <sup>rd</sup> Prize
18	Ravi Sanglikar	Reflex 2K13,AMGOI, Vathar	15 <sup>th</sup> Mar 2013	3 <sup>rd</sup> Prize
19	Aswini Jambhale	Jidnayasa TKIET, Warananagar	6 <sup>th</sup> April 2013	3 <sup>rd</sup> Prize



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20	Amrita Sonavane	Jidnayasa TKIET, Warananagar	6 <sup>th</sup> April 2013	3 <sup>rd</sup> Prize
21	Kirti Kanade	Jidnayasa TKIET, Warananagar	6 <sup>th</sup> April 2013	3 <sup>rd</sup> Prize
22	Nilam Kumbhar	Jidnayasa TKIET, Warananagar	6 <sup>th</sup> April 2013	3 <sup>rd</sup> Prize

**24. List of eminent academicians and scientists / visitors to the department**

Sr. No	Name of the Academicians / Scientists	Institution/Industry	Purpose of Visit
1	Late Dr. A. P. J. Abdul Kalam	Ex. President , India	Celebration of Golden Jubilee function of Warana Complex
2	Dr. M. M. Sharma	Ex. Director UDCT Mumbai	Annual Social function
3	Dr. Anil Kakodkar	Chairman of Atomic Energy of India	Science Park & Department visit
4	Dr. Shivram Bhoje	Ex. Scientist BARC Mumbai	Research guidance
5	Mr.AmarJadhav	Hancock Opex Ltd Pune	EESA Inaugural Function
6	Shri. Rajesh Nair	Director, Board of New Hampshire High Tech Council	Interaction With Students
7	Mr.Sandesh Mane	ISRO Hyderabad	Careers in Space research
8	Prof. Dr. S N Talbar	Prof. Dept of E&TC, SGGS Nanded	Research in DSP
9	Prof. Dr. D B Talange	Prof, Dept of Electrical Engg. COEP, Pune	Need of research in Digital communication
10	Prof. Dr. A A Patil	Malegaon Collage of Engg., Baramati	Opportunities in research area Advance digital signal processing
11	Prof. Dr. D. D. Shaha,	GH Raisonni COE, Pune	Discussion with students on VLSI research

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12	Prof. Dr. V. Y. Dev	PICT. Pune.	Recent research in mobile communication
13	<b>Prof.Dr. Jayadevappa</b>	<b>HOD, Instrumentation Tech. Dept. JSSATE, Bangalore</b>	<b>Need of Research in Medical Images processing</b>

**25. Seminars/ Conferences/ Workshops organized & the source of funding**

Year	Seminars/ Conferences Workshops	N/I	Title	Date	Funding Agencies
2014	Workshop	N	Two Week STTP-ISTE Workshop on Signals & Systems	20 <sup>th</sup> May to 30 <sup>th</sup> May	MHRD & NMEICT
2013	Workshop	N	Two Week STTP-ISTE Workshop on Analog Electronics	4 <sup>th</sup> June to 14 <sup>th</sup> June	MHRD & NMEICT
2012	Workshop	N	Two Week STTP-ISTE Workshop on Research Methodology	25 <sup>th</sup> June to 4 <sup>th</sup> July	MHRD & NMEICT
2013	Workshop	N	Two Week STTP-ISTE Workshop on Aakash Android Application workshop for students	23 <sup>rd</sup> Feb to 3 <sup>rd</sup> March	MHRD & NMEICT
2013	Workshop	N	Two Week STTP-ISTE Workshop on Data Base Management System	21 <sup>st</sup> May to 31 <sup>st</sup> May	MHRD & NMEICT
2015	Workshop	S	Advance Embedded Systems” by Core Technologies, Kolhapur	14 <sup>th</sup> August	Self
2011	Workshop	S	Training Program on PLC and SCADA by Prolific Systems Pvt. Ltd. Pune.	5 <sup>th</sup> Feb to 8 <sup>th</sup> Feb	Self

N – National

I – International

S – Self

## 26. Student profile programme / course wise:

Name of the Course/ Program	Academic Year	Applications Received	Selected	Enrolled		Graduate Pass %
				M	F	
(UG) BE- Electronics Engineering	2010-11	NA*	58	32	26	89.23
	2011-12		54	33	21	93.54
	2012-13		61	35	26	92.59
	2013-14		51	22	29	94.04
	2014-15		31	20	11	68.83
(PG) ME- Electronics Engineering	2010-11	NA*	18	13	5	16.67 %
	2011-12		18	8	10	22.22 %
	2012-13		18	12	6	11.11 %
	2013-14		18	8	10	11.11%
	2014-15		18	8	10	38.88%

M-Male

F- Female

\*Admission to first year and direct second year is given by DTE through centralised admission process (CAP).

## 27. Diversity of Students

Name of the Course	Academic Year	Year	% of Maharashtra State Students	% of other State Students
Electronics Engineering	2010-11	I	100 %	-
		II	100 %	-
		III	100 %	-
		IV	100 %	-
	2011-12	I	100 %	-
		II	100 %	-
		III	100 %	-
		IV	100 %	-
	2012-13	I	100 %	-
		II	100 %	-
		III	100 %	-
		IV	100 %	-

	2013-14	I	100 %	-
		II	100 %	-
		III	100 %	-
		IV	100 %	-
	2014-15	I	100 %	-
		II	100 %	-
		III	100 %	-
		IV	100 %	-

**28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil services, Defence services, etc?**

Sr.No	Examination	No. of Students
1	GATE	11
2	Civil Services	4
3	GRE/TOEFL	13

**29. Student Progression**

Student Progression		Against % Enrolled
UG to PG		15-20%
PG to M.Phil.		NA
PG to Ph.D.		2 -5%
Ph.D. to Post-Doctoral		--
Employed	Campus selection	34%
	Other than campus recruitment	40-50%
Entrepreneurship/Self-employment		2-10%

**30. Details of Infrastructural facilities :**

a) Central Library

Sr. No.	Descriptions	Quantity in Numbers	
1	Books for students circulation	Titles	3337
		Volumes	9577

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2	Department Library for Reference	Books	244
		Project Reports	534
3	Technical Journals	National	10
		International	-
		e-Journals	149
4	Technical Magazines Subscribed	3	
5	News Papers	14	
6	Educational CDs (CBTs)	2029	

b) Internet facilities for Staff & Students

Sr. No.	Descriptions	Quantity in Numbers
1	Computers	106
2	Computer with Internet Facilities	106
3	Bandwidth	50 Mbps
4	Network Facilities for all Computers	Yes
5	Printers	4
6	Scanner	2
7	LCD Projector	2
8	External DVD	2

c) Class rooms with ICT facility

Sr.No	Descriptions	Number of Rooms
1	Class room with White Board	3
2	Class room with Projectors	3
3	Class room with Internet Facilities	3
4	Class room with ICT Facilities	3

d) Laboratories for UG and PG:

Sr. No.	Name of the Laboratory for UG Course	Carpet Area in SQ.M
1	Computer Centre	66.00
2	Embedded system	66.00
3	CAD & Simulation	66.00
4	Microprocessor and Microcontroller	66.83
5	Power Electronics	66.27
6	Communication Engineering	67.52
7	Microwave Engineering	66.00
8	Control and measurements	68.85
9	Basic Electronics	68.20
10	Electrical Engineering	134.00
11	PG Research Lab (PG)	68.20
12	Texas Instruments Lab	Shared with Microprocessor and Microcontroller Lab
13	e-Yantra Lab	Shared with CAD & Simulation Lab

**31. Number of students receiving financial assistance from college, university, government or other agencies**

Sr. No.	Category	2010-11	2011-12	2012-13	2013-14	2014-15
1	SC	20	20	24	24	16
2	ST	-	-	1	-	1
3	VJNT	21	22	28	25	23
4	SBC	10	11	12	11	11
5	OBC	33	34	33	38	31

**32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts**

<b>Academic Year</b>	<b>Special Lectures/ Workshops / Seminar</b>	<b>Title</b>	<b>Date</b>	<b>External Experts</b>
2014	Guest Lecture	Importance of Gate Exam	21 <sup>st</sup> Feb	Mr.Mandar Deshpande
2014	Guest Lecture	System Networking and Opportunities	12 Feb	Mr.Husen Patel
2014	Guest Lecture	Project selection and Implementation	22 Feb	Mr.Amar Phadke
2013	Guest Lecture	Opportunities in PLC/ SCADA Automations	10 <sup>th</sup> Sept	Mr.Chaitanya Kolhatkar
2013	Guest Lecture	Swami Vivekanand and Indian Culture	12 <sup>th</sup> Jan	Mr.Suhas Mane
2012	Guest Lecture	Nano Technology and its use in cancer	8 <sup>th</sup> Aug	Dr.Mrs .R.S Patil
2012	Guest Lecture	Present Scenario of Electronics & IT Industries of GDP	12 <sup>th</sup> Sept	Mr.Parikshit Dalavi
2014	Workshop	ROBOTICS	8,9 <sup>th</sup> August	ROBOGENESIS, Bangalore.
2014	Workshop	Embedded System	14 <sup>th</sup> August	Suryakant Dodmise Core Technology Kolhapur
2015	Guest Lecture	AMCAT Test	26 <sup>th</sup> February	Ravi Shah, Manager Campus Relation Maharashtra Aspring Minds, Pune

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### 33. Teaching methods adopted to improve student learning :

Aiming at the completeness of the teaching learning process, the department facilitates the use of various teaching tools such as

1. Use of LCD Projector.
2. Use of Power Point Presentations. .
3. Audio Visual Aids etc.( Through NPTEL Videos)
4. Extra practices were given by Assignment and Tutorial Work.
5. Group discussions
6. Besides these, guest lectures and industrial visits arranged for the Students in order to be update and to be practical oriented in the field of Electronics Engineering.

Sr. No	Facility Name	Details	Reasons for Creating Facility	Area in which students are expected to have enhanced learning
1	Virtual Lab	Demonstration of Experiments virtually	For better understanding of concepts through animation at any time at any place	1) ECAD- I 2) ECAD-II 3) Ckt. Simulation
2	Software	Matlab, Xilinx, Orcad, Proteus, Micro wind	Computing software for analysis	1) Project 2) Signals and Systems. 3) DSP 4) VLSI
3	Charts and Models	Charts & scale models are used in the laboratories for specific practicals	Easy demonstration with 3D model Highlights specific practical applications	All Subjects
4	E- Learning	Online Journals, NPTEL Videos	Advance method of learning for practicals Useful for research/projects	
5	Moodle facility	LAN based for all students in campus it self	To give assignments, viva questions, model answers, question bank to students To give study material of all subjects	University Practical, Theory Examination All subjects



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**34. Participation in Institutional Social Responsibility (ISR) and Extension activities :**

Sr.No	Nature of Service
1	Road Safety Awareness Programme
2	Youth Development Programme
3	Blood Donation Camp
4	E-waste Collection Camp
5	One day Special Camp at Blind School
6	Cleanliness Awareness Camp at Near By Villages
7	Warana Children's Orchestra
8	Donation to Chitanya Matimand Mulanchi Shala, Warananagar
9	Passport Camp
10	NSS Camp

**35. SWOC analysis of the department and Future plans**

**Strengths:**

- Department has experienced faculty with academic excellence.
- Consistency in securing university ranks by students.
- Wide Alumnus quantum.
- Adequate infrastructure, Well equipped & spacious laboratory
- Active Electronics Engineering Students Association.
- Rich department library with digital facility.
- EDC, CDC and T & P cell for carrier guidance and Placement assistance

**Weakness:**

- Lack of funded projects and industrial consultancy.
- Location disadvantages for getting industrial projects and consultancy.

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**Opportunities:**

- To conduct certified workshops through industry for betterment of students.
- To encourage students for competitive examination.
- To develop R&D activities
- Curriculum development with respect to industry requirements.
- Motivating the students to present their ideas in various national and international conferences and journals.
- Establishing collaborative research with reputed industries and institutes

**Challenges:**

- To get research projects from funding agencies.
- To achieve 100% placement.
- To provide value addition to the subjects due to syllabi constraints.

**Future Plans:**

- To improve collaboration with reputed industries
- To transform the professionals to Technocrats.
- To become centre of excellence in research

**Department  
of  
Mechanical Engineering**

## Evaluative Report of the Department

1. **Name of the Department:** Mechanical Engineering
2. **Year of Establishment:** 1996-97
3. **Names of Programmes/Courses offered:**

Sr. No.	Engineering /Technology			Year of Started
1	UG	BE	Mechanical Engineering	1996-97
2	PG	ME	Mechanical (Design Engg.)	2010-11

4. **Names of Interdisciplinary courses and the departments / units / subjects involved**

Sr. No	Subjects	Semester	Department Involved
1	Electrical Technology	III	Electronics Engineering
2	Engineering Mathematics III	III	Applied Science

5. **Annual / semester / choice based credit system (programme wise) :**

Sr. No.	Engineering / Technology		Annual / Semester Credit System
1	UG	BE	Semester System
2	PG	ME	Semester System

6. **Participation of the department in the courses offered by other departments :**

Sr.No.	Subjects	Semester/Courses	Department
1	Basic Mechanical Engineering	Sem-I/II	Applied Science
2	Engineering Graphics	Sem-I/II	

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

Sr. No	Courses offered	Industry/University
1	CREO	Infidof Solutions, Bangalore
2	HYPERMESH	
3	Computational Fluid Dynamics	

**8. Details of courses. programmes discontinued (if any) with reasons:**

**NIL**

**9. Number of Teaching posts :**

Cadre Wise Teaching Faculty	2014-15	
	S	F
Professor	5	2
Associate Professor	10	0
Assistant Professor	29	42

S – Sanctioned

F – Filled

**10. Faculty profile with name, qualification, designation, specialization : 2014-15**

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience			No. of Ph.D. Students guided for the last 4 years
					Teaching	Industry	Total	
1	Prof.N.S. Hanamapure	M.E. (Mech.)	Head & Prof.	Design Engg	29	3.5	32.5	-
2	Prof.V.R. Gambhire	M.E. (Mech.)	Professor	Design Engg	31	2	33	-
3	Prof. G.S.Kamble	M.E. (Mech.) Ph.D. (Reg.)	Asst. Prof.	Heat Power Engg.	8	1.5	9.5	-
4	Prof.P.V. Mulik	M.E. (Mech.) Ph.D. (Reg.)	Asst. Prof.	Production Engg.	9	4.5	13.5	-
5	Prof. K.D.Joshi	M.E. (Mech.)	Asst. Prof.	Design Engg	9	8	17	-
6	Prof. V.N.Mane	M.E. (Mech.) Ph.D. (Reg.)	Asst. Prof.	CAD/CAM	8	8	16	-
7	Prof.P.J.Patil.	M.E. (Mech.) Ph.D. (Reg.)	Asst. Prof.	Design Engg	7	10	17	-
8	Prof.R.T. Salunkhe	M.E. (Mech.)	Asst. Prof.	Production Engg.	17	0	17	-

9	Prof. A.V.Patil	B.E. (Mech.).	Asst. Prof.	Mechanical Engg.	8	1	9	-
10	Prof.M.V.Jadhav	M. E. (Mech.)	Asst. Prof.	Design Engg	8	1.5	9.5	-
11	Prof. M.R.Todkar	B. E. (Auto)	Asst. Prof.	Automobile Engg.	9	2.5	11.5	-
12	Prof.S.S.Mahadik	M.E. (Mech.) Ph.D. (Reg.).	Asst. Prof.	Production Engg.	7	5	12	-
13	Prof. N.S. Dharashivkar	M.E. (Mech.) Ph.D. (Reg.)	Asst. Prof.	Design Engg	15	5	20	-
14	Prof. A.S.Todkar	M.E. (Mech.) Ph.D. (Reg.)	Asst. Prof.	Production Engg.	15	3	18	-
15	Prof. A.S.Chavan	M.E. (Mech.)	Asst. Prof.	Heat Power Engg.	10	0	10	-
16	Prof.M.R Jadhav	M.E. (Mech.) Ph.D. (Reg.)	Asst. Prof.	Production Engg.	6	1.5	7.5	-
17	Prof. S.H.Patil	M.E. (Mech.)	Asst. Prof.	CAD/CAM	7	4	11	-
18	Prof. A.R.Shinge	M.Tech. (Mech.) Ph.D. (Reg.)	Asst. Prof.	Production Engg.	5	1	6	-
19	Prof.P.B.Kadam	M.E. (Mech.)	Asst. Prof.	CAD/CAM	9	4.5	13.5	-
20	Prof.R.G. Kshirsagar	M. Tech. (Mech.)	Asst. Prof.	Production Engg.	7	0.5	7.5	-
21	Prof. A.B.Bachche	M.E. (Mech.)	Asst. Prof.	Design Engg	6	2	8	-
22	Prof. S.V.Lingaraju	M. Tech. (Mech.)	Asst. Prof.	Design Engg	3	0	3	-
23	Prof. S.M.Gidaveer	M. Tech (Mech.).	Asst. Prof.	Prod. Mgt.	3	1	4	-
24	Prof. M.S.Sawant	M. Tech. (Mech.)	Asst. Prof.	Thermal & Fluids Engg.	2.5	3.5	6	-

25	Prof. P.V.Kamble	M. Tech. (Mech.)	Asst. Prof.	Thermal Power Engg.	2	0.5	2.5	-
26	Prof. S.S.Patil	M. Tech. (Mech.) Ph.D. (Reg.)	Asst. Prof.	Mech-Energy Tech.	4	0	4	-
27	Prof. P.R.Patil	M.E. (Mech.)	Asst. Prof.	Production Engg.	10	1	11	-
28	Prof. P.D.Kulkarni	M.E. (Mech.)	Asst.Prof	Design Engg.	19	2.5	21.5	-
29	Prof. A.M.Patil	M.E. (Mech.)	Asst. Prof.	Design Engg.	6	0	6	-
30	Prof. V.V.Patil	M.E. (Mech.) Ph.D. (Reg.)	Asst. Prof.	Production Engg.	5	1.5	6.5	-
31	Prof. M.B.Banakar.	M.E. (Mech.)	Asst. Prof.	Design Engg.	3	0	3	-
32	Prof. A.D.Andagi	M. Tech. (Mech.)	Asst. Prof.	CIM	2	0	2	-
33	Prof.S.S. Borchate	M.E. (Mech.)	Asst. Prof.	Design Engg.	3	0	3	-
34	Prof. A.S.Darur	M.Tech. (Mech.)	Asst. Prof.	Design Engg.	2.5	1	3.5	-
35	Prof.V.C.Chavan	B.E Prod.	Asst. Prof.	Production Engg.	1	4	5	-
36	Prof.S.A. Mogane	M.Tech. (Mech.)	Asst. Prof.	CAD/CAM	2	0	2	-
37	Prof. P.V.Mohite	B.E. (Mech.)	Asst. Prof.	Mechanical Engg.	4.5	1	5.5	-
38	Prof. S.J.Kedari	M.Tech. (Mech.)	Asst. prof.	Prod. Mgt.	1	0	1	-
39	Prof. D.S.Patil	M.E. (Mech.)	Asst. Prof.	Design Engg	2	0	2	-
40	Prof. N.T. Patil	B.E. (Mech.)	Asst. Prof.	Mechanical Engg.	1	0	1	-
41	Prof. A.P. Nirmale	M.Tech. (Mech.)	Asst. Prof.	CAD/CAM Automation	1	2	3	-
42	Prof.S.K.Darekar	M.E Prod.	Asst. Prof	Production Engg	1	1	2	-
43	Prof. S.B.Bachche	B.E. (Mech.)	Asst. Prof.	Mechanical Engg.	1	1	2	-
44	Prof. P.N.Deshmukh	B.E. (Mech.)	Asst. Prof.	Mechanical Engg.	1	0	1	-

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**11. List of senior visiting faculty :**

Sr. No	Name	Address	Program	Course
NIL				

**12. Percentage of lectures delivered and practical classes handled by temporary faculty :**

NIL

**13. Student –Teacher Ratio :**

UG - B.E- Mechanical Engineering: 15:1

Sr. No	Academic Year	Sanctioned Intake	Faculty Strength	Student –Teacher Ratio
1	2014-15	540	36	15:1

PG - M.E – Mechanical Design Engineering: 12:1

Sr. No	Academic Year	Sanctioned Intake	Faculty Strength	Student –Teacher Ratio
1	2014-15	36	3	12:1

**14. Number of academic support staff (Technical) and administrative staff :**

Description	2014-15	
	S	F
Technical Support Staff	18	18
Administrative Staff	1	1

S – Sanctioned

F – Filled

**15. Qualifications of teaching faculty with DSc / D.Litt / Ph.D / MPhil / PG :**

Qualification	Total
D.Sc.	NA
D.Litt	NA
Ph.D	--
Ph.D (Registered)	09
PG	35



**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :**

Sr. No.	Faculty	Title of the Project	Name of the Funding Agencies	Grants received Rs..-	Status
NIL					

**17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received :**

Sr. No.	Title of the Project	Name of the Funding Agencies	Grants received Rs..-	Status
1	Development of Metrology & Q. C. Lab (MODROB)	AICTE, New Delhi	12,00,000/-	Completed

N – National I – International

**18. Research Centre /facility recognized by the University :**

Sr.No	Description	Recognized University	References
1	PG Research Laboratory	Shivaji University, Kolhapur	Affi/T-2/ VTD/ VIDYAPARISHAD/Sub No.307/Dt/15-May-2014/3444//16-June-2014

**19. Publications : Faculty**

a) Paper Publications as on today

Sr.No	Name of the Faculty	Publications				Total
		NJ	IJ	NC	IC	
1	Prof. N.S.Hanamapure	0	8	5	1	14
2	Prof. V.R.Gambhire	0	6	3	3	12
3	Prof. A.S.Todkar	0	11	3	0	14
4	Prof.	0	0	4	0	4
5	Prof. P.V.Mulik	0	3	4	2	9
6	Prof. G.S.Kamble	0	5	3	2	10
7	Prof. K.D.Joshi	0	1	1	0	2

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8	Prof. R.T.Salunkhe	0	4	1	0	5
9	Prof. M.R.Todkar	0	3	0	0	3
10	Prof. P.R.Patil	0	1	0	0	1
11	Prof. P.J.Patil	0	0	1	0	1
12	Prof. S.S.Mahadik	0	2	2	0	4
13	Prof. A.S.Chavan	0	0	0	1	1
14	Prof. M.R.Jadhav.	0	3	4	1	8
15	Prof. P.D.Kulkarni	0	2	1	0	3
16	Prof. M.V.Jadhav	0	1	7	1	9
17	Prof. A.M.Patil	0	6	0	0	6
18	Prof. V.V.Patil.	0	3	0	0	3
19	Prof. A.B.Bachche.	0	3	13	0	16
20	Prof. A.R.Shinge.	0	1	2	0	3
21	Prof. V.N. Mane.	0	2	3	1	6
22	Prof. S.S.Patil	0	1	5	0	6
23	Prof.S.V.Lingaraju	0	1	1	0	2
24	Prof. A.V.Patil.	0	0	1	0	1
25	Prof. S.H.Patil	0	0	2	0	2
26	Prof. P.B.Kadam	0	3	2	0	5
27	Prof. R.G.Kshirsagar.	0	0	3	1	4
28	Prof. S.M.Gidaveer	0	1	0	0	1
29	Prof. P.V.Kamble	0	0	3	0	3
30	Prof. M.S.Sawant	0	1	2	0	3
31	Prof. P.N.Deshmukh	0	1	1	0	2
32	Prof. A.P.Nirmale	0	0	1	0	1
33	Prof. P.V.Mohite	0	0	1	0	1
34	Prof. S.B.Bachche	0	0	1	0	1
35	Prof. S.J.Kedari	0	0	1	0	1

NJ- National Journal

IJ – International Journal

NC- National Conference

IC – International Conference

**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 Book – NIL**

**Books Edited – NIL**

Books with ISBN/ ISSN numbers with details of publisher-

Sr. No.	Name of the Author	Title	Publication	ISSN/ ISBN No.
1	Prof. P. J.Patil	A Textbook of Metallurgy	2K Publications, Miraj	ISBN-9788-19307-7795

Detail information for Citation Index, SNIP, SJR etc

Sr. No.	Name of the Faculty	Citation Index	SNIP	SJR	Range of Impact Factor	h-index
1	Prof. N.S.Hanamapure	3	-	-	0.698-5.611	1
2	Prof. V.R.Gambhire	6	-	-	1.012	2
3	Prof.A.S.Todkar	3	-	-	0.509-5.78	1
4	Prof. N.S.Dharashivkar	0	-	-	1.528	0
5	Prof. P.V.Mulik	2	-	-	1.121-1.69	1
6	Prof. G.S.Kamble	3	-	-	0	1
7	Prof. K.D.Joshi	0	-	-	0	0
8	Prof. R.T.Salunkhe	2	-	-	1.016	1
9	Prof. M.R.Todkar	0	-	-	1.1-5.442	0
10	Prof. P.R.Patil	0	-	-	2.275	0
11	Prof. S.S.Mahadik	2	-	-	2.41	1
12	Prof.A.S. Chavan	0	-	-	0.54	0
13	Prof. M.R.Jadhav	4	-	-	0	1
14	Prof. P.D.Kulkarni	0	-	-	1.23	0
15	Prof. M.V.Jadhav	0	-	-	2.1	0
16	Prof. A.M.Patil	0	-	-	1.2-1.69	0

17	Prof.V.V. Patil	0	-	-	1.317	0
18	Prof. A.B.Bachche	0	-	-	0.317-2.168	0
19	Prof.A.R. Shinge	2	-	-	2.41	1
20	Prof. S.S.Patil	0	0.786	0.417	2.17	0
21	Prof.S.V.Lingaraju	0	-	-	2.1	0
22	Prof.A.V. Patil	0	-	-	2.1	0
23	Prof. S.H.Patil	0	-	-	1.21	0
24	Prof.R.G.Kshirsagar	0	-	-	3.127	0
25	Prof. S.M.Gidaveer	0	-	-	5.6	0
26	Prof.M.S. Sawant	3	-	-	0	1
27	Prof.P.N.Deshmukh	0	-	-	2.275	0
28	Prof. D.S.Patil	0	-	-	2.97	0
29	Prof.A.P. Nirmale	0	-	-	2.97	0

**20. Areas of consultancy and income generated :**

Sr.No	Year	Title	Income
1	2014-15	Online Centre for Mahavitaran Examination	12,60,000/-
2	2014-15	Vibration Measurement of Milling Machine by using FFT Analyzer	7,000/-
3	2014-15	Stress analysis of involute profile & cosine Gear by using Photo elastic techniques	5,000/-
4	2013-14	Pro-E	1,84,000/-
5	2013-14	Hypermesh	52,000/-
<b>Total</b>			<b>15,08,000/-</b>

**Internal Revenue Generation in the Department**

Sr. No.	Year	Particulars	Amount in Rs.
1	2014-15	Fabrication of Hostel Furniture	1,40,466/-
2	2013-14	Fabrication of Hostel Beds & ISTE Convention Stage arrangement in Gymnasium Hall	1,56,118/-
3	2012-13	Fabrication of Hostel Beds and Grills etc.	2,66,113/-

4	2011-12	Fabrication of Laboratory Furniture & Maintenance Work	1,04,045/-
5	2010-11	Glass Fitting, Bench Repairs of Laboratories in the Institute	46,998/-
<b>Total</b>			<b>7,13,740/-</b>

## 21. Faculty as members in

a) National Committees

b) International Committees

Sr. No.	Name of Staff	Membership in Professional Bodies	
		National	International
1	Prof. N.S.Hanamapure	ISTE, LM3263	---
2	Prof.V.R. Gambhire	ISTE, LM3260	--
		IEI, M01409950	--
3	Prof.A.S. Todkar	ISTE, LM67508	--
		FIV, F-183A2	--
		MIE, M-135149-9	--
		CE, VII/F-4054	--
4	Prof.N.S. Dharashivkar	ISTE, LM7028	--
5	Prof. P.V.Mulik	ISTE, LM69933	--
6	Prof. G.S.Kamble	ISTE, LM98625	--
7	Prof. K. D.Joshi	ISTE, LM 69931	--
8	Prof. R.T.Salunkhe	ISTE, LM69927	--
9	Prof. M.R.Todkar	ISTE, LM69929	--
10	Prof. P.R.Patil	ISTE, LM67509	--
11	Prof. P.J.Patil	ISTE, LM69928	--
12	Prof. S.S.Mahadik	ISTE, LM69938	--
13	Prof. A.S Chavan	ISTE, LM69934	--
14	Prof. M.R.Jadhav	ISTE, LM75530	--
15	Prof. P.D.Kulkarni	ISTE, LM18335	--
16	Prof. M.V.Jadhav	ISTE, LM69930	--
17	Prof. A.M.Patil	ISTE, LM 98632	--
18	Prof. V.V.Patil	ISTE, LM98633	--
19	Prof. A.B.Bachche	ISTE, LM98630	--

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20	Prof. A.R.Shinge	ISTE, LM98626	--
21	Prof. V. N. Mane	ISTE, LM69937	--
22	Prof. S.S Patil	ISTE, LM98631	--
23	Prof. S .V.Lingaraju	ISTE, LM92099	--
24	Prof. A.V.Patil	ISTE, LM69926	--
25	Prof. S.H.Patil	ISTE, LM98627	--
26	Prof. P.B.Kadam	ISTE, LM68011	--
27	Prof. R.G.Kshirsagar	ISTE, LM78214	--
28	Prof. S.M.Gidaveer	ISTE, LM92100	--
29	Prof. P.V.Kamble	ISTE, LM	--
30	Prof. M.S.Sawant	ISTE, LM98628	--
31	Prof. A. S .Darur	ISTE, LM98976	--
32	Prof. D. S Patil	ISTE, LM98731	--
33	Prof. S. A.Mogane	ISTE, LM98975	--
34	Prof. P. V.Mohite	ISTE, LM87000	--
35	Prof. S. J.Kedari	ISTE, LM98937	--
36	Prof. A. D.Andagi	ISTE, LM98977	--

## 22. Student projects

- Percentage of students who have done in-house projects including inter departmental.
- Percentage of students placed for projects in organizations outside the institution.

Courses	2014-15		2013-14		2012-13		2011-12		2010-11	
	I	O	I	O	I	O	I	O	I	O
UG	91.84	8.16	74	26	62.96	37.04	66.67	33.33	58.34	41.66
PG	100.00	0.00	77.78	22.22	94.12	5.88	75.00	25.00	--	--

I - Inter Departmental

O - Research Laboratories/ Industry /  
Other Agencies

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### 23. Awards / Recognitions received by faculty and students

#### A) Faculty Awards

Sr. No.	Name of faculty	Recognitions	Year
1	Prof. S. V. Lingaraju	Second prize for Maharashtra State Design Project Award at 18 <sup>th</sup> ISTE student National Convention, Kunal Kolam, Tamilnadu	2015
2	Prof. A. S. Todkar	Second prize for PG project at state level “AVISHKAR” in Shivaji University, Kolhapur	2014
3	Prof. A. M. Patil	Best Teacher Award in Engg. Graphics subject, TKIET, Warananagar	2014
4	Prof. P. V. Mulik	Best Teacher Award in Engg. Graphics subject, TKIET, Warananagar	2014
5	Prof. N.S.Hanamapure	ISTE Best M. Tech. Thesis in the Mechanical Engg. at 43 <sup>rd</sup> ISTE National Convention, TKIET, Warananagar	2013
6	Prof. K. D. Joshi	First prize for UG project ONIGA at 16 <sup>th</sup> ISTE Student National Convention, Tanjavur, Tamilnadu, 2012	2012
7	Prof. K. D. Joshi	Second prize for UG project ONIGA at National level project competition Techno-Champ organized by John-Deere, Pune, 2012	2012
8	Prof. N.S.Hanamapure	‘ADARSH SHIKSHAK PURSKAR – 2010’ by SWVSM, Warananagar	2010

#### B) Student Awards

Sr. No.	Name of Student	Award	Year
1	Pankaj Mali	Robo Race, First prize, Finolex Academy Ratnagiri	2015
2	Pankaj Mali Shelke Mahesh Ram	Robo Race, First prize, DYP Kolhapur	2015

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3	Mahamuni Anirudha	Robo Race, First prize, Adarsh Group ,Vita	2015
4	Mohite Swapnaj Mahamuni Anirudha	Robo Race, First prize, Finolex Academy Ratnagiri	2015
5	Bhoite Shubham	Zest 15, First prize, COEP , Pune	2015
6	Kharje Mayuresh	Transblazer 2k15, First Prize, RIT,Sakharale	2015
7	Jadhav Sreyas S.	Transblazer 2k15, First Prize, RIT,Sakharale	2015
8	Ramesh Shenavi	VERTEX 2K15, Second Prize, WCE, Sangali.	2015
9	Patil Sachin	VERTEX 2K15, Second Prize, WCE, Sangali.	2015
10	Surve Sushant	Galaxy 2K15- RoboRace, First Prize, SDIT, Red-Shirala	2015
11	Daljit sing	Innovate-Imathalate, First prize, PVPIT, Budhagaon	2015
12	Mali Pankaj, Patil Manoj	Robo Throttle onn, First prize, YSPM Satara	2015
13	Mali Pankaj	Robo Race, First prize, SGI Atigre	2015
14	Gurav Mahesh K.	Quiz Competition, Second Prize, Shivaji University	2015
15	Chilme Amol V.	Quiz Competition, Second Prize, Shivaji University	2015
16	Pawar chaitanya, Suyog patil	Quiz compitation, First Prize, MBA unit Shivaji University	2014
17	Jadhav Nikhil murlidhar	Sport Quiz compitation, second Prize, College of Engg. Pune	2014
18	Todkar Ajay, Shedege Ashitosh, Hegaje Malgonda	KURUKSHETRA-ENGENIOUS, First Prize, AMGOI Wathar	2014
19	Wadikar Mohan R.	KURUKSHETRA-ENGENIOUS, Second Prize, AMGOI Wathar	2014
20	Bharathi Dasharath	TRAILBLAZER, Second Prize, RIT, Sakharale.	2014



21	Parth Ghatage, Parmeshwar Dhekane	Mind Presenter, First Prize, RIT Sakharale	2013
22	Ajit B. Bachche	ISTE Best M. Tech. Thesis in the Mechanical Engg. at 43 <sup>rd</sup> ISTE National Convention, TKIET, Warananagar	2013
23	Niranjan Doiphode	Group Discussion, Second Prize, TKIET, Warananagar	2012
24	Juned Aslam Maner	Group Discussion, Third Prize, TKIET, Warananagar.	2012
25	Vijay Mane	Debate, First Prize, TKIET, Warananagar	2012
26	Sumeet Tembore, Pranav Yadav,	First prize for UG project ONIGA at 16 <sup>th</sup> ISTE Student National Convention, Tanjavur, Tamilnadu, 2012	2012
27	Nitish Todkar	Second prize for UG project ONIGA at National level project competition Techno-Champ organized by John-Deere, Pune, 2012	

**C) University Rankers :**

Sr. No	Name of Student	Year	Rank	Percentage (%)
1	Mr. V. Y. Bondre	2013-14	III	76.65
2	Mr. P. A. Kadam	2008-09	VII	76.73
3	Mr. N. I. Patil	2004-05	VI	78.47
4	Mr. A. S. Gaikwad	2003-04	V	78.33
5	Mr. S. C. Vhanmane	2001-02	II	77.00
6	Mr. P. P. Dargad	2000-01	II	73.20

**D) Paper presentation/Model Competitions Winners:**

- Mr. Powar Rohit, Mr. Sankpal Vishvaraj won First prize in Techno-Glance at TKIET Warananagar on 12th March 2015.
- Mr. Dhanawade Arshad, Mr. Bhosarkar Kaustabh won Third Prize in Technotsav 2015 at Shantiniketan Polytechnic Sangli on 11th Feb 2015.
- Mr. Pawar Suraj S., Mr. Sankpal Vishvaraj won First prize in Auto Stroke Codex Design at TKIET Warananagar on 10th Feb 2015.

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- Mr. Kshirsagar ashish won Second Prize in Auto Stroke Codex Design at TKIET Warananagar on 10th Feb 2015.
  - Mr. Sanade Rahulamin, Mr. Shelke Mahesh won First prize in Techono Battle at TKIET Warananagar on 9th Feb 2015.
  - Mr. Onkar Arun Dhole won Third Prize for Auto Farming Robo in 28<sup>th</sup> international award presentation by INOX University at Satara, 2014
  - Miss Patil Rajyogini won Third Prize in Paper Presentation EUREKA2K14 at TKIET Warananagar, on 20th Sept. 2014.
  - Mr. Bhokare Sravan won second Prize in Paper Presentation EUREKA2K14 at TKIET Warananagar, on 20th Sept. 2014.
  - Mr. Chaughule Rajkumar R., Mr. Chavan Digvijay D. won Third Prize in Paper Presentation at AMGOI, Vathar, on 21st Feb. 2014.
  - Mr. Parth Ghatage, Mr. Parmeshwar Dhekane won second Prize in Paper Presentation at AMGOI, Vathar, on 21st Feb. 2014.
  - Mr. Nitish Todkar, Mr. Tembere Suneet won 1st Prize in Project competition, ISTE Convention on 2013.
  - Ms. Saste Shradha M., Ms. Patil Shital A, Ms. Pulukute Pallavi, Ms. Sayyad Asiya M. won Third Prize in Project competition as a part of Jidnyasa 2k13 at TKIET, Warananagar on 5th April. 2013.
  - Mr. Tagare Vikas, Mr. Patil Viswajit, Mr. Talaskar Santosh and Mr. Wadar Sagar won Second Prize in Project competition as a part of Jidnyasa 2k13 at TKIET, Warananagar, on 5th April. 2013.
  - Miss. Saste Shradha M., Miss. Patil Shital A, Miss. Pulukute Pallavi, Miss. Sayyad Asiya M. won Third Prize in Project competition as a part of Jidnyasa 2k13 at TKIET, Warananagar, on 5th April. 2013.
  - Mr. Nitish Todkar, Mr. Tembere Suneet won First Prize in Project competition as a part of Jidnyasa 2k13 at TKIET, Warananagar, on 5th April. 2013.
  - Mr. Satyajit Patil, Mr. Akshay Kumbhar, Mr. Niranjana Doiphode won First Prize in Technomania during Annual social function 2013 at TKIET, Warananagar on 22nd Feb. 2013.
  - Mr. Shravan M Bhokare & Mr. Virendrasinh H. Shinde won First Prize in Technical Symposium Mahasamar at WCE, Sangli, held on 15th & 17th Feb. 2013.
  - Mr. Pankaj Chikurdekar, Mr. Shreyas Bhawe and Mr. Haridas C. Bargaje won Third Prize in Paper presentation in Eureka 2k13 at TKIET, Warananagar on 12th Feb. 2013.

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- Mr. Koli Mahesh D. & Mr. Magar Jasing N. won first prize in paper presentation at Nanasaheb Mahadik Engg. Collage peth on 28th Jan 2013.
  - Mr. Shubham More won Third Prize in Paper presentation in National conference at TKIET, Warananagar held on 1st & 7th Oct. 2012.
  - Mr. Pritam Mali won Second Prize in cadventure(catia) model competition at Walchand Collage of engg., Sangli on 8th & 9th Sept. 2012.
  - Mr. Harshal Satish, Mr. Dewang & Mr. Harish C. Bargaje won first prize in AutoCAD model competition at Walchand Collage of Engg. Sangli on 6th & 7th sept. 2012.
  - Mr. Patil Satyajit won Third Prize in Autocad model competition at Bharati Vidyapeeth Collage of engg. Kolhapur on 6th & 7th sept. 2012.
  - Mr. Satyajit Patil won Second Prize in Autocad model competition at Bharati Vidyapeeth Collage of Engg. Kolhapur on 6th sept. 2012.
  - Mr. Vineet Ravulche, Mr. Sameer Wagh, Mr. Virant Salunkhe won First Prize in Project Competition at TKIET, Warananagar on 26th Feb. 2012.
  - Mr. Nitin Jadhav, Mr. Sagar Patil won Second Prize in Project Competition at TKIET, Warananagar on 26th Feb. 2012.
  - Mr. Viswajit Patil, Mr. Abhijit Patil won Third Prize in Project Competition at TKIET, Warananagar on 26th Feb. 2012.
  - Mr. Prashant Patil won First Prize in Paper Presentation at AMGOI, Wathar on 25th Feb. 2012.
  - Mr. Swapnil patil won First Prize in Paper Presentation at AMGOI, Wathar on 25th Feb. 2012.

#### **E) Co-Curricular Activities**

<b>Name</b>	<b>Event</b>	<b>Type of Competition</b>	<b>Prize</b>
<b>2014-15</b>			
Patil Parag, Sumeet Lade	Badminton	Lead Competitions, DKTE	First
Nirmal Anand	KHO-KHO	Lead Competitions, DKTE	Second
Nikhil Jamdade	VolleyBall	Lead Competitions, DKTE	First

Chaitanya Kambale, Shubham Bhoite, Sandesh Kelkar, Mahesh Shelake	Athletic	Zonal And Lead Competitions, DKTE	First
Vijay Shelke, Rohin Attar	Kabaddi	Open National, COE, Pune	First
<b>2013-14</b>			
Prasad Kulkarni, Rohan Patil, Vijay Shelake, Vivek Patil	Kabaddi	Lead Competitions, DKTE	Second
Komal Varude	Kabaddi (W)	Lead Competitions, DKTE	First
Chaitanya Kambale	Long Jump	Zonal	Second
Chaitanya Kambale	100mtr ,200mtr	Lead Competitions, DKTE	Third
Shubham Bhoite	TKIET SHREE	TKIET	First
Chaitanya Kambale	Best Athletic	Lead Competitions, DKTE	First
<b>2012-13</b>			
Himanshu Desai, Ajay Adasur, Rama Patil, Nikesh Tawade, Nikhil Garje, Sandesh Kelkar, Abhijeet Khade	Cricket	Lead Competitions, DKTE	Second
Jadhav Deepak, Ghatage Rahul, Yadav Pranav, Salgar Umar, Shinde Niranjan	Basket ball	Lead Competitions, DKTE	First
Anand Nirmal	KHO-KHO	Lead Competitions, DKTE	First
Rohini Chopade	KHO-KHO (W)	Lead Competitions, DKTE	First
Kumbhar Swapnil, Kambalekar Sachin, Godalwad Keshav, Patil Suraj, Patil Niranjan, Patil Rohan	Hockey	Lead Competitions, DKTE	Second
Patil Sujeet, Hebalkar Sattapa	Badminton	Lead Competitions, DKTE	Second

Rama Patil	Best Athletic	Lead Competitions, DKTE	First
Rama Patil	Best Allrounder	Lead Competitions, DKTE	First
Pooja Kachare	Kabaddi (W)	Lead Competitions, DKTE	First
<b>2011-12</b>			
Patil Abhijeet, Patil Rama, Sawant Subhodh, Jadhav Nishant, Patil Akhay, Kumbhar Akhay, Prasad Kulkarni	Kabaddi	Lead Competitions, DKTE	First
Pawar Aniket, Patil Dhiraj, Patil Agast, kulkarni prathmesh	Football	Open National, SGI, Atigre	Second
Subhodh Sawant, Yashwant Jadhav, Rama Patil, Mahesh koli, Ravindra Pawar	Cricket	Open National, SGI, Atigre	First
Patil Swapnil, Pranav Yadav, Rahul Ghatage, Nishant Jadhav	Basket ball	Lead Competitions, DKTE	First
<b>2010-11</b>			
Magar Jaysingh	Chess	Zonal	Second
Koli Mahesh, Desai Himanshu, Patil Rama, Patil sahil, Tawade Nilesh	Cricket	Zonal	First
Jadhav Nishant,	Long Jump	Zonal	First
Patil Swapnil, Patil Sushil, Patil Rama	Relay 4*100	Zonal	First
Kambale Chaitanya	Long Jump	Zonal	Third
Sandesh Kelkar	Long Jump	Zonal	Second
Shinde Niranjana, Yadav Pranav, Jadhav Nishant, Patil Swapnil, Patil Dhiraj, Naik Kiran	Basketball	Zonal	Second

**24. List of eminent academicians and scientists / visitors to the department**

<b>Sr. No .</b>	<b>Academic Year</b>	<b>Name of the Academicians Scientists</b>	<b>Institution / Industry</b>	<b>Purpose of Visit</b>
1	2015	Shri Mansing Lingrus	GATE Forum	GATE Examination
2	2015	Shri Mahesh Bal	Bosch India Ltd; Pune	Supply Chain Management
3	2015	Shailesh Jadhav	TCS, Pune	Interaction session of Campus selected students
4	2015	Ashitosh Shedage	Black & Veach Group, Mumbai	Interaction session of Campus selected students
5	2015	Vibhushan Jadhav, Akshay Kumbhar	TICB, Mumbai	Interaction session of Campus selected students
6	2015	Shri. Rajaram Lokhande	Officer on Special Duty, Urja 4	Current Scenario in Power Sector
7	2015	Mr. AkashKumar	Wisdom Ware Technology, New Delhi	META Botics and Robotics
8	2015	Dr. Rajesh Powar,	Kirloskar Bros. Ltd., Kirloskarwadi	Guest lecture on “Role of Meditation for Improvement of life Quality”
9	2015	Shri Nikhil J. Padte	JANGS Technologies, Ichalkaranji	JIDNYASA 2K15
10	2015	Shri Sachin Mane	IPS	JIDNYASA 2K15
11	2015	Shri Ganesh Gadve	Mayura Steels Pvt, Ltd, Kolhapur	JIDNYASA 2K15
12	2015	Prof. Veeresh G. Balikai	Asso. Prof. BVBCET, Hubali	Interaction with Students
13	2015	Dr. S. G, Joshi	Department of Mechanical	Expert Lecture on “DFMA”

			Engineering, Walchand College of Engineering, Sangli	for PG Students, 17 March 2015
14	2015	Dr. Suresh D. Mane	Principal, GSIT-Karwar, Ex. - S.W. Railways, SCET Belagavi, HiT Nidasoshi	Interaction with students 2015
15	2015	Dr. R. B. Ingale	Professor, Cummins College of Engg., Pune	Expert Lecture on “FEA” for PG Students : Date: 31 Jan 2015
16	2015	Dr. A. A. Utpat	Vice Principal & Professor FAB Tech, Sangola	Expert Lecture on “Solid Mechanics” for PG Students, 16 Oct 2015
17	2014	Dr. Anil Kakodkar	Former chairman of the Atomic Energy Commission of India, Former Secretary to the Government of India and Former Director of the Bhabha Atomic Research Centre, Trombay	Science Park & Department visit
18	2014	Dr. G. D. Yadav	Former Director and R T Mody Distinguished Professor of Chemical Technology, Jagdish Chandra Bose National Fellow, Dept of Science & Technology, GoI	DTE Admission Procedure
19	2014	Shri. Suhas Gadekar	Prolific Systems and Technologies Pvt. Ltd, Pune.	Advances in Mechanical Engineering
20	2014	Mr. Raju Kawale	Consultant for MPSC and UPSC examination, Warananagar	Competitive Examinations
21	2014	Mr. Tushar Gulbane	I-GLOBAL Solution, Pune	CAD/CAM Techniques used in Industries
22	2014	Mr. Sanjay P.	Certified Energy	Energy

		Gawade	Auditor, Nasik	Conservation and Energy Management, PLC and Automation
23	2014	Shri Amit Fadake, Shri Rajesh Tahasildar	SKF Pune	SKF Bearings
24	2014	Shri Ramesh Hutan Hegade,	Plant Head, BILL TUBE Plant Warana - Kodoli	Guest Lecture on 'Career Choices – Goals and Reality'
25	2014	Shri. Suhas Gadekar,	Prolific Systems and Technologies Pvt. Ltd, Pune.	Expert Lecture on Advances in Mechanical Engineering
26	2014	Prof.D.P.Mishra,	IIT Kanpur	Guest lecture on "Micro Combustor & its Applications"
27	2014	Hon. Shri Gajendra Thakarshi Vasa	CMD, Rocket Engineers, Kolhapur, Principal, Vice Principal	Engineers Day
28	2014	Shri P. B. Patil, Shri Sangolkar,	Z.P. Sangli	'EUREKA' Paper Presentation Competition
29	2014	Prof. V. B. Devarchetti	Government College of Engineering, Pune	Expert Lecture on "ATV" for PG Students, 23 Jan 2014
30	2014	Dr. M. K. Nalawade	Department of Mechanical Engineering, Vishwakarma Institute of Information Technology, Pune	Expert Lecture on "ASM" for PG Students, 25 Feb 2014
31	2014	Prof. V. Anant Chipade	Department of Mechanical Engineering, BMIT, Pune	Expert Lecture on "ADE" for PG Students, 2 Oct 2014



32	2014	Dr. V. M. Phalle	Department of Mechanical Engineering, V.J.T.I., Mumbai	Expert Lecture on “ESA” for PG Students, 12 Nov 2014
33	2013	Dr. M. M. Sharma	Ex. Director UDCT Mumbai	Annual Social function
34	2013	Mr. Prasann Joshi, Mr. Arvind Shiralkar	Manager CAD/CAM GURU from Pune	Training and automation using CAD / CAM / CAE
35	2013	Prof. B.D.Kelkar	Director of M/s. Educational and Engineering Equipments (EEE), Pune	Innovative Techniques
36	2013	Mr. Mandar Deshpande	Marketing manager GATE Forum, Kolhapur	Competitive examinations
37	2013	Mr. Menash Elijah, Kaustub Panase, Karan Kamble	I-GLOBAL Solution, Pune	Opportunities for Mechanical Engineering students
38	2013	Prof. C. P. Murgudkar	Industry Valuator and Consultant Kolhapur	Creativity awareness among the students
39	2013	Mr. Mahesh Vibhute and Mr. Vishal Kamate	Menon and Menon, Vikramnagar, Kolhapur	JIDNYASA Project and Industry Problem Solver Competition
40	2013	Dr. Madhav Raul	Associate Professor, Head-Training & Placement, College of Engineering, Pandharpur	Inaugural of MESA 2K13
41	2013	Shri. Avinash Patil	K & K Group from Kolhapur	EUREKA Paper presentation competition
42	2012	Mr. Santosh Katkar	Inspector, RTO Dept. Kolhapur	Road Safety program
43	2012	Mr. Sanjay Gulbani	Teacher, ‘Art Of Living’, Mumbai	Youth and Today's India

44	2012	Dr. A. A. Mankar	Project Head, IL & FS Energy Development Co. Ltd., Warana, Kolhapur	Inaugural of MESA 2K12
45	2012	Shri R. S. Patil	Chief Engineer, T.K.W.S.S.K. Ltd., Warananagar	Guest lecture on Current Scenario in Industry
46	2011	Mr. Sandip Salokhe, Mr. Basavraj Awati	MITCON, Kolhapur	Entrepreneurship and Development Program
47	2010	Dr. Sachin Kore	Asso. Prof., Dept. Of Mechanical engg., IIT Guwahati	Advance Machining Techniques
48	2010	Mr. Samir Latkar	Technical Head, IFS Academy, Pune	Finite Element Analysis by using ANSYS 11
49	2010	Mr. Milind Deshpande	India Soft Technologies Pvt. Ltd., Pune	Training Program on WITNESS
50	2009	Dr. A. P. J. Abdul Kalam	11th President of India from 2002 to 2007	Celebration of Golden Jubilee function of Warana Complex

**25. Seminars / Conferences / Workshops organized & the source of funding**

Year	Seminars Conferences Workshops	N/I	Title	Date	Funding Agencies
2014-15	Workshop	N	Metabotics and Robotics	28/2/2015	Self
2014-15	Training	N	Group Discussion	23/1/2015	Self
2014-15	Workshop	N	Supply Chain Management	9/2/2015	Self
2014-15	Workshop	N	AUTOSTROKE (2K15)	6/2/2015	Self
2014-15	Workshop	N	PLC and Automation	3/3/2015	Self
2014-15	Workshop	N	Control System	2/12/2014	IITK

2013-14	Workshop	N	Engg. Mechanics	26/11/2013	IITB
2013-14	Workshop	N	Fluid Mechanics	20/5/2013	IITK
2013-14	Conference	N	Empowering Technical	19/12/2013	ISTE-Self
2013-14	Workshop	N	Computer aided analysis using	8/3/2013	Self
2012-13	Workshop	N	Teaching Methodology in	30/1/2013	Self
2012-13	Training	N	FFT Analyzer	6/3/2013	Self
2012-13	Workshop	N	Pneumatics	5/3/2013	Self
2012-13	Workshop	N	Energy Management	2/1/2013	Self
2012-13	Workshop	N	Engg. Thermodynamics	11/12/2012	ISTE-IITB
2011-12	Workshop	N	Road Safety	13/1/2012	Self
2011-12	Workshop	N	MATLAB/ SciLab and their	8/5/2012	Self
2011-12	Workshop	N	I-Robotics	4/10/2011	Self & I
2010-11	Conference	N	Recent Advances in Design and Manufacturing Engg.	27/2/2010	Self

N – National      I – International      S – Self

## 26. Student profile programme /course wise:

M – Male      F – Female

Name of the Course / program	Academic Year	Applications received	Selected (Shifts)		Enrolled (Shifts)				Pass percentage
			Ist	IInd DSE	M		F		
					Ist	IInd DSE	Ist	IInd DSE	
BE Mechanical Engineering	2014-15	NA*	125	60	111	51	14	9	91.16
	2013-14		124	60	106	52	18	8	93.22
	2012-13		125	60	110	54	15	6	90.29
	2011-12		119	71	105	67	14	4	90.65

	2010-11		120	-	104	-	16	-	96.26
ME Mechanical (Design Engg)	2014-15	NA*	18		16		2		66.66
	2013-14		18		16		2		31.25
	2012-13		17		14		3		11.00
	2011-12		17		17		0		11.11

M=Male F=Female

NA \*- Admission to first year and direct second year is given by DTE through centralised admission process (CAP) rounds.

## 27. Diversity of Students

Name of the Course	Name of the Course & year	Year	% of Maharashtra State Students	% of other State Students	% of Students from Abroad
Mechanical Engineering	2014-15	II	99.53	0.47	--
		III	100	--	--
		IV	100	--	--
	2013-14	II	100	--	--
		III	100	--	--
		IV	98.33	1.67	--
	2012-13	II	100	--	--
		III	98.05	1.95	--
		IV	98.02	1.98	--
	2011-12	II	99.54	0.46	--
		III	98.97	1.03	--
		IV	98.14	1.86	--
	2010-11	II	98.09	1.91	--
		III	98.14	1.86	--
		IV	98.13	1.87	--

## 28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil services, Defence services etc?

Name of the Competitive Examinations	2014-15	2013-14	2012-13	2011-12	2010-11	Total
GATE	7	13	5	4	3	32
MBA	1	-	-	1	1	3

<b>Civil services</b>	-	-	2	2	2	6
<b>Defence services</b>	1	-	1	-	-	2
<b>GRE</b>	1	-	-	-	-	1
<b>Merchant Navy</b>	1	-	-	-	-	1

### 29. Student Progression

Student Progression		Against % enrolled
UG to PG		15-20%
PG to M. Phil.		NA
PG to Ph.D.		2-3%
PhD –Post .Doc		0.5%
Employed	On Campus	15-30%
	Off Campus	30-40%
Entrepreneurship/ Self-Employment		2-6%

### 30. Details of Infrastructural facilities :

#### a) Central Library

Sr. No.	Descriptions	Quantity in Numbers	
1	Books for students circulation	Titles	2373
		Volumes	8128
2	Department Library for Reference	Titles	759
		Volumes	759
3	Technical Journals	National	11
		e-Journals	49
4	Technical Magazines Subscribed	1	
5	News Papers	14	
6	Educational CDs (CBTs)	590	
7	NPTEL Videos	117	
8	Bound Volumes	418	
9	Xerox Books	197	
10	ARAI Library, Pune Educational Membership	3 Cards	

b) Internet facilities for Staff & Students

Sr. No.	Descriptions	Quantity in Numbers
1	Computers	145
2	Computer with Internet Facilities	145
3	Bandwidth	50 Mbps 1:1 leased line with secured 1 Gbps
4	Network Facilities for Computers	145
5	LCD Projectors	7
6	Printers	3
7	Scanner	3

c) Class rooms with ICT facility

Sr. No	Descriptions	Number of Rooms
1	Class room with ICT Facilities	6
2	Seminar Hall with ICT Facilities	1

• Laboratories for UG and PG:

Sr. No.	Name of the Laboratory For UG Course	Students Capacity / Batch	Carpet Area in SQ.M	Major Equipment
1	CAD/CAM/CAE Lab	18-25	170.00	XLTURN PC CNC Machine, CATIA V5R21, ANSYS 14.5
2	Metrology and Quality Control	18-25	70.00	3-D CMM Machine, Profile Projector Metz-801A, Exp. Set Up for X Bar etc
3	Refrigeration and Air Conditioning	18-25	70.00	Refrigeration Test Rig, Ice Plant Test Rig, Heat Pump Test Rig, Air Conditioning Test Rig
4	Testing and Measurement	18-25	66.00	MAT Lab Soft, Flow Measurement Trainer (Turbine-Water)

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5	Theory of Machine	18-25	90.00	Vibration Lab., Balancing of Reciprocating Masses, Universal Governor
6	Metallurgy	18-25	80.00	Inverted Trinocular Microscope With Accessories, Inverted Microscope With LCD Screen
7	Machine Shop	18-25	170.00	Lathe Machine, Milling Machine, Surface Grinder
8	I. C. Engine	18-25	67.22	Computerised VCR Engine Set up, Computerisation of Diesel Engine
9	Mechatronics	18-25	66.00	6 Axis Robo, PLC Trg Kit
10	Applied Thermodynamics	18-25	80.00	Std. Grease Penetrometer, Carbon Residue Apparatus, Aniline Point Apparatus
11	Fluid and Turbo Machinery	18-25	90.00	Francis Turbine, Kaplan Turbine, Centrifugal Test Rig,
12	P. G. Research Lab	12	66.00	FFT Analyzer with Vibration Exciter, Diffused Light Polariscope,

**31. Number of students receiving financial assistance from college, university, government or other agencies**

Sr No	Category	2014-15	2013-14	2012-13	2011-12	2010-11
1	SC	93	87	72	57	42
2	ST	---	---	---	---	---
3	VJNT	73	70	60	46	32
4	SBC	25	25	26	21	17

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5	OBC	117	125	111	83	60
6	STC	15	19	23	29	22
7	PTC	19	22	21	15	9
8	MINORITY	2	-	-	2	3
Total		344	348	313	253	185

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

Academic Year	Special Lectures Workshops Seminar	Title	Date	External Experts
2014-2015	Special Lectures	GATE Examination	14/1/2015	Shri Mansing Lingrus and team
2014-2015	Special Lectures	GATE Examination	20/1/2015	Shri Mandar Deshpande, Koplhapur
2014-2015	Associative activity	PAN CARD Camp	22/1/2015	Shri Yadhav
2014-2015	Workshop	Autostroke 2k15	6-9/2/2015	Codex Design in Association with IIT, Delhi
2014-2015	Workshop	Supply Chain Management	9-10/2/2015	Shri Mahesh Bal, Bosch India Ltd; Pune
2014-2015	Associative activity	Interaction session of Campus selected student	21/2/2015	Shailesh Jadhav (TCS), Ashitosh Shedage (B.V. Group), Vibhushan Jadhav (TICB), Akshay Kumbhar (TICB)
2014-2015	Special Lectures	Current Scenario in Power Sector	24/2/2015	Shri. Rajaram Lokhande (Officer on Special Duty, Urja 4)
2014-2015	Workshop	META Botics and Robotics	28/2/2015 1/3/2015	Mr. AkashKumar Wisdom Ware Technology, New Delhi



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2014-2015	Special Lectures	PLC and Automation	3-7/3/2015	Mr. Sanjay P. Gawade, Nasik
2014-2015	Special Lectures	Competitive Examinations	29/6/2014	Mr. Raju Kawale, Warananagar
2014-2015	Special Lectures	CAD/CAM Techniques used in Industries	12/8/2014	Mr. Tushar Gulbane, Pune
2014-2015	Special Lectures	PLC and Automation	13/8/2014	Mr. Sanjay P. Gawade, Nasik
2014-2015	Special Lectures	Energy Conservation and Energy Management	18/8/2014	Mr. Sanjay P. Gawade, Nasik
2014-2015	Workshop	SKF Bearings	1/10/2014	Shri Amit Fadake, Shri Rajesh Tahasildar, and team, Amod Kulkarni, SKF Pune
2013-2014	Special Lectures	Competitive Examinations	16/1/2014	Mr. Mandar Deshpande, Marketing manager GATE Forum, Kolhapur
2013-2014	Special Lectures	Advances in Mechanical Engineering	30/1/2014	Shri. Suhas Gadekar, Prolific Systems and Technologies Pvt. Ltd, Pune.
2013-2014	Special Lectures	Micro Combustor & its Applications	17/2/2014	Dr. D.P.Mishra, Professor in Department of Aerospace engineering, IIT Kanpur
2013-2014	Special Lectures	Opportunities for Mechanical Engineering students	30/7/2013	Mr. Menash Elijah, Kaustub Panase, Karan Kamble from I-GLOBAL Solution, Pune

2013-2014	Special Lectures	Creativity awareness among the students	31/7/2013	Prof. C. P. Murgudkar, Kolhapur
2013-2014	Training Program	Software training program on Pro-E & Hypermesh	16/9/2013	Mr. Tushar Gulhane, Mr. Alok Kumar, I-Global, Pune
2012-2013	Special Lectures	Training and automation using CAD / CAM / CAE	14/1/2013	Mr. Prasann Joshi, Mr. Arvind Shiralkar, Manager CAD/CAM GURU from Pune
2012-2013	Special Lectures	Innovative Techniques	29/1/2013	Prof. B.D.Kelkar, Director of M/s. Educational and Engineering Equipments (EEE), Pune
2012-2013	Special Lectures	Competitive examinations	1/3/2013	Mr. Mandar Deshpande, Marketing manager GATE Forum, Kolhapur
2012-2013	Special Lectures	Energy Management and Audit.	4/9/2012	Mr. Ashok Narayan Buva, Kolhapur
2012-2013	Special Lectures	Youth and Today's India	12/9/2012	Mr. Sanjay Gulbani, Teacher, art Of Living, Pune
2011-2012	Seminar	Road safety program	13/1/2012	Mr. Santosh Katkar, Inspector, RTO Dept. Kolhapur
2011-2012	Special Lectures	Present Industrial scenrio	3/2/2012	Mr. Ashok Narayan Buva, Kolhapur
2011-2012	Workshop	National level I robotics workshop	4-5 /10/2011	I-Robotics, Pune

2010-2011	Special Lectures	Energy and Industrial scenrio	15/1/2011	Mr. Ashok Narayan Buva, Kolhapur
2010-2011	Workshop	Entrepreneurship and Development Program	15-17 /3/2011	Mr. Sandip Salokhe, Mr. Basavraj Awati, MITCON, Kolhapur
2010-2011	Special Lectures	Advance Machining Techniques	20/9/2010	Dr. Sachin Kore, Asso. Prof., Dept. Of Mechanical engg., IIT Guwahati
2010-2011	Special Lectures	Finite Element Analysis by using ANSYS 11	5/10/2010	Mr. Samir Latkar, Technical Head, IFS Academy, Pune
2010-2011	Workshop	Training Program on WITNESS	25-27 /10/2010	Mr. Milind Deshpande, India Soft Technologies Pvt. Ltd., Pune

### 33. Teaching methods adopted to improve student learning :

Sr. No.	Facility	Details	Reasons for creating the facility	Area in which students are expected to have enhance learning
1	Virtual Lab	Demonstration of experiments virtually	For better understanding of concepts through animation	1. Fluid Mechanics. 2. Mechatronics. 3. Control Engineering. 4. Vibrations. 5. Manufacturing Engineering. 6. Theory of Machines.
2	Software	AutoCAD, ANSYS, CATIA V5, SolidWorks, MATLAB, Witness,	CAD drawing, 3D Solid Modelling, Structural and thermal analysis,	1. Industrial Fluid Power. 2. CAD/CAM. 3. Finite Element Analysis. 4. Control Engineering.

			Production Management, Analysis of control systems, Pneumatic and Hydraulic systems	5. Production Management.
3	Charts and Models	3 Axis Robot, Coordinate Measuring Machine, Models of Gear bearing and various mechanisms, Test rigs for Refrigeration and air conditioning, Cut section models of IC Engines and its systems.	Easy demonstration with actual system, better understanding of working of systems, highlighting specific practical applications	1. Theory of Machines. 2. Refrigeration and air conditioning. 3. Auto Engineering. 4. Robotics. 5. Metrology and Quality Control.
4	E-learning	Online journals and NPTEL videos	To make the students aware about the research studies, To have expert lectures from various National and International experts. To create research attitude among students.	All subjects
5	MOODLE Facility	LAN based MOODLE facility available in the campus.	1. To give assignments, conduct quizzes, 2. Question banks 3. To display study materials, model answers to students	1. All subjects 2. University theory exams 3. For Campus Drive tests

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities :**

<b>Sr. No</b>	<b>Nature of Service</b>	<b>Date</b>
1	Cleaning of college Campus	05 <sup>th</sup> Feb. 2015
2	Celebration of Republic day	26 <sup>th</sup> Jan. 2015
3	Plastic Ban Campaign Rally in Padali	18 <sup>th</sup> Jan. 2015
4	Cleaning Play Ground	01 <sup>st</sup> Jan. 2015
5	Alley is prepared to water the plants in college campus	30 <sup>th</sup> Oct. 2014
6	Tree Plantation in Padali Graveyard	16 <sup>th</sup> Oct. 2014
7	Pit filling on road in Padali Village	10 <sup>th</sup> Oct. 2014
8	Social Rally	04 <sup>th</sup> Oct. 2014
9	Traditional Day Celebration	02 <sup>nd</sup> Oct. 2014
10	Hind Ratna Blood bank, New Pargaon, Kolhapur	5 <sup>th</sup> Sep. 2014
11	Cleaning Program of Runnel near Padali	27 <sup>th</sup> Spt. 2014
12	NSS day celebration	24 <sup>th</sup> Spt. 2014
13	300 Pits were dug for Tree Plantation in Padali Graveyard.	16 <sup>th</sup> Spt. 2014
14	Blood Donation Camp	05 <sup>th</sup> Spt. 2014
15	Cleaning of Graveyard in padali village	27 <sup>th</sup> Aug. 2014
16	Cleaning around Hostel	16 <sup>th</sup> Aug. 2014
17	Independence day celebration	15 <sup>th</sup> Aug. 2014
18	Gram Swachatha Abhiyan in Padali	05 <sup>th</sup> Aug. 2014
19	Health Awareness Rally in Padali	30 <sup>th</sup> July 2014
20	Cleaning Play ground	24 <sup>th</sup> July 2014
21	Cleaning of College Campus and Inaugural of NSS	20 <sup>th</sup> July 2014
22	Celebration of Republic day	26 <sup>th</sup> Jan. 2014
23	Clean and Ram or Flaten for Lawn Land near Gram Panchayat Office Jakhale	20 <sup>th</sup> Jan. 2014
24	Cleaning of College Campus	01 <sup>st</sup> Jan. 2014
25	Awareness Rally on for Voting/Polling in Warananagar	28 <sup>th</sup> Oct. 2013
26	Weeds Around Trees in college campus was removed	21 <sup>st</sup> Oct. 2013

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27	Campaigning Rally on Plastic Ban in Jakhale Village	14 <sup>th</sup> Oct. 2013
28	Campaigning Rally on Jakhale on Swachhatha Abhiyan	10 <sup>th</sup> Oct. 2013
29	Campaigning Rally organizes Save girl child;save fuel; Tree Plantation	04 <sup>th</sup> Oct. 2013
30	Awareness Rally(Pani Adva-Pani Girva) conducted from Warananagar to Kodoli	01 <sup>st</sup> Oct. 2013
31	NSS Day Celebration	26 <sup>th</sup> Spt. 2013
32	Alley prepared to water to plants in college campus	16 <sup>th</sup> Spt. 2013
33	Cleaning Play ground	06 <sup>th</sup> Spt. 2013
34	Mahatama Gandhi Blood bank, New Pargaon, Kolhapur	5 <sup>th</sup> Sep. 2013
35	Blood Donation Camp	05 <sup>th</sup> Spt. 2013
36	Health and Cleaness rally in Jakhale Village	30 <sup>th</sup> Aug. 2013
37	Celebration of Independence Day	15 <sup>th</sup> Aug. 2013
38	Weeds Removal Program in hostel Campus	12 <sup>th</sup> Aug. 2013
39	Tree Plantation was done in Jakhale	03 <sup>rd</sup> Aug. 2013
40	Pits filled with Soil in Jakhale Pastureland for tree Plantation	30 <sup>th</sup> July 2013
41	Pits were Dugg in Jakhale Pastureland for Tree Plantation	19 <sup>th</sup> July 2013
42	Cleaning in Jakhale Town	15 <sup>th</sup> July 2013
43	Cleaning of College Campus and Inaugural of NSS	24 <sup>th</sup> July 2013
44	Mahatama Gandhi Blood bank, New Pargaon, Kolhapur	5 <sup>th</sup> Sep 2012
45	Mahatama Gandhi Blood bank, New Pargaon, Kolhapur	17 <sup>th</sup> March 2012
46	Blood Donation camp	17 <sup>th</sup> March 2012
47	Plastic Ban Campaign in Jakhale	01 <sup>st</sup> March 2012
48	Free Health check up program	25 <sup>th</sup> Feb. 2012
49	Guest Lecture on “Women empowerment” Prof.Preethi Shinde	15 <sup>th</sup> Feb. 2012

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50	Celebration of Republic day	26 <sup>th</sup> Jan. 2012
51	Soil filled in Pits near Pokhale road for tree plantation	20 <sup>th</sup> Jan. 2012
52	Training and Demonstration on (Disaster Manage ment for primary school children at Ambavade School)	04 <sup>th</sup> Jan. 2012
53	Participation in Dnyana Jyoth Rally on the Occasion of Shivaji University Festival	14 <sup>th</sup> Nov. 2011
54	College Play Ground Cleaning	30 <sup>th</sup> Oct. 2011
55	Weeds Removal Program in Pokhale Road	19 <sup>th</sup> Oct. 2011
56	Gram Swachhatha Abhiyan in Pokhale	04 <sup>th</sup> Oct. 2011
57	NSS day Celebration and guest lecture by Prof.S.B.Shirke on important of NSS	26 <sup>th</sup> Spt. 2011
58	Road Side weeds removed in Jakhale village	20 <sup>th</sup> Spt. 2011
59	Alley Were Preparation in Pokhale Kadoli Road for Trees	13 <sup>th</sup> Spt. 2011
60	Campaigning Save Girl a Child in Jakhale Village	09 <sup>th</sup> Spt. 2011
61	Cleaning in Mechanical and Civil Department	30 <sup>th</sup> Aug. 2011
62	Independence Day Celebration	15 <sup>th</sup> Aug. 2011
63	Alley were preparation in Pokhale Pasture Land	09 <sup>th</sup> Aug. 2011
64	Gram Swachhatha Abhiyan in Jakhale	02 <sup>nd</sup> Aug. 2011
65	Bushes and Weeds Cleaning in Pokhale Pasture Land	25 <sup>th</sup> July 2011
66	Cleaning of College Campus	12 <sup>th</sup> July 2011
67	Mahatama Gandhi Blood bank, New Pargaon, Kolhapur	5 <sup>th</sup> Spt. 2010

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### **35. SWOC analysis of the department and Future plans**

#### **Strengths:**

- Effective teaching learning process
- Young, qualified and devoted faculty
- Consistently good academic performance
- Laboratories with latest equipment and software.
- Exhaustive co-curricular and extra-curricular activities
- Excellent interactions with industries
- Strong alumni linkage
- Active MESA students' association.

#### **Weakness:**

- Inadequate research and consultancy.
- Students from vernacular background.

#### **Opportunities:**

- Due to government policy like Make in India there may be boost in Industry growth.
- Government thrust on Entrepreneurship development.
- Improved facilities for research and development.
- Increased use of ICT in Technical Education.

#### **Challenges:**

- Recruitment of Highly Qualified Faculty.
- Uncontrolled growth in Technical institutes.
- Attract meritorious students at entry level and GATE students at PG programme.
- Long spell of recession in world economy affecting placement.

#### **Future Plans:**

- To start PG programmes in Thermal and Production Engineering.
- To collaborate and sign MOUs with MNCs and renowned institutes.
- To develop laboratories in collaboration with industries.
- To establish CNC centre in machine shop.
- To provide short term technical courses for students, faculty and industry personnel.



**Department  
of  
Computer Science and  
Engineering**

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## Evaluative Report of the Department

1. **Name of the Department:** Computer Science and Engineering
2. **Year of Establishment:** 1999-2000
3. **Names of Programmes / Courses offered:**

Sr.No.	Engineering / Technology			Year of Started
1	UG	BE	Computer Science and Engineering	1999 - 2000

4. **Names of Interdisciplinary courses and the departments / units/ subjects involved**

Sr.No	Subjects	Semester	Department Involved
1	Applied Mathematics	III	Applied Sciences
2	Soft Skills	III	Applied Sciences
3	Business English	V	Applied Sciences

5. **Annual /semester/choice based credit system (programme wise) :**

Sr.No.	Engineering /Technology			Annual /Semester Credit System
1	UG	BE	Computer Science and Engineering	Semester System

6. **Participation of the department in the courses offered by other departments :**

Sr.No.	Subjects	Semester/ Courses	Department
1	Fundamentals of Electronics and Computers	FE Sem-I/II	Applied Sciences

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

Sr.No	Courses Offered	Industry/University
1	Business Intelligence	TCS-Campus Connect
2	Business Intelligence	Infosys-Campus Connect
3	Introduction to Mainframe	Infosys-Campus Connect

4	Soft Skills	Infosys
5	ASP.NET, Programming Languages	Microsoft IT Academy
6	Storage Network	EMC <sup>2</sup> , Pune
7	Redhat Linux System Administration	RedHat Systems Pvt. Ltd, Mumbai
8	DBMS and JAVA programming	Oracle India Pvt. Ltd, Bangaluru

**8. Details of courses/programmes discontinued (if any) with reasons:**  
- NIL-

**9. Number of Teaching posts :**

Cadre Wise Teaching Faculty	2014-15	
	S	F
Professor	3	0
Associate Professor	8	1
Assistant Professor	28	38

S – Sanctioned

F – Filled

**10. Faculty profile with name, qualification, designation, specialization : 2014-15**

UG - B.E – Computer science and Engineering

Sr.No	Name	Qualification	Designation	Specialization	No. of Years of Experience			No. of Ph.D. Students guided for the last 4 years
					Industry	Teaching	Total	
1	Prof.A.G. Patil	M.E (CSE)	Asst. Prof. & Head	Network Engg.	0	14	14	NIL
2	Prof.A.S.Phalle	M.Tech (CSE)	Asso . Prof.	Advance Computer Architecture	0	21	21	NIL
3	Prof.D.B. Mirajkar	M.Tech. CSE, Ph.D (Regd.)	Asst. Prof	CSE	0	12.5	12.5	NIL

4	Prof.R. B. Patil	M.Tech (CST) Ph.D (Regd.)	Asst. Prof.	Computer Algorithms	0	13.5	13.5	NIL
5	Prof. K.K.Awale	M.E. (CSE)	Asst. Prof.	CSE	0	10	10	NIL
6	Prof. G.V. Patil	M.Tech (CST) Ph.D (Regd.)	Asst. Prof.	Grid Technology	1	7.5	8.5	NIL
7	Prof. S.R. Shetake	BE(IT) M.Tech (CSE)	Asst. Prof.	Theory of Computati ons	1	8	9	NIL
8	Prof.B.A.Choug ule	BE(IS) M.Tech (CSE)	Asst. Prof.	Micro- processor	0	5	5	NIL
9	Prof. M.R. Hudagi	BE(CSE) M.Tech (CSE)	Asst. Prof.	System Programmi ng	1	3.5	4.5	NIL
10	Prof. S.A. Urabinahatti	BE(CSE) M.Tech (CSE)	Asst. Prof.	Informatio n Security	0	3.5	3.5	NIL
11	Prof. B.B.Somwanshi	BE(CSE) M.Tech (CSE)	Asst. Prof.	Computer Networkin g	1.8	4	5.8	NIL
12	Prof. H.M. Kelur	BE(CSE) M.Tech (CSE)	Asst. Prof.	Programmi ng Languages	0	2.5	2.5	NIL
13	Prof. R.C. Shikkeri	BE(CSE) M.Tech (CSE)	Asst. Prof.	Database Engg.	0	3.5	3.5	NIL
14	Prof.R.G. Hiregoudar	BE(CSE) M.Tech (CNE)	Asst. Prof.	Network Engg.	0	3.5	3.5	NIL
15	Prof. K.N. Kamble	BE(IT) M.Tech (CST)	Asst. Prof.	Image Processing	0	6	6	NIL
16	Prof. V.B. Biradar	BE(CSE) M.Tech (CSE)	Asst. Prof.	Computer Organizati on	0	3.5	3.5	NIL
17	Prof. S.V.Vambase	BE(CSE) M.Tech (CNE)	Asst. Prof.	Wireless Networks	0	3.5	3.5	NIL
18	Prof. A.T. Sonale	BE(CSE) M.Tech (CST)	Asst. Prof.	Automata Theory	0	7	7	NIL

19	Prof. J. N. Mali	BE(CSE) M.Tech (CS)	Asst. Prof.	Operating System	0	6	6	NIL
20	Prof.I. I. Tamboli	BE(CSE) M.E.(CE)	Asst. Prof.	Computer Algorithms	3	6	9	NIL
21	Prof.S. S. Patil	BE(IT) M.Tech (CS)	Asst. Prof.	Computer Graphics	0	5.5	5.5	NIL
22	Prof. S. S. Matsagar	BE(CSE) M.Tech (CS)	Asst. Prof.	Data Structures	0	5	5	NIL
23	Prof. G. G. Machhale	B.E (CSE) M.E (IT)	Asst. Prof.	Programmi ng Language	1	2.5	3.5	NIL
24	Prof. A.V. Surve	BE(CSE) M.Tech (CSE)	Asst. Prof.	Cloud Computing	0	1.5	1.5	NIL
25	Prof. T. V. Deokar	BE(CSE) M.Tech (CSE)	Asst. Prof.	Grid Technology	0	1.5	1.5	NIL
26	Prof. P. R. Kushire	BE(CSE) M.Tech (CSE)	Asst. Prof.	Data Communic ation	0	1.5	1.5	NIL
27	Prof. M.S. More	BE(CSE) M.E. CE	Asst. Prof.	Advance Database System	0	5.5	5.5	NIL
28	Prof. C.A. Kuri	BE(CSE) M.Tech (CSE)	Asst. Prof.	Mainframe	0	1	1	NIL
29	Prof. S.A. Kotmire	BE(CSE) M.Tech (CS)	Asst. Prof.	Software Testing & Engg.	0	4.5	4.5	NIL
30	Prof. N. N. Bhosale	BE(CSE) M.Tech (CSE)	Asst. Prof.	Informatio n Security	0	0.5	0.5	NIL
31	Prof. Y.A. Sale	BE(CSE) M.Tech (CSE)	Asst. Prof.	Computer Networks	0	0.5	0.5	NIL
32	Prof. H. R. Karande	BE(CSE) M.E(CSE)	Asst. Prof.	Database Engg.	0	1	1	NIL
33	Prof.V. C. Patil	BE(CSE) M.E(CE)	Asst. Prof.	Mobile Computing	0	4.5	4.5	NIL
34	Prof. T. P. Patil	BE(CSE) M.E (CSE)*	Asst. Prof.	Distributed System	1	5	6	NIL

35	Prof.S. B. Patil	BE(CSE) M.E (CSE)*	Asst. Prof.	Storage Networks	0	3.5	3.5	NIL
36	Prof. N. J. Ghatge	BE(CSE) M.E (CSE)*	Asst. Prof.	Programming Languages	1	3.5	4.5	NIL
37	Prof. V. S. Parit	BE(CSE) M.E (CSE)*	Asst. Prof.	Business Intelligence System	0	3.5	3.5	NIL
38	Prof.S.A. Patil	B.E (CSE) M.E (CNE)	Asst. Prof.	Software Engg.	0	3	3	NIL
39	Prof.P. S.Arage	BE(CSE) M.E (CSE)*	Asst. Prof.	Automata Theory	0	6	6	NIL

**11. List of senior visiting faculty : NIL**

Sr. No	Name	Address	Program	Course
NIL				

**12. Percentage of lectures delivered and practical classes handled by temporary faculty :**

Sr. No	Faculty Name	Semester	Subject	Lecture / Practical
NIL				

**13. Student –Teacher Ratio - 15:1**

UG - B.E – Computer science and Engineering

Sr. No	Academic Year	Sanctioned Intake	Faculty Strength	Student –Teacher Ratio
1	2014-15	540	36	15:1

**14. Number of academic support staff (technical) and administrative staff :**

Description	2014-15	
	S	F
Technical Support Staff	8	8
Administrative Staff	1	1

S – Sanctioned

F – Filled

**15. Qualifications of teaching faculty with DSc /D.Litt / Ph.D / M.Phil / PG :**

Qualification	Total
DSc	NA
D.Litt	NA
Ph.D	-
Ph.D (Registered)	3
PG	36

**16. Number of faculty with ongoing projects from National / International funding agencies and grants received :**

Sr. No.	Faculty Name	Title of the Project	Name of the Funding Agencies	Grants received Rs..-	Status
1	Prof. A. G. Patil	Setup of Multimedia and simulation laboratory as an aid for advanced practices in multimedia technology for teaching learning process	AICTE, New Delhi	5,76,000	Ongoing

**17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. And total grants received :**

Sr. No.	Title of the Project	Name of the Funding Agencies	Grants received Rs..-	Status
1	Spoken Tutorial	IIT-Bombay, NME-ICT	55,00,000	State level second rank with 5 star

2	Setup of Multimedia and simulation laboratory as an aid for advanced practices in multimedia technology for teaching learning process	AICTE, New Delhi	5,76,000	Ongoing
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**18. Research Centre. Facilities recognized by the University :**

Sr.No	Description	Recognized University	References
1	Akash Lab	IIT-Bombay	Ongoing

**19. Publications : Faculty**

- Paper Publications

Sr. No	Name of the Faculty	Publications				Total
		NJ	IJ	NC	IC	
1	Prof. A.G. Patil	3	1	-	-	4
2	Prof. D.B. Mirajkar	-	1	6	--	7
3	Prof. R.B. Patil	-	-	4	1	5
4	Prof. K.K. Awale	-	3	5	--	8
5	Prof. G.V. Patil	-	-	-	1	1
6	Prof. M. R. Hudagi	-	4	3	-	7
7	Prof. S.A. Urabinahatti	-	5	3	-	8
8	Prof. R. C. Shikkeri	-	-	1	2	3
9	Prof. R.G. Hiregoudar	-	1	-	-	1
10	Prof. K. N. Kamble	-	-	1	1	2
11	Prof. S. R. Shetake	-	-	-	-	-
12	Prof. V.B.Biradar	-	1	-	-	1
13	Prof. A. T. Sonale	-	-	1	1	2
14	Prof. J. N. Mali	1	-	-	-	1
15	Prof. S. S. Matsagar	1	-	1	1	3
16	Prof. T. P. Patil	3	-	-	-	3



17	Prof. V. C. Patil	-	2	-	1	3
18	Prof. N.J. Ghatge		2	1	-	3
19	Prof. V. S. Parit	1	-	-	-	1
20	Prof. S. A. Patil	-	1	-	-	1
21	Prof. G. G. Machhale	-	1	1	-	2
22	Prof. A. V. Surve	-	2	-	-	2
23	Prof. T. V. Deokar	-	-	-	1	1
24	Prof. P. R. Kushire	-	1	-	-	1
25	Prof. P. N. Patil	-	1	-	-	1
26	Prof. M. S. More	-	2	1	1	4
27	Prof. C.A. Kuri	-	1	-	-	1
28	Prof. S. A. Kotmire	-	1	-	-	1
29	Prof. I.I. Tamboli	1	4	-	-	5

NJ- National Journal

IJ – International Journal

NC- National Conference IC – International Conference

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**

Chapters in Book – **YES**

Sr.No.	Name of the Faculty	Academic Year	Book Name	Publisher
1	Prof.A.G.Patil	2015-16	Project Management	Tata McGraw Hill

Details information for Citation Index, SNIP, SJR etc - **NIL**

Books with ISBN/ ISSN numbers with details of publisher: -**NIL**

## 20. Areas of consultancy and income generated :

Extension of infrastructure services with requirement agency.

Sr. No	Year	Title	Income
1	2014-2015	IBPS PO exam	Rs. 1,46,570 /-
		CAT exam	Rs. 34,000 /-
		IBPS Clerical exam	Rs. 1,35,000 /-

		IIT GATE 2015	Rs. 3,10,430 /-
		JEE Mains	Rs. 5,600 /-
		CMAT 2015	Rs. 1,82,000 /-
		RRB exam	Rs. 3,01,250 /-
		MSEB – Mahavitaran exam	Rs. 2,32,000 /-
2	2013-14	GATE 2014	Rs. 3,56,000 /-
3	2012-13	GATE 2013	Rs. 2,86,000 /-

## 21. Faculty as members in

a) National Committees

b) International Committees

Sr.No	Name of Staff	Membership in Professional Bodies	
		National	International
1	Prof. A. G. Patil	ISTE (LM) 35065, CSI	IUCEE/ IEEE
2	Prof. A. S. Phalle	ISTE(LM)	-
3	Prof. D.B. Mirajkar	ISTE(LM) 53555	
4	Prof. R. B. Patil	ISTE(LM) 69943	
5	Prof. K. K. Awale	ISTE(LM) 69945	
6	Prof. G. V. Patil	ISTE(LM)	-
7	Prof. B. A. Chougule	ISTE(LM),CSI 98591	-
8	Prof. M. R. Hudagi	ISTE(LM),CSI 98590	-
9	Prof. S. A. Urabinahatti	ISTE(LM) 98589	-
10	Prof. B. B. Somwanshi	ISTE(LM)	-
11	Prof. H .M. Kelur	ISTE(LM) 98594	-
12	Prof. R. C. Shikkeri	STE(LM) 98595	-
13	Prof. R. G. Hiregoudar	ISTE(LM)	-
14	Prof. K. N. Kamble	ISTE(LM) 98593	-
15	Prof. S. R. Shetake	ISTE(LM) 98588	-
16	Prof. V. B. Biradar	ISTE(LM) 98640	-
17	Prof. A. T. Sonale	ISTE(LM) 98596	-
18	Prof. J. N. Mali	ISTE(LM) 98598	-
19	Prof. S. S. Matsagar	ISTE(LM) 98599	-
20	Prof. T. P. Patil	ISTE(LM) 98600	-
21	Prof. V. C. Patil	ISTE(LM) 98636	-
22	Prof. S. B. Patil	ISTE(LM) 98611	-
23	Prof. N. J. Ghatge	ISTE(LM) 98604	-

24	Prof. V. S. Parit	ISTE(LM) 98610	-
25	Prof. S. A. Patil	ISTE(LM),CSI	-
26	Prof. G. G. Machhale	ISTE(LM) 98605	-
27	Prof. S. S. Patil	ISTE(LM) 98597	-
28	Prof. A. V. Surve	ISTE(LM) 98637	-
29	Prof. T. V. Deokar	ISTE(LM) 98609	-
30	Prof. P. R. Kushire	ISTE(LM) 98608	-

**c ) Editorial Boards:- NIL**

**22. Student projects**

- Percentage of students who have done in-house projects including inter departmental.
- Percentage of students placed for projects in organizations outside the institution.

Courses	2010-11		2011-12		2012-13		2013-14		2014-15	
	I	O	I	O	I	O	I	O	I	O
UG	31	-	35	1	38	-	37	-	48	7

I - Inter Departmental

O - Research Laboratories / Industry / Other Agencies

**23. Awards / Recognitions received by faculty and students**

Description	Awards / Recognitions Received in	2014-15		2013-14		2012-13		2011-12		Total	
		A	R	A	R	A	R	A	R	A	R
Faculty	Curricular	1	-	3	-	1	-	1	-	6	-
Students	Curricular	11	-	6	1	1	-	2	-	20	01
	Co-Curricular	8	-	1	-	-	-	-	-	9	-

**A) Faculty Award**

Sr. No.	Name of Faculty	Awards / Recognition
1	Prof. A. S. Phalle	INSPIRE – The Infosys Campus Connect Faculty Partnership Model
2	Prof. B. A. Chougule	INSPIRE – The Infosys Campus Connect Faculty Partnership Model
3	Prof. P.D.Salokhe	“STRECH” Award- Syntel Value award
4	Prof. V.B.Biradar	Quality circle forum of India , Pune Chapter

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5	Prof. A.G.Patil	IBM Rational Certified Functional Tester
6	Prof. A.G.Patil	ISTE Best Project Award in 43 <sup>rd</sup> National Conventional

**B) Student Award**

Sr. No.	Year	Name of Student	Award
1	2013-14	Vinayak Kumbhar	Inter Zonal Mallkhamb runner up Championship at TKIET, Warananagar
2	2012-13	Snehal Patil	Winner in Kho-Kho(Girls) in Lead College Event at TKIET, Warananagar
3	2012-13	Sushant Kunekar	All India 39 <sup>th</sup> Rank in the intra collegiate level of Campus2Corporate 2013
4	2012-13	Sayali Mane	First Prize in Badminton(Doubles) at TKIET, Warananagar
5	2012-13	Nilesh Sangule	Second Prize in 50m Butterfly Swimming Competition at TKIET, Warananagar
6	2012-13	Nilesh Sangule	Second Prize in 50m Breast Stroke Butterfly Swimming Competition at TKIET, Warananagar
7	2013-14	Sushant Kunekar	4 <sup>th</sup> Rank in West Zone in the Zonal level competition of Campus2Corporate 2013
8	2013-14	Snehal Patil	Runnerup in Kho-Kho(Girls) in Lead College Event at DKTE, Ichalkaranji
9	2013-14	Sushant Kunekar	5 <sup>th</sup> Rank in Maharashtra in the State level competition of Campus2Corporate 2013
10	2013-14	Shital Patil	Cricket Runner up at TKIET, Warananagar
11	2013-14	Praful Nikam	First Prize in Technical Exhibition at TKIET, Warananagar.
12	2013-14	Asmita Patil	Third Prize in Discus Throw in Lead College Sports Event at DKTE, Ichalkaranji
13	2013-14	Sandip Patil	Second Prize in SoftWin under Eureka 2K13 at TKIET, Warananagar

14	2013-14	Asmita Patil	Second Prize in Javelin Throw in Lead College Sports Event at DKTE, Ichalkaranji
15	2013-14	Asmita Patil	Seond Prize Shotput in Lead College Sports Event at TKIET, Warananagar
16	2013-14	Chinmayee Sartaekar	Second Prize in Technical Exhibition at TKIET, Waranananagr
17	2013-14	Rohit Mamidwar	Second Prize in Technical Exhibition at TKIET, Warananagar
18	2013-14	Nilesh Sangule	First Prize in 50m Butterfly Swimming Competition at TKIET, Warananagar
19	2014-15	Nilesh Sangule	2 <sup>nd</sup> Prize in University Zonal Swimming Competition 4 X 200 Free Relay
20	2014-15	Asmita Patil	2 <sup>nd</sup> Prize in Discus Throw in Lead College Sports Event at DKTE, Ichalkaranji
21	2014-15	Asmita Patil	1 <sup>st</sup> Prize in Shotput in Lead College Sports Event at DKTE, Ichalkaranji
22	2014-15	Nilesh Sangule	2 <sup>nd</sup> Prize in University Zonal Swimming Competition 4 X 100 Free Relay
23	2014-15	Vicky Mohite	University Zonal Swimming Competition 4 X 200 Free Relay
24	2014-15	Amit Udale	2 <sup>nd</sup> in University Zonal Swimming Competition 4 X 200 Free Relay
25	2014-15	Amit Udale	3 <sup>rd</sup> in University Zonal Swimming Competition 50Meter Breast Stroke
26	2014-15	Amit Udale	Runner up in 50Meter Breast Stroke in Lead College Sports Event at DKTE, Ichalkaranji
27	2014-15	Reshma Patil	Zonal Level Winner at NMCOE, Peth for National Security Championship
28	2014-15	Jaydev Ingawale	Winner in Kabbadi in Lead College Sports Evebt at DKTE, Ichalkaranji
29	2014-15	Jaydev Ingawale	Winner in Kabbadi in National Level Inter-Engineering Sports Meet SUMMIT's 15 held at MIT,Pune

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30	2014-15	Nikita Birajdar	2 <sup>nd</sup> Prize in Digital India Week Event at TKIET, Warananagar
31	2014-15	Nikita Birajdar	2 <sup>nd</sup> Prize in Extempore Event at TKIET, Warananagar
32	2014-15	Chetan Khivesara	3 <sup>rd</sup> Prize in Techno-Glance at TKIET, Warananagar
33	2014-15	Dhiraj Sutar	3 <sup>rd</sup> Prize in Technical Paper Presentation held in Quest 2K15 at KBP, Satara
34	2014-15	Sandip Patil	2 <sup>nd</sup> Prize in Project Competition under Jidnyasa 2K15 at TKIET, Warananagar

**C) University Rankers :**

Sr. No	Name of Student	Year	Rank
1	Patil Utkarsh Subhash	2012-2013	VI

**D) Paper presentation/ Model competitions Winners :**

1. Tejashree Diwan Secured First prize in National Symposium for Women held in Paper presentation on 6<sup>th</sup> and 7<sup>th</sup> March 2015 held at Shri Vishnu Engg. College Bimavaram A.P.
2. Devdatta Jadhav and Jay Mehta Secured First prize in National Level Technical Symposium paper presentation on 6<sup>th</sup> March 2015 held at AMGOI, Wathar.
3. Shubham Karande and Vinay Ambapkar Secured Second Prize in National level Technical Symposium in Project Competetion on 6<sup>th</sup> /March 2015 held at AMGOI, Wathar.
4. Guruprasad Koli Secured third prize in Techtonic, Sinhgad Karandak 2015 in Shadow Boxing on 2014-15 held at Sinhgad Engg College , Pune.
5. Tejashree Diwan secured first prize in Eureka 2K13 in on 12<sup>nd</sup> Feb 2013 held at TKIET, Warananagar.
6. Tejashree Diwan secured first prize in Eureka 2K14 in Paper Presentation on 20<sup>th</sup> Sept 2014 held at TKIET, Warananagar.
7. Tejashree Diwan secured first prize in Digital India Week on 08<sup>th</sup> July 2015 held at TKIET, Warananagar.
8. Tejashree Diwan secured third prize in Jidyasa 2K15 in on 04<sup>th</sup> April 2015 held at TKIET, Warananagar.

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9. Reshma Walekar secured second prize in Eureka-2K14 in Paper Presentation on 20<sup>th</sup> Sept 2014 held at TKIET, Warananagar.
  10. Nilesh Patil and Mangesh Panchwagh secured Second Prize in Techno-vision event organized on 24<sup>th</sup> Aug 2012 by SEED Infotech Ltd, Pune.
  11. Jay Mehta secured Runner up in Innovision 2K13 in “C Champ” competition held on 16<sup>th</sup> February 2013 at J.J.Magdum College of Engineering, Jaysingpur.
  12. Jay Mehta secured first prize in Project Idea Competition event of ACES on 3<sup>rd</sup> April 2013 at TKIET, Warananagar.
  13. Devdatta Jadhav, Jay Mehta secured first prize in National Level Technical Symposium paper presentation on 6<sup>th</sup> March 2015 held at AMGOI, Wathar.
  14. Chinmayee Sartardekar secured second prize in Eureka 2K15 in paper presentation on 12<sup>th</sup> September 2015 held at TKIET, Warananagar.
  15. Ketaki Divekar secured second prize in Eureka 2K15 in Paper Presentation on 12<sup>th</sup> September 2015 held at TKIET, Warananagar.
  16. Priyanka Powar secured second prize in Jidnyasa 2K15 in Paper Presentation on 4<sup>th</sup> April 2015 held at TKIET, Warananagar.

**24. List of eminent academicians and scientists/ visitors to the department**

Academic Year	Name of the academicians / Scientists	Institution/Industry	Purpose of Visit
2010	Mr.Shailendra Soni	IT Manager SWSSK Warananagar	ACES Inauguration
2011	Mr.Surendra Soni	Fujitsu Inc. Pune	Expert Lecture on recent Technology
2011	Mr.Asif Mulla	Cognizant Pune	Expert Lecture on recent Technology
2011	Mr.Mahendra Jadhav	IBM, Pune	Expert Lecture on recent Technology
2011	Mr.Vinay Gosawi	IBM, Pune	Discover your hidden potential
2012	Mr.N. H. Patil	Secretary Surajya Foundation	Chief guest for Zero One event

2012	Mr.B. D. Suryawanshi	Assist. Prof. AMGOI	Judge for paper presentation for Zero One event
2012	Mr.L. K.Nalawade	News Reporter Sakal Newspaper	Judge for Debate competition for Zero One event
2012	Mrs.S.V.Mahajani	News Reporter Sakal Newspaper	Judge for Marathi Debate competition for Zero One event
2012	Mr.Ashwin Savnur	Manager Ashtavinayak Media and entertainment	Chief guest for Valedictory function
2012	Mrs.Nupur Chavan Mr.Shrikant Jadhav	Ashtavinayak Media and entertainment	Judge for Third eye movie making competition
2012	Mr.Amit Bagwan	Manager Utsav Photo Studio Kodoli	Judge for Photography competition
2012	Mr.Ankur Sinha	HR Generalist at Tata Consultancy Services, India	TCS Campus Preparation
2014	Mr.Ankur Sinha and Mr.Suyog Bhandekar	TCS Pune	ACES Inauguration
2014	Mr.Amol Shirke	TCS Pune	Industry Person Interaction
2015	Mr.Nitant Joshi & Mr.Milind Deshpande	Persistent Pune	Preparation for personal and technical interviews
2015	Mr.Vikrant Pagare	Cubez Technologies Pvt. Ltd. Pune	Opportunities for CSE students in Embedded System
2015	Mrs.Anuradha Kate	PSI Mumbai	Guest Lecture on Women Defence
2015	Mr.Sagar Pise	TCS Pune	Guest Lecture on BigData Hadoop



2015	Mr.Supreet Mangsule	Abuse Technologies	Entrepreneurship opportunities for CSE students
2015	Mr.Girish Pai	HR L&T Pune	Staff Interaction
2015	Mr.Gajendra Vasa	CMD Rocket Engg Pvt. Ltd. Kolhapur	Chief guest for Prize distribution of Jidnyasa 2K15
2015	Mr.Ashok Ghatge	CMD Logicware Technology, Kolhapur	Judge for Project and Industry problem solver competition
2015	Mr.Sandeep Meshram	TPO, COEP, Pune	IUCE Conference
2016	Mr.Sachin Naik	Red Hat Learning Services	Red Hat Awareness Programme

**25. Seminars/ Conferences/ Workshops organized & the source of funding**

Year	Seminars Conferences Workshops	N / I	Title	Date	Funding Agencies
2010	Workshop	S	Workshop on PHP, MySQL and Apache	10 <sup>th</sup> Dec 2010	TKIET under lead College activity
2010	Workshop	S	Aptitude test for BE students	10 <sup>th</sup> July 2010	Chaitanya Infotech Navi Mumbai
2010	Workshop	S	Workshop on Core Java	10 <sup>th</sup> May 2010	SEED Infotech
2010	Workshop	S	Workshop on ASP.NET	10 <sup>th</sup> May 2010	SEED Infotech
2011	Workshop	S	Workshop on Network Essential training	11 <sup>th</sup> Jan 2011	Tech Sangam
2012	Workshop	S	Introduction to Research Methodology	June/July 2012	IIT Bombay
2012	Workshop	S	Aptitude Training to TE Students	June/July 2012	TKIET, Warananagar
2012	Workshop	S	workshop on Campus Placement Preparation on General Aptitude & Softskill	12 <sup>th</sup> Aug 2012	TKIET under lead College activity

2013	Workshop	N	Campus Connect Program	13 <sup>th</sup> Feb 2013	Infosys, Pune
2013	Workshop	S	Workshop on Android Application Development	12 <sup>nd</sup> & 13 <sup>th</sup> Feb 2013	IIT Bombay
2013	Workshop	S	Aptitude Training to TE Students	June/July 2013	TKIET, Warananagar
2013	Workshop	S	English Communication for TE Students	June/July 2013	TKIET, Warananagar
2014	Workshop	S	ISTE Coordinators Workshop on Cyber Security	17 <sup>th</sup> & 21 <sup>st</sup> May 2014	NMEICT, IITB
2014	Workshop	S	ISTE Coordinators Workshop on Computer Networking	5 <sup>th</sup> & 9 <sup>th</sup> May 2014	NMEICT, IITB
2014	Workshop	S	ISTE Coordinators Workshop on Computer Programming	April 21st, 2014 to April 26th, 2014	NMEICT, IITB
2014	Workshop	S	Workshop on Booting	15 <sup>th</sup> Feb 2014	TKIET, Warananagar
2014	Workshop	S	Workshop on Python/PHP/MySQL	14 <sup>th</sup> Feb 2014	IIT,BOMBAY
2014	Workshop	S	Aptitude Training to TE Students	June/July 2014	TKIET, Warananagar
2014	Workshop	S	English Communication for TE Students	June/July 2014	TKIET, Warananagar
2014	Workshop	S	Workshop on Web Technologies	14 <sup>th</sup> Aug 2014	TKIET, Warananagar
2014	Workshop	S	Lead College Training program on Placement Preparation	14 <sup>th</sup> Dec 2014	TKIET under lead College activity
2015	Workshop	N	ISTE STTP on Introduction to Design of Algorithms	25 <sup>th</sup> to 30 <sup>th</sup> May 2015	NMEICT, IITKGP
2015	Workshop	S	TE CSE Syllabus Revision	15 <sup>th</sup> March 2015	Shivaji University, Kolhapur

N – National

I – International

S – Self

## 26. Student profile programme / course wise:

Name Course / Programme	Academic Year	Application Received	Selected	Enrolled		Pass Percentage
				*M	*F	
Computer Science and Engineering	2010-11	NA*	103	54	49	91.53
	2011-12		111	52	59	97.22
	2012-13		121+58 <sup>#</sup>	61+43 <sup>#</sup>	60+15 <sup>#</sup>	92.95
	2013-14		48+37 <sup>#</sup>	22+19 <sup>#</sup>	26+18 <sup>#</sup>	95.89
	2014-15		72+19 <sup>#</sup>	29+16 <sup>#</sup>	43+13 <sup>#</sup>	90.67

**M – Male**

**F – Female**

\* Admission for First Year Engineering (FE) & Direct Second Year Engineering (DSE) is governed by Govt. of Maharashtra, DTE Mumbai through CAP (Centralized Admission Process).

# Indicates Second Shift DSE (Direct Second Year Engg.)

## 27. Diversity of Students

Name of the Course	Academic Year	Year	% of Maharashtra State Students	% of other State Students	% of Students from Abroad
Computer Science and Engineering	2015-16	II	99 %	1 %	-
		III	99 %	1 %	-
		IV	99 %	1 %	-
	2014-15	II	100 %	-	-
		III	99 %	1 %	-
		IV	100 %	-	-
	2013-14	II	98 %	2 %	-
		III	100 %	-	-
		IV	99 %	1 %	-
	2012-13	II	100 %	-	-
		III	99 %	1 %	-
		IV	98 %	2 %	-
	2011-12	II	99 %	1 %	-
		III	98 %	3 %	-
		IV	99 %	2 %	-

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc?**

Sr.No	Examination	No. of Students	Year
1	GATE	3	2014-15
		1	2013-14
		3	2012-13
		1	2011-12
2	Civil Services	1	2013-14
		1	2012-13
		2	2011-12
3	GRE	1	2014-15
		1	2013-14

**29. Student Progression**

Student progression		Against % Enrolled
UG to PG		15 – 20
PG to M.Phil.		-
PG to Ph.D.		-
Ph.D. to Post-Doctoral		-
<b>Employed</b>	Campus selection	35
	Other than campus recruitment	45 – 50
Entrepreneurship /Self-employment		4

**30. Details of Infrastructural facilities :**

• **Central Library**

Sr.No.	Descriptions	Quantity in Numbers	
1	Books for students circulation	Titles	2033
		Volumes	6657
2	Department Library for Reference	Titles	123
		Volumes	154
3	Technical Journals	National	6
		International	6
		e-Journals	1
4	Technical Magazines Subscribed	6	

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5	News Papers	13
6	Educational CDs (CBTs)	1247

• **Internet facilities for Staff & Students**

Sr. No.	Descriptions	Quantity in Numbers
1	Computers	221
2	Computer with Internet Facilities	221
3	Bandwidth	50 Mbps
4	Network Facilities for all Computers	Yes
5	Printers	2
6	Scanner	2
7	Plotter	-
8	LCD Projector	5
9	External DVD	2

• **Class rooms with ICT facility**

Sr.No	Descriptions	Number of Rooms
1	Class room with White Board	5
2	Class room with Projectors	6
3	Class room with Internet Facilities	6
4	Class room with ICT Facilities	6

• **Laboratories for UG and PG:**

Sr.No.	Name of the Laboratory	Lab No.	Carpet Area in SQ.M
1	Network Engineering Lab	LB-CS-01	66.25
2	Programming Language Lab	LB-CS-02	66.06
3	Advance Programming Lab	LB-CS-03	66.06
4	Internet Technology Lab	LB-CS-04	68.79
5	Grid Technology Lab	LB-CS-05	67.79
6	Database Engineering Lab	LB-CS-06	67.14
7	Operating System Lab	LB-CS-07	75.50
8	Web Technology Lab	LB-CS-08	66.00

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9	Software Engineering Lab	LB-CS-09	66.00
10	Microprocessor and Hardware Lab	LB-CS-10	67.79

**31. Number of students receiving financial assistance from college, university, government or other agencies**

Sr.No	Category	2015-16	2014-15	2013-14	2012-13	2011-12
1	SC	48	46	54	56	44
2	ST	-	-	-	-	-
3	VJ/NT	36	53	52	64	56
4	SBC	10	16	24	27	24
5	OBC	71	86	88	104	80
6	Institutional Scholarship	2	3	3	-	-

**32. Details on student enrichment programmes (special lectures / workshops/ seminar) with external experts**

Academic Year	Special Lectures / Workshops / Seminar	Title	Date	External Experts
2010	Workshop	Workshop on PHP, MySQL and Apache	Dec-10	TKIET under lead College activity
2010	Workshop	Aptitude test for BE students	Jul-10	Chaitanya Infotech Navi Mumbai
2010	Workshop	Workshop on Core Java	May-10	Mandar Jog, SEED Infotech
2010	Workshop	Workshop on ASP.NET	May-10	Mandar Jog, SEED Infotech
2011	Workshop	Workshop on Network Essential training	Jan-11	Tech Sangam
2013	Workshop	Campus Connect Program	Feb-13	Anuj Jajoo, Infosys Pune
2014	Workshop	Workshop on Booting	15 <sup>th</sup> Feb 2014	Yogesh Babar, Pune

2013	Workshop	Workshop on Android Application Development	12 <sup>nd</sup> – 13rd Feb 2013	IIT Bombay
2012	Workshop	Aptitude Training to TE Students	June/July 2012	Mr. Sanir Kittur, Kolhapur
2012	Workshop	workshop on Campus Placement Preparation on General Aptitude & Softskill	Aug 2012	Mrs. Nandini Ghosh (TKIET under lead College activity)
2013	Workshop	Aptitude Training to TE Students	June/ July 2013	Mr. Sanir Kittur, Kolhapur
2013	Workshop	English Communication for TE Students	June/July 2013	Ms. Sneha Pai, Kolhapur
2014	Workshop	One day workshop on Python/PHP/Mysql for B.E Students	Feb 2014	IIT, Bombay
2014	Workshop	Aptitude Training to TE Students	June/July 2014	Mr. Sanir Kittur, Kolhapur
2014	Workshop	English Communication for TE Students	June- July 2014	Ms. Sneha Pai, Kolhapur
2014	Workshop	One day workshop on XML/HTML/PHP/MySQL for T.E/B.E Students	Aug 2014	Aniket Bhanage, Zento, Pune
2014	Workshop	Lead College Training program on Placement Preparation	Dec 2014	TKIET under lead College activity

### 33. Teaching methods adopted to improve student learning :

- Prior to the commencement of the semester, faculties prepare lesson plan and laboratory work plan of respective courses and is made available in their individual course profiles.
- To make effective teaching learning process ,faculties emphasizes on various instructional methods and pedagogical initiatives such as,
  - ✓ Use of OHP/LCD
  - ✓ Demo models/charts
  - ✓ Working models

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- ✓ Mini projects
  - ✓ Demo software
  - ✓ Group discussions
  - ✓ Brain storming sessions
  - ✓ Real time examples
  - ✓ NPTEL Videos
  - ✓ Exposure to consultancy
  - ✓ Webinar Series by eminent Industries such as Infosys
  - ✓ Moodle Based Teaching-Learning Activity
  - ✓ Efficient utilization of Virtual Lab portal
  - ✓ Industry Expert Lecture
  - ✓ Multimedia Learning
  - ✓ Spoken Tutorial, Infosys
  - ✓ Collaborative learnings like Mini Projects, Final Year Projects

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities :**

Sr.No	Nature of Service	Year
1	Blood Donation Camp	2015-16
2	NSS Activity	
3	Community Services (Adhar Card Awareness, Digital Locker, e-commerce services)	
4	NDLM (Digital Saksharta Abhiyan, National Digital Literacy Mission)	
5	Clean India Mission (Swachh Bharat Abhiyan)	
6	Women Empowerment Program(Women health program)	
1	Blood Donation Camp	2014-15
2	NSS Activity	
3	Community Services (Maha e-seva, Universal Account Number, EPFO, Passport seva, Online bill payment)	
4	NDLM (Digital Saksharta Abhiyan, National Digital Literacy Mission)	



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5	Clean India Mission (Swachh Bharat Abhiyan)	
6	Women Empowerment Program (Breast cancer awareness)	
1	Blood Donation Camp	2013-14
2	NSS Activity	
3	Community Services (e-courts, MSCIT, RTI )	
4	Women Empowerment Program (Healthy diet program)	
1	Blood Donation Camp	2012-13
2	NSS Activity	
3	Community Services (PPF, Mediclaim awareness)	
4	Women Empowerment Program (Arogyam)	
1	Blood Donation Camp	2011-12
2	NSS Activity	
3	Community Services (MSCIT, Vaccination awareness in rural INDIA)	
4	Women Empowerment Program (Higher education awareness)	
1	Blood Donation Camp	2010-11
2	NSS Activity	
3	Community Services (e-learning for kids)	
4	Women Empowerment Program (Stress Management)	

### 35. SWOC analysis of the department and Future plans

#### Strengths:

- Qualified, motivated and devoted faculty
- Well equipped and furnished laboratories
- Enriched departmental library
- Active students' association ACES
- Prominent CSI student chapter
- Active employability Skill Development Cells like CDC (Career Development Cell) and EDC (Entrepreneurship Development Cell)

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**Weakness:**

- Lacuna in interdisciplinary projects
- Lack of flexibility for making changes in curriculum as per industry requirements
- Limited opportunities for the faculty members to undertake research projects and consultancy assignments.
- Professional training in tune with new trends and technologies

**Opportunities:**

- Potential to establish Center of Excellence in collaboration with industries
- To initiate software development center
- Capitalization on increasing employability trends in IT industries
- Promoting Digital India mission

**Challenges:**

- Students with rural background
- Competition from international players and premier institutes.
- Change in the pace of technology

**Future Plans:**

- NBA Accreditation
- To initiate PG course
- To promote consultancy services
- To commence Certification Programs and initiate **Software Incubation Center Services** in collaboration with industries/institutes with national repute
- To motivate faculties for Ph.D programmes

**Department  
of  
Applied Sciences**

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## Evaluative Report of the Department

1. **Name of the Department** : Applied Sciences
2. **Year of Establishment** : 1983
3. **Names of Programmes/Courses offered** : NIL
4. **Names of Interdisciplinary courses and the departments / units / subjects involved:**

NIL

5. **Annual / semester choice based credit system (programme wise) :**

Sr. No.	Engineering / Technology		Annual / Semester Credit System
1	UG	FE	Semester System

6. **Participation of the department in the courses offered by other departments :**

Sr.No.	Subjects	Semester / Courses	Department
1	Engineering Mathematics-III	III	Mechanical Engineering
2	Engineering Mathematics-III	III	Civil Engineering
3	Engineering Mathematics-III	III	Electronics Engineering
4	Engineering Mathematics-III	III	Chemical Engineering
5	Applied Mathematics	III	Computer Science & Engg
6	Chemistry-I	III	Chemical Engineering
7	Electrical Technology	III	Mechanical Engineering
8	Soft skills	III	Computer Science & Engg.
9	Electrical Technology	III	Mechanical Engineering
10	Engineering Mathematics-IV	IV	Chemical Engineering
11	Chemistry-II	IV	Chemical Engineering
12	Professional skill development	V	Mechanical Engineering
13	Business English	V	Computer Science & Engg.

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

NIL

**8. Details of courses/programmes discontinued (if any) with reasons:**

NIL

**9. Number of Teaching posts :**

Cadre Wise Teaching Faculty	2014-15	
	Sanctioned	Filled
Professor	--	--
Associate Professor	2	4
Assistant Professor	15	13

**10. Faculty profile with name, qualification, designation, specialization : 2014-15**

Sr.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience			No. of Ph.D. Students guided for the last 4 years
					Industry/Research	Teaching	Total	
1	Dr. S. S. Joshi	M.Sc., Ph. D	Vice-Principal	Chemistry	5	29	34	Nil
2	Mr.P. B. Patil	M.Sc	Asso. Prof. & HoD	Chemistry	--	30	30	Nil
3	Prof. M.B. Kuppanatti	M.Sc	Asso. Prof.	Physics	--	28	28	Nil
4	Mr. T. S. Jangam	M.Sc. B.Ed. D.Pharm	Asso. Prof.	Chemistry	--	29	29	Nil
5	Dr. (Mrs.) V. D. Patil	M.Sc. B.Ed. M.Phil., Ph.D	Asst. Prof.	Chemistry	--	19	19	Nil
6	Dr. D. N. Mane	M.Sc.,Ph.D	Asso. Prof.	Maths	--	25	25	Nil

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7	Dr. A. V. Patil	M.Sc.,Ph.D.	Asst. Prof.	Physics	6	3.5	9.5	Nil
8	Dr. Marku Monis	M.A.(Eng), (Hist) B.Ed., Ph. D.	Asst. Prof.	English	--	15	15	Nil
9	Dr.S. S. Desai	M.Sc., Ph.D.	Asst. Prof.	Maths	3	4.7	7.7	Nil
10	Prof.R. B. Naik	M.Sc.	Asst. Prof.	Maths	--	7	7	Nil
11	Prof.D. S. Mane	M. Sc., B. Ed.	Asst. Prof.	Maths	--	7	7	Nil
12	Prof.S. N. Shelake	M. Sc.	Asst. Prof.	Maths	--	6	6	Nil
13	Prof.M. A. Mane	M. Sc. Tech., B.Ed.	Asst. Prof.	Maths	--	3	3	Nil
14	Prof.O.A. Dillon	M.A	Asst. Prof.	English	--	5	5	Nil
15	Prof.R. Koyyeda	M.Tech	Asst Prof	Electrical Engg	--	5	5	Nil
16	Prof. N. Mallanagowda	M.Tech	Asst Prof	Electrical Engg	--	3.5	3.5	Nil
17	Prof.M.D. Patil	M.SC.	Asst. Prof.	Maths	--	1	1	Nil

**11. List of senior visiting faculty :**

NIL

**12. Percentage of lectures delivered and practical classes handled by temporary faculty :**

NIL

**13. Student –Teacher Ratio : For First year engineering (2014 – 2015)**

Sr.No	Academic Year	Sanctioned Intake	Faculty Strength	Student –Teacher Ratio
1	2014-15	480	17+15*	15:1

\*Indicates number of faculty from engineering discipline.

**14. Number of academic support staff (technical) and administrative staff :**

Description	2014-15	
	S	F
Technical Support Staff	NIL	2 Lab assistant 2 Lab attendant
Administrative Staff	--	--

S – Sanctioned

F – Filled

**15. Qualifications of teaching faculty with DSc /D.Litt / Ph.D / MPhil / PG :**

Qualification	Total
DSc	-
D.Litt	-
Ph.D	6
Ph.D pursuing	1
PG	10
PG Pursuing	-

**16. Number of faculty with ongoing projects from National / 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. Facilities recognized by the University :**

NIL

**19. Publications : Faculty**

• **Paper Publications (In last four years)**

Sr.No	Name of the Faculty	Publications				Total
		NJ	IJ	NC	IC	
1	Dr. S. S. Joshi	0	1	0	0	1
2	Mr. P. B. Patil	0	0	2	0	2
3	Mr. T. S. Jangam	3	0	0	4	7

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4	Dr. D. N. Mane	0	1	0	0	1
5	Dr.(Mrs) V. D. Patil	0	6	0	0	6
6	Dr. A. V. Patil	0	4	0	0	4
7	Dr. Marku Monis	2	7	1	0	10
8	Dr. S. S. Desai	2	9	0	0	11
<b>Total</b>		<b>7</b>	<b>28</b>	<b>3</b>	<b>4</b>	<b>42</b>

NJ- National Journal

IJ – International Journal

NC- National Conference

IC – International Conference

**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 Book:**

Sr. No	Name of faculty	Chapter Name	Details of book
1	Dr. A. V. Patil	A search for precursors of earthquake from multistation ulf observations and TEC measurements in India	<b>Name of Book:</b> Frontiers of earthquake prediction studies ISBN: 978-4-931507-16-6 Year 2012, PP. 700 – 715.
2	Dr. Marku Monis	‘English Teachers’ use of computers in teaching English at technical institutions	<b>Name of Book:</b> Role of ICTs in English language teaching and learning: Observations and Ruminations ISBN: 978-93-82647-00-3 Year: 2013, pp. 184 – 202

**Books Edited:** NIL



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**Books with ISBN.ISSN numbers with details of publisher:**

Sr. No.	Name of faculty	Title	ISBN Number	Month and Year	Publisher
1	Dr. A. V. Patil	Study of the geo-seismology	978-3-8465-8579-5	July 2012	LAP LAMBERT Academic Publishing
2	Dr. S. S. Joshi	Engineering Chemistry	978-93-83525-68-3	2014	Nirali Publications

**Detailed information for Citation Index, h-index and i-10 index**

Sr. No.	Name of the Faculty	Citation Index	h-index	i-10 index
1	Dr.(Mrs) V. D. Patil	5	2	0
2	Dr. A. V. Patil	10	2	0
3	Dr. S. S. Desai	20	3	1
4	Dr. Marku Monis	3	1	0

**Details information for SNIP, SJR and Impact Factor (2014 – 2015)**

Sr. No.	Name of the Faculty	Name of journal	Impact factor	SNIP	SJR
1	Dr.(Mrs) V. D. Patil	Saudi Chemical society	1.694	1.338	0.421
2	Dr. A. V. Patil	Current Science	0.841	0.771	0.293
		Exploration Geophysics	0.58	0.814	0.429
		Indian Journal of Radio & Space Physics	0.604	0.487	0.408
3	Dr. S. S. Desai	Social Choice and Welfare	0.749	1.002	0.734
		Fundamenta Informaticae	0.522	1.097	0.696
		New Mathematics and Natural computation	--	0.226	0.124

---

4	Dr. Marku Monis	Online International Interdisciplinary Research Journal	2.089	--	--
		Indian Streams Research Journal	0.2105	--	--

**20. Areas of consultancy and income generated : NIL**

**21. Faculty as members in national committee, International committee and Editorial board:**

NIL

**22. Student projects**

- a. Percentage of students who have done in-house projects including inter departmental.

NIL

- b. Percentage of students placed for projects in organizations outside the institution.

NIL

**23. Awards. Recognitions received by faculty and students:**

A) Faculty Award

NIL

B) Students Award

i) Co-curricular activities:

Year	Name of student	Award	Rank
2012-13	Tejashri Diwan	Paper presentation Competition, Eureka 2k12	First
	Aditya Khade	Paper presentation Competition, Eureka 2k12	Third
	Madhuri Bhosale Sonal Kumbhar	Paper presentation Competition, Eureka 2k12	Seond
2013-14	Yogita Shinde	Paper presentation Competition, Eureka 2k13	Second
	Varun Shinde Ashish Patil	Paper presentation Competition, Eureka 2k13	Third
	Yogita Shinde	Model making Competition, Jidnyasa 2k14	Second
	Abhilash Patil Anuj Kumbhar	Model making Competition, Jidnyasa 2k14	First
2014-15	Sanket Gaikwad Pawan Patil	Paper presentation Competition, Eureka 2k14	First

	Rutuja Kate	Paper presentation Competition, Eureka 2k14	Third
	Rutuja Kate	Industrial Problem solver Competition, Jidnyasa 2k15	First
	Priyaka Pawar Dipali Rajage	Industrial Problem solver Competition, Jidnyasa 2k15	Second
	Jyoti Patil	Industrial Problem solver Competition, Jidnyasa 2k15	Third
	Yogesh Mote	Model Making Competition, Jidnyasa 2k15	First
	Swapnil Deshmukh Dhuldev Nikam	Model Making Competition, Jidnyasa 2k15	Third
	Omkar Patil Omkar Nikam	Quiz Competition at RIT Sakharale	First

**ii) Extra-curricular activities:**

Year	Name of student	Event	Level	Rank	Place
2012-13	Swapnil Bhagat Akshay Mulik Shinde Shubham	Cricket	lead college tournament, S. U. Kolhapur	Runner Up	DKTE Ichalkaranji
	Patil Jaydeep Bhore Rahul Nikam Ankitkumar Patil Vishal	Basketball	Lead college tournament, S. U. Kolhapur	Winner	SGI Atigare
	Bhosale Aditya	Mallkhamb	Inter Zonal	Runner Up	YCWM Warananagar
	Panasakar Aditya	KHO-KHO	Lead college tournament, S. U. Kolhapur	Winner	SIT Yadrav

2013-14	Jamdade Akshay	Athletics	Zonal	Winner	YC college Halkarni
	Patil Vaibhav Awati Laukik Patil Shubham	Basketball	Zonal	Winner	Night College Kolhapur
2014-15	Shete Vishwatej	Handball	Lead college tournament, S. U. Kolhapur	Runner Up	D R Mane college Kagal
	Wakchaure Akash Patel Bhavesh Patil Parag	Badminton	Lead college tournament, S. U. Kolhapur	Winner	DY Patil COE Kolhapur
	Naikawadi Prithviraj	Volleyball	Lead college tournament, S. U. Kolhapur	Winner	Bharati Vidyapeet Kolhapur
	Nagare Shubham	Basketball	Inter University	Participated	Swami Ramanand Teerth Marathwada University, Nanded

**24. List of eminent academicians and scientists/ visitors to the department:**

NIL

**25. Seminars / Conferences / Workshops organized & the source of funding**

Year	Seminars Conferences/ Workshops	N/I	Title	Date	Funding Agencies
2013	Workshop	N	Faculty development programme on engineering physics	3 <sup>rd</sup> to 5 <sup>th</sup> July 2013	Self
2015	Workshop	N	STTP workshop on Technical communication	8 <sup>th</sup> Oct to 5 <sup>th</sup> Dec 2015	MHRD
2015	Workshop	N	STTP workshop on Engineering Physics	8 <sup>th</sup> to 18 <sup>th</sup> Dec 2015	MHRD

N – National

I – International

S – Self

**26. Student profile programme/course wise:**

Name of the Course / Programme	Academic Year	Applications received	Selected	Enrolle		Pass Percentage
				M	F	
First Year Engineering	2014 – 2015	NA	404	318	86	74.32
	2013 – 2014	NA	418	262	156	66.57
	2012 – 2013	NA	569	400	169	61.45
	2011 – 2012	NA	510	355	155	70.51

M – Male      F – Female

**27. Diversity of Students:**

Name of the Course	Academic Year	Year	% of Maharashtra State Students	% of other State Students	% of Students from Abroad
First Year Engineering	2014 – 2015	I	400 (99%)	4(1%)	0
	2013 – 2014	I	415 (99%)	3 (1%)	0
	2012 – 2013	I	565 (99%)	4 (1%)	0
	2011 – 2012	I	508 (99%)	2 (1%)	0

**28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil services, Defence services, etc?**

NOT APPLICABLE

**29. Student Progression: NOT APPLICABLE****30. Details of Infrastructural facilities :**

## a) Central Library

Sr. No.	Descriptions	Quantity in Numbers	
1	Books for students circulation	Titles	786
		Volumes	5149
2	Department Library for Reference	Titles	--
		Volumes	--
3	Technical Journals	National	04
		International	--
		e-Journals	--

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4	Technical Magazines Subscribed	--
5	News Papers	--
6	Educational CDs (CBTs)	NPTEL and Tutelminds

b) Internet facilities for Staff & Students

Sr. No.	Descriptions	Quantity in Numbers
1	Computers	35
2	Computer with Internet Facilities	35
3	Bandwidth	50 Mbps
4	Network Facilities for all Computers	35
5	Printers	03
6	Scanner	01
7	Plotter	--
8	LCD Projector	01
9	External DVD	--

c) Class rooms with ICT facility

Sr. No	Descriptions	Number of Rooms
1	Class room with black Board	5
2	Class room with Projectors	3
3	Class room with Internet Facilities	2
4	Class room with ICT Facilities	2

d) Laboratories for UG and PG:

Sr. No.	Name of the Laboratory For UG Course	Room Code No.	Carpet Area in
1	Engineering Physics	LB-BH-02	67.68
2	Engineering Chemistry	LB-BH-01	200
3	Basic Electrical Engineering	LB-EX-10	134
4	Communication Lab	LL-BH-01	66

**31. Number of students receiving financial assistance from college, university, government or other agencies**

Sr No.	Category	2014-15	2013-14	2012-13	2011-12	2010 – 11
1	VNJI	34	33	53	53	51
2	OBC	58	55	78	73	80
3	SC/ST	40	42	55	41	47
4	SBC	5	9	19	23	17
5	EBC	121	100	116	95	123
6	STC	6	9	9	11	12
7	PTC	7	10	12	12	10
8	Minority Scholarship	1	3	2	--	1

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

Academic Year	Special Lectures / Workshops / Seminar	Title	Date	External Experts
2012 – 2013	Special Lecture	Ancient Indians and how to improve focus	11 <sup>th</sup> Jan. 2013	Sanjay Gulbani (Monash University Melbourne, Austrilia)
	Special Lecture	Health Awareness & Stress Management	7 <sup>th</sup> Feb 2013	Dr. Krishnadev Giri Crime Branch, Mumbai
2013 - 2014	Special Lecture	Study Techniques	6 <sup>th</sup> Sept. 2013	Dr. P. J. Kulkarni Walchand College of Engg. Sangli

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	Workshop	Soft Skill training Programme	13th and 14th Feb 2014	Miss. Sneha Waghokar
2014 - 2015	Guest Lecture	Higher education & Opportunities in India and Abroad	12th Sep 2014	Mr. Abu M. Khan, IIT, Mumbai
	Workshop	Soft Skill Development	14th Feb 2014 to 8th March 2014	Miss. Sneha Waghokar
	Special Lecture	Personality development	25 <sup>th</sup> March 2015	Prof. Raja Malagi

**33. Teaching methods adopted to improve student learning :**

- Power point presentation and videos
- The outcome based teaching-learning method is adopted for improving student learning.
- Continuous evaluation system
- Group discussion, debate, Brain storming

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities :**

Sr.No	Nature of Service	Year
1	Blood donation camp.	2014 – 15
2	Participation in NSS camp.	2013 – 14
		2014 – 15
3	Tree plantation	2014 – 15
4	Social awareness rallies	2013 – 14



---

### **35. SWOC analysis of the department and Future plans**

#### **Strengths:**

- 1) Qualified, experienced and dedicated faculty.
- 2) 6 Ph.D and 1 Ph.D pursuing out of 17 faculty members.
- 3) Well equipped laboratories
- 4) Systematic monitoring of teaching-learning process.
- 5) Representation of faculty in university governance.
- 6) Effective Guardian scheme
- 7) Remedial lectures for academically weaker students
- 8) Liaison with parents.

#### **Weaknesses:**

- 1) Lower merit students
- 2) Students with poor communication skills
- 3) Lack of departmental library

#### **Opportunities:**

- 1) To attract better quality students
- 2) To enhance industry-department interaction.

#### **Challenges:**

- 1) Poor communication skills and fundamentals of students
- 2) Declining admission trends towards engineering education

#### **Future Plans:**

- 1) Effective use of ICT for teaching-learning process
- 2) To make avail study material for students on Moodle.
- 3) Use of Moodle for conduction of tests.
- 4) To acquaint students with the concept of Virtual labs.

---

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**Declaration  
by  
Head of the Institution**



Shree Warana Vibhag Shikshan Mandal's

# TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY

WARANANAGAR, Pin - 416113. Tal. Panhala, Dist. Kolhapur, M.S., India.

Phone : 02328-224012, 224013, Fax : 02328-223507

E-mail : principal@tkietwarana.org Website : www.tkietwarana.org

An ISO 9001 : 200 Certified Institute ; Accredited by National Board of Accreditation, New Delhi.  
Recognized by Govt. of Maharashtra ; Approved by A.I.C.T.E., New Delhi and Affiliated to Shivaji University Kolhapur.

Ref - TKIET/ 40/7<sup>th</sup> JAN 2016

Date - 7<sup>th</sup> Jan 2016

## 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,

Tatyasaheb Kore Institute of  
Engineering and Technology.  
Warananagar, Dist. Kolhapur.



Place: TKIET, Warananagar

Date: 7<sup>th</sup> Jan, 2016

# Compliance Certificate



Shree Warana Vibhag Shikshan Mandal's

# TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY

WARANANAGAR, Pin - 416113. Tal. Panhala, Dist. Kolhapur, M.S., India.

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An ISO 9001 : 200 Certified Institute ; Accredited by National Board of Accreditation, New Delhi.  
Recognized by Govt. of Maharashtra ; Approved by A.I.C.T.E., New Delhi and Affiliated to Shivaji University Kolhapur.

Ref : TKIET/NAAC/ 216 /2016

Date : 29/01/2016

## Certificate of Compliance

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that **Tatyasaheb Kore Institute of Engineering & Technology, Warananagar** fulfills all norms.

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.
4. In case the affiliation/recognition is withdrawn by the authority concerned the same will be informed to NAAC immediately.

In case the affiliation/recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.


It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date : 29/01/2016

Place : Warananagar



  
(Dr. S.V. Anekar)  
PRINCIPAL,  
Tatyasaheb Kore Institute of  
Engineering and Technology,  
Warananagar, Dist. Kolhapur.

# **AISHE Certificate**





Government of India  
Ministry of Human Resource Development  
Department of Higher Education  
Statistics Division  
New Delhi

# Certificate



**Reference No.** C-11167-2015

This is to certify that Dr. Sunil V Anekar of Tatyasaheb Kore Institute of Engineering & Technology, WARANANAGAR has successfully uploaded the data of All India Survey on Higher Education(AISHE) 2015-2016.

( B N Tiwari )

Deputy Director General

**Dated:** 28/01/2016

# **Annexures**

## **Annexure - I**



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

F.No. Western/1-2452214632/2015/EOA

Date: 07-Apr-2015

To,  
The Secretary,  
Tech. & Higher Education Deptt.  
Govt. of Maharashtra, Mantralaya,  
Annexe Building, Mumbai-400032

**Sub: Extension of approval for the academic year 2015-16**

Ref: Application of the Institution for Extension of approval for the academic year 2015-16

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Western	Application Id	1-2452214632
		Permanent Id	1-3674181
Name of the Institute	SWVSM'S TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY	Institute Address	TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY, WARANANAGAR, TAL.: PANHALA, DIST.: KOLHAPUR, WARANANAGAR, KOLHAPUR, Maharashtra, 416113
Name of the Society/Trust	SHREE WARANA VIBHAG SHIKSHAN MANDAL	Society/Trust Address	WARANANAGAR, 416113, TAL. PANHALA, DIST. KOLHAPUR, WARANANAGAR, KOLHAPUR, Maharashtra, 416113
Institute Type	Unaided - Private		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2015-16

Application Number: 1-2452214632\*

Page 1 of 4

Note: This is a Computer generated Letter of Approval.No signature is required.

**ATTESTED**

Letter Printed On:15 April 2015

Printed By : AE2654037



  
**PRINCIPAL,**  
**Tatyasaheb Kore Institute of**  
**Engineering and Technology.**  
**Warananagar, Dist. Kolhapur.**





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(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

Application Id: 1-2452214632			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CHEMICAL ENGINEERING	FULL TIME	Shivaji University, Kolhapur	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CIVIL ENGINEERING	FULL TIME	Shivaji University, Kolhapur	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ELECTRONICS ENGINEERING	FULL TIME	Shivaji University, Kolhapur	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MECHANICAL ENGINEERING DESIGN	FULL TIME	Shivaji University, Kolhapur	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UG 2nd Yr DIRECT	CIVIL ENGINEERING	FULL TIME	Shivaji University, Kolhapur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CHEMICAL ENGINEERING	FULL TIME	Shivaji University, Kolhapur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Shivaji University, Kolhapur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Shivaji University, Kolhapur	120	120	NA	NA	NA

Application Number: 1-2452214632\*

ATTESTED

Page 2 of 4

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PRINCIPAL,  
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Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS ENGINEERING	FULL TIME	Shivaji University, Kolhapur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Shivaji University, Kolhapur	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	UG 2nd Yr DIRECT	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Shivaji University, Kolhapur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	UG 2nd Yr DIRECT	MECHANICAL ENGINEERING	FULL TIME	Shivaji University, Kolhapur	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Shivaji University, Kolhapur	60	60	NA	NA	NA

Note: Validity of the course details may be verified at [www.aicte-india.org/departments/approvals](http://www.aicte-india.org/departments/approvals)

The above mentioned approval is subject to the condition that SWVSM'S TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Application Number: 1-2452214632\*

**ATTESTED**

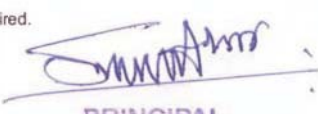
Page 3 of 4

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Letter Printed On:15 April 2015

Printed By : AE2654037



  
**PRINCIPAL,**  
**Tatyasaheb Kore Institute of**  
**Engineering and Technology,**  
**Warananagar, Dist. Kolhapur.**



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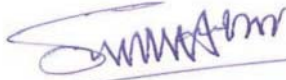
**Dr. Avinash S Pant**  
Actg Chairman, AICTE

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
Industrial Assurance Building  
2nd Floor, Nariman Road  
Mumbai - 400 020, Maharashtra
2. **The Director Of Technical Education,**  
Maharashtra
3. **The Registrar,**  
Shivaji University, Kolhapur
4. **The Principal / Director,**  
SWVSM'S TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY  
TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY, WARANANAGAR, TAL.: PANHALA,  
DIST.: KOLHAPUR,  
WARANANAGAR, KOLHAPUR,  
Maharashtra, 416113
5. **The Secretary / Chairman,**  
SHREE WARANA VIBHAG SHIKSHAN MANDAL  
WARANANAGAR, 416113, TAL. PANHALA, DIST. KOLHAPUR,  
WARANANAGAR, KOLHAPUR,  
Maharashtra, 416113
6. **Guard File(AICTE)**



**ATTESTED**

  
**PRINCIPAL,**  
**Tatyasaheb Kore Institute of**  
**Engineering and Technology.**  
**Warananagar, Dist. Kolhapur.**

Application Number: 1-2452214632\*

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Printed By : AE2654037

Page 4 of 4

Letter Printed On: 15 April 2015

## **Annexure - II**





Estd : 1962

"A" Re-accredited by  
NAAC (2014) With  
CGPA-3.16

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004 MAHARASHTRA

PHONE: EPBX - 2609000 FAX:0091-0231-2691533 & 0091-0231-692333

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४ महाराष्ट्र

दूरध्वनी ईपीबीएक्स- २६०९००० संलग्नता टी-२ विभाग दूरध्वनी -०२३१ - २६०९०९१  
संचालक, बी.सी.यु.डी. कार्यालय, दूरध्वनी : (थेट) ०२३१ - २६०९०७०

Ref.No.SU/Affi.T-2/

10283 -

Date :- 6 JAN 2016

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Tatyasaheb Kore Institute of Engineering & Technology, WARANANAGAR-416 113 Tal:Panhala Dist: Kolhapur (Maharashtra state) is affiliated to Shivaji University, Kolhapur since 1983 and following Courses are taught in the said college as per approval.

Sr. No.	Programme	Duration of the Course	Affiliation (Permanent/Temporary)	Validity period
a)	<b>U.G. Courses (B.E.)</b>			
1	Chemical Engineering – 1 <sup>st</sup> Shift (60)	Four Years	Temporary	2015 - 2016
2	Electronics Engineering – 1 <sup>st</sup> Shift (60)			
3	Civil Engineering – 1 <sup>st</sup> Shift (60)			
	Civil Engineering – 2 <sup>nd</sup> Shift (60)			
	Civil Engineering – (Direct S.E.) – 1 <sup>st</sup> Shift (60)	Three yrs		
4	Mechanical Engineering – 1 <sup>st</sup> Shift (120)	Four Years		
	Mechanical Engineering – (Direct S.E.) – 2 <sup>nd</sup> Shift (60)	Three Years		
5	Computer Science & Engineering – 1 <sup>st</sup> Shift (120)	Four Years		
	Computer Science & Engineering – (Direct S.E.) – 2 <sup>nd</sup> Shift (60)	Three Years		
b)	<b>P.G. Courses (M.E.)</b>			
1	Chemical Engineering - 18	Two Years	Temporary	2015 - 2016
2	Electronics Engineering – 18			
3	Mechanical Engineering – (Design) - 18			
4	Civil Engineering –(Construction & Management) - 18			



ATTESTED

PRINCIPAL,  
Tatyasaheb Kore Institute of  
Engineering and Technology.  
Warananagar, Dist. Kolhapur.

Director

Board of College and University Development

## **Annexure - III**

# NATIONAL BOARD OF ACCREDITATION

Bisham Pitamah Marg, Pragati Vihar, Lodhi Road,  
4<sup>th</sup> Floor, NBCC Building, East Tower,  
(An Autonomous Body of All India Council for Technical Education)  
Tel: 011-2436081, Tel Fax: 011-2436082  
New Delhi- 110 003

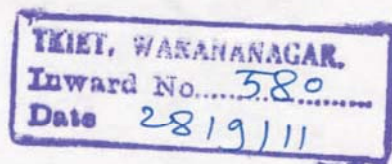
Dr. D.K. Paliwal  
Member Secretary, NBA

File No. 28-154/2010-NBA

Dt. 22.09.2011

To

The Director/ Principal  
Tatyasaheb Kore Institute of Engineering and Technology,  
Warananagar – 416 113, Tal.: Panhala,  
Distt. Kolhapur, (Maharashtra)



**Subject-Accreditation status of programmes offered by Tatyasaheb Kore Institute of Engineering and Technology, Warananagar – 416 113, Tal.: Panhala, Distt. Kolhapur, (Maharashtra)**

Dear Sir/ Madam,

This has reference to your application dated 24.04.2009 seeking accreditation of National Board of Accreditation to various Programmes.

2. An Expert Committee conducted an on-site evaluation of the programmes. The report submitted by the expert committee was considered by the Engineering & Technology Accreditation Evaluation Committee (EAEC) for the concerned programmes. The Chairman of Executive Committee (EC) of the National Board of Accreditation considered the recommendations of the relevant Accreditation Evaluation Committee for each programme on 16-09-2011. The Chairman approved the accreditation status of each programme of your institution which is as under:

S. No	Name of the Programme(s)	Accreditation status	Period of validity w.e.f 16-9-2011
1	BE Chemical Engg.	Accredited	3 years
2	BE Civil Engg.	Accredited	3 years
3	BE Computer Science & Engg.	Accredited	3 years
4	BE Information Technology	Not Accredited	
5	BE Electronics Engg.	Accredited	3 years
6	BE Mechanical Engg.	Accredited	3 years

3. The accreditation status awarded to the programmes as indicated in the above paragraph does not imply that the accreditation has been granted to the **Tatyasaheb Kore Institute of Engineering and Technology, Warananagar – 416 113, Tal.: Panhala, Distt. Kolhapur, (Maharashtra)** as a whole. The complete name of the programme(s) accredited, level of programmes (UG or PG as the case may be ) and the period of validity of accreditation, as well as the date from which the accreditation is effective, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

D.K. Paliwal



4. The accreditation status of the above programme (s) is subject to change on periodic review by the NBA Secretariat if major deficiencies are noticed. It is desired to comply with the mandatory disclosure of pertinent information in respect of accredited programmes indicated in table in paragraph 2 above in proforma prescribed on the website of the National Board of Accreditation. The same information is also required to appear on the website and information bulletin of your institution.

5. The accreditation status awarded to the programmes as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

6. A copy of the comprehensive Report submitted by the Chairman of the Expert Committee which visited your institution is enclosed for reference and taking necessary action to overcome the shortcomings, if any, observed by the Expert Team.

7. If the institution is not satisfied with the decision of NBA, appeal may be filed within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,

  
(Dr. D.K. Paliwal) -  
Member Secretary

Encls: Copy of Report of Chairman of the Visiting Team

Copy to

1. The Vice Chancellor  
Shivaji University,  
Vidyanagar, Kolhapur- 416 004.  
Maharashtra
2. The Director,  
Directorate of Technical Education,  
Govt. of Maharashtra,  
3, Mahapalika Marg,  
Mumbai-400 001 (MS)
3. The Regional Officer, AICTE,  
Western Regional Office,  
Industrial Assurance Building,  
2<sup>nd</sup> Floor, Nariman Road,  
Mumbai-400 020 (Maharashtra)
4. Accreditation File
5. Master accreditation file of the State.



राष्ट्रीय प्रत्यायन मंडल (रा.प्र.मं.)  
NATIONAL BOARD OF ACCREDITATION (NBA)  
(constituted under clause 10(U) of AICTE Act, 1987)

F. No. NBA/ACCR -268/2004

Dated 24/03/04

Dr. P. N. RAZDAN  
Member Secretary

To  
The Principal,  
Tatyasaheb Kore Institute of Engg. & Technology,  
Warananagar, Panhala,  
Dist: Kolhapur, Maharashtra.



Sir,

Sub : NBA Accreditation to your institutional programmes

This is with reference to your proposal for accreditation of the following programmes and the NBA accreditation visit to your institution. The report of the accreditation visit was considered by the Sectoral Committee and subsequently by the National Board of Accreditation in its meeting held on **March 19, 2004**. Based on the recommendations of the Board, I am directed to convey the Accreditation Status of following under-graduate degree level programme(s) in Engg / Technology.

S.NO.	Name of Programme(s)	Accreditation Status	Period of validity w.e.f. 19-03-2004
1.	Chemical Engg.	Accredited	5 Years
2.	Civil Engg.	Accredited	3 Years
3.	Electronics Engg.	Accredited	3 Years
4.	Mechanical Engg.	Accredited	3 years

(Total number of programmes Accredited vide this letter -Four)

The Accreditation Status awarded to the various programmes of your institution does not imply accreditation to the College/Institution as a whole. The full name of the Programme accredited and the period of validity of accreditation, as well as the date from which the award is effective, should be quoted unambiguously whenever it is used.

The Status awarded to the above programmes of your College/Institution are on the presumption that the Institute would maintain the current standards in future. If there are any changes that would effectively alter the status (such as, major changes in faculty availability or changes in the management structure, etc), the same shall be communicated to the Member Secretary NBA, with an appropriate explanatory note.

Yours sincerely

*P.N. Razdan*  
(P.N. Razdan)

- C.C - (i) The Vice Chancellor, Shivaji University, Kolhapur.  
(iv) The Secretary Govt. of Maharashtra, Maharashtra.  
(iii) The W. R. O. Mumbai

(P. N. Razdan)

## **Annexure - IV**



## Annexure IV

### **Details of Admission Process (UG & PG)**

#### **Admission Process to UG Programmes:**

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Mathematics and Chemistry/Biotechnology /Biology/ Technical Vocational subject

**AND**

Secured minimum 50 % marks (minimum 45 % marks, in case of Backward class categories

and Persons with Disability candidates belonging to Maharashtra State only) in the subjects

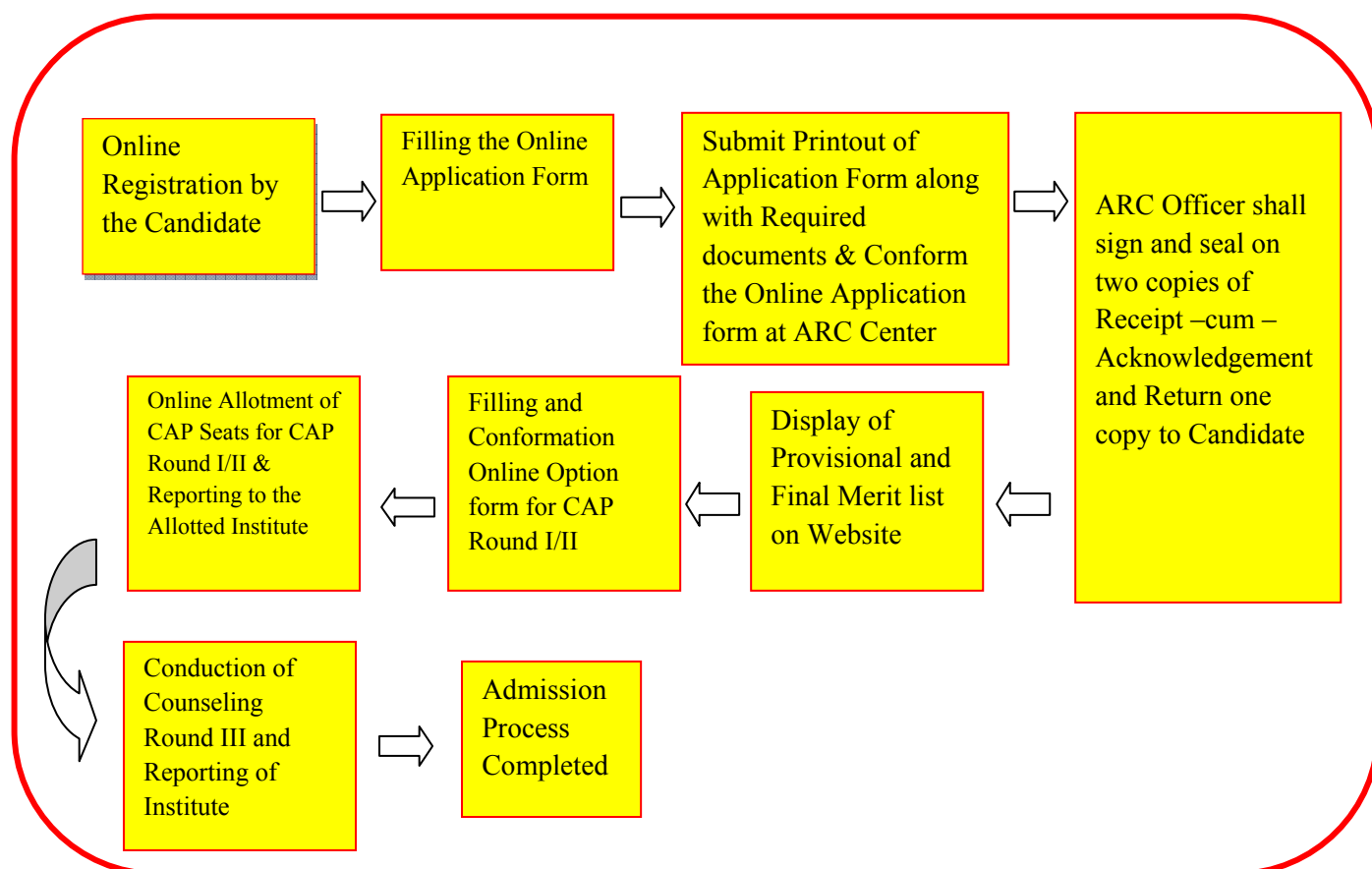
Physics, Mathematics and Chemistry/Biotechnology/Biology/ Technical Vocational

subject added together.

**AND**

Obtained a positive Composite score\* i.e., score obtained after adding 50% of JEE (Main) 2015

(Paper 1) marks percentile and 50% of Standard XII (Board or Equivalent Examination.) Physics, Chemistry and Mathematics marks percentile.



### **Admission Process for Out of Maharashtra Students ( OMS )**

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Mathematics and Chemistry/Biotechnology /Biology/ Technical Vocational subject

**AND**

Secured minimum 50 % marks (minimum 45 % marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the subjects Physics, Mathematics and Chemistry/Biotechnology/Biology/ Technical Vocational subject added together.

**AND**

Obtained All India Rank in JEE (Main) 2015 (Paper 1) given by CBSE

### **Admission Process for Maharashtra Karnataka Border Students (MKB)**

Maharashtra Karnataka Disputed Border Area are required to fulfill following additional eligibility criterions.

1. Candidates should be from such villages/towns, from the Maharashtra Karnataka Disputed border areas, on which Maharashtra puts its claim. Engineering/Technology DTE, Mumbai
2. The candidate should produce the certificate that his/her father/mother/candidate himself/herself is a domicile of Karnataka in the disputed border area as specified in the Proforma G1/G2 OR The candidate should produce the domicile certificate of his/her father/mother/candidate himself/herself stating that he/she is a resident of a village.
3. The candidate should have passed SSC (or equivalent) and/or HSC (or equivalent) from an Institution situate in the disputed border area. The candidate must produce a certificate from the Principal/Head Master of the College/School stating that the candidate has passed SSC/HSC (or equivalent) Examination from that Institution.
4. Mother tongue of the candidate must be Marathi. The candidate must produce a certificate from the Principal/Head Master of the School from which he/she has passed the SSC (or equivalent) Examination, stating that the candidate's Mother tongue is Marathi as per the original School record.
5. Candidate should have passed SSC or HSC (or equivalent) Examination with Marathi as one of the subject.



6. Composite Score of MKB Candidates shall be calculated in the manner similar as applied to Maharashtra state board students considering he /she has passed HSC from Maharashtra board.
7. Composite Score of MKB Candidates shall be calculated by mapping his or her HSC performance with Maharashtra state board.

**Persons with Disability Candidates: (Physically Handicap)**

As per the provisions in Clause 39 of Equal Opportunities, Protection of Rights and Full Participation Act 1995, three percent (3%) seats of total sanctioned intake capacity of all the institutions coming under CAP shall be reserved for Persons with Disability candidates.

- 1% seats for Visually impaired (blind) candidates (P1)
- 1% seats for Speech & hearing impaired (deaf & dumb) candidates, (P2)
- 1% seats for Orthopedic disorders, learning disabilities, Dyslexia, Dyscalculia, Dystrophic, Spastic (P3)

Allotment of the seats reserved for the Persons with Disability candidates shall be done on the basis of an inter-se merit of respective type of handicap of such candidates.

Reservation for sons/daughters of Defence service personnel: ( Ex-Serviceman)

Five (5) % seats of the total sanctioned intake for an institute, subject to a maximum of five (5) seats in each institute coming under CAP shall be reserved for

- Children of ex- service personnel who are domiciled in Maharashtra State (DEF-1).
- Children of active service personnel who are domiciled in Maharashtra State (DEF-2).
- Children of active service personnel (DEF-3) –
  - Who are transferred to Maharashtra State but are not domiciled in Maharashtra State,
  - Who are not domiciled in Maharashtra State but their families are stationed in

Maharashtra State under the provision of retention of family accommodation at the last duty station on grounds of children's education provided further that, such candidate should have appeared and passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination from a school/college situate in the State of Maharashtra.

Admission Process J & K Migrant Students.

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Mathematics and Chemistry/Biotechnology /Biology/ Technical Vocational subject

**AND**

Secured minimum 50 % marks in the subjects Physics, Mathematics and Chemistry/Biotechnology/Biology/ Technical Vocational subject added together.

**AND**

Obtained All India Rank in JEE (Main) 2015 (Paper 1) given by CBSE

Admission Process of GOI Nominee : ( Government of India Nominee)

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Mathematics and Chemistry/Biotechnology /Biology/ Technical Vocational subject

**AND**

Secured minimum 50 % marks (minimum 45 % marks, in case of Backward class categories and Persons with Disability candidates of respective States) in the subjects Physics, Mathematics and Chemistry/Biotechnology/Biology/ Technical Vocational subject added together.

**AND**

Obtained All India Rank in JEE (Main) 2015 (Paper 1) given by CBSE

National/PIO/Children of Indian workers in the Gulf countries/ Children of NRI

Candidate should have passed the HSC (Std.XII) examination of Maharashtra State Board of

Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Mathematics and Chemistry/Biotechnology/Biology/ Technical Vocational subject

**AND**

Engineering/Technology DTE, Mumbai CAP Brochure 2015 Secured minimum 50 % marks in the subjects Physics, Mathematics and Chemistry/Biotechnology/Biology/ Technical Vocational subject added together.

### **Tuition Fee Waiver Scheme**

#### **The salient features of the scheme are:-**

1. Under the Scheme, 5 percent of sanctioned intake per course shall be available for these admissions. These seats shall be supernumerary in nature and to be filled through centralized admission process conducted by Competent Authority i.e., DTE irrespective of the institute participate in CAP or not. Institutes not participating in CAP are not allowed to fill these seats at institute level.
2. Sons and daughters of parent having annual income of less than Rs. 6.00 lakhs from all sources shall only be eligible for seats under this scheme.
3. The scheme shall be mandatory (subject to adherence to procedure as laid down below) for all Institutions approved by the council.
4. The Waiver is limited to the tuition fee as approved by the State Level Fee Committee for self-financing Institutions and by the Government for the Government and Government Aided Institutions. All other Fee except tuition fees will have to be paid by the beneficiary.
5. These seats are not available in second shift courses

#### **Procedure for calculation of Composite Score**

1. 50 % weightage shall be given to the percentile of marks obtained in JEE (Main) 2015–Paper 1 and 50 % weightage shall be given to the percentile of marks obtained in the subjects Physics, Chemistry and Mathematics in the Board examination added together.
2. For Maharashtra State candidate (Type A, B, C, D, E –Refer Rule 3.0) passing HSC from Maharashtra state Board, CBSE and ICSE, Percentile shall be calculated separately for the irrespective boards on the basis of March 2015 examination. If the candidate has passed HSC from any Board other than Maharashtra state Board, CBSE and ICSE, then such candidate shall be assigned equivalent Board Percentile of Maharashtra State Boards' candidate scoring equal number of marks in the subjects Physics, Chemistry and Mathematics added together for March 2015 examination.
3. For Maharashtra State candidate (Type A, B, C, D, E) from Maharashtra State Board, CBSE and ICSE result of March 2015 of the respective board shall be considered for the purpose of total number of students appeared for the subjects Physics, Chemistry and Mathematics in the respective board.

$$\text{JEE Percentile (Po)} = \frac{\text{Number of students scored marks less than a particular mark}}{100} \times \text{Total number of students appeared for the JEE (Main) 2015 Paper 1.}$$

$$\text{Board Percentile (P)} = \frac{\text{Number of students scored marks less than a particular mark in the JEE (Main) 2015 Paper 1.}}{100} \times \text{Total number of students appeared for the subjects Physics, Chemistry and Mathematics in the respective Board Examination held in March 2015.}$$

Composite Score = 0.5 x JEE Percentile (Po) + 0.5 x Board Percentile (P)

Example: -A Candidate who has scored 282 total marks (94%) in Physics, Chemistry and Mathematics subjects added together in 'XYZ' Board examination and scored 50 Marks in JEE (Main) 2015 – Paper 1 examination.

The composite score shall be calculated as below:

**A. JEE Examination Details and calculation of JEE Percentile (Po)**

- Number of Candidates Appeared for JEE (Main) 2015 - Paper 1 Examination = 12,78,580
- Number of Candidates scored less than 50 Marks in JEE (Main) 2015 - Paper 1 Examination = 8,21,007

$$\text{JEE Percentile (Po)} = \frac{\text{Number of students scored marks less than a particular marks in the JEE (Main) 2015 Paper 1.}}{100} \times \text{Total number of students appeared for the JEE (Main) 2015 Paper 1.}$$

$$= (8, 21,007 / 12, 78,580) \times 100$$

$$= 64.21240751$$

**B. Board Examination Details and calculation of Board Percentile (P)**

- Number of Candidates Appeared for standard 12th Board Examination with Physics, Chemistry and Mathematics (PCM) = 3,23,227  
Engineering/Technology DTE, Mumbai CAP Brochure 2015

- Number of Candidates scored less than 282 marks in Std.12th Board Examination with Physics, Chemistry and Mathematics = 3,22,969

Number of students scored marks less than 282 marks  
(PCM) in the respective Board Examination held in March 2015.

$$\text{Board Percentile(P)} = \frac{\text{Number of students scored marks less than 282 marks}}{\text{Total number of students appeared for the subjects Physics, Chemistry and Mathematics in the respective Board Examination held in March 2015.}} \times 100$$

Total number of students appeared for the subjects  
Physics, Chemistry and Mathematics in the  
respective  
Board Examination held in March 2015.

$$= \frac{3,22,969}{3,23,227} \times 100$$

$$= 99.92017994$$

#### C. Calculation of Composite Score

$$\begin{aligned} \text{Composite Score} &= 0.5 \times \text{JEE Percentile (Po)} + 0.5 \times \text{Board Percentile (P)} \\ &= 0.5 \times 64.21240751 + 0.5 \times 99.92017994 \\ &= 82.06629373 \end{aligned}$$

#### Type of Candidature:

##### Types of Maharashtra State Candidates and Home Universities:

A candidate is considered eligible for admission to the seats of Maharashtra State coming under the purview of competent authority subject to fulfillment of any one of the eligibility requirements as listed in the following table.

Sr.No	Type of candidature for Maharashtra State candidates	Eligibility requirement	Home University
1	Type – A (Maharashtra State candidate)	Candidate Passing SSC (Std. X ) And HSC (Std. XII) examination from a recognized institution in Maharashtra State. and Candidate is Domiciled or Born in the State of Maharashtra.	Candidate's Home University is the University area under the jurisdiction of which the place of passing the H.S.C. examination falls in the State of Maharashtra.
2	Type-B (Maharashtra Domiciled candidates)	Does not satisfy as Type – A Candidate but Candidate/ Father or Mother of the	Candidate's Home University is the University area under the jurisdiction of

		candidate is Domiciled in the State of Maharashtra	which the place of the authority issuing Domicile Certificate falls in the State of Maharashtra
3	Type – C (Sons and daughters of central Govt. / Govt. of India Undertaking employee)	Does not satisfy as Type –A and Type-B Candidate but Father /Mother of the candidate is an employee of the Government of India or Government of India Undertaking who is posted and reported to duty in Maharashtra State before the last date for submitting the Application Form for Centralized Admission.	Candidate's Home University is the University area under the jurisdiction of which the place of posting of the father/ mother of the candidate who is a central Government / Government of India Undertaking employee falls in the State of Maharashtra.
4	Type – D (Sons and daughters of Maharashtra State Govt. / Maharashtra State Govt undertaking employee)	Does not satisfy as Type –A, Type-B and Type-C Candidate but Father / Mother of the candidate is an employee of the Government of Maharashtra / Government of Maharashtra Undertaking.	Candidate's Home University is the University area under the jurisdiction of which the place of posting of the father/ mother of the candidate who is a Maharashtra State Government/ Maharashtra State Govt. undertaking employee falls in the State of Maharashtra.
5	Type-E (Maharashtra Karnataka disputed Border Area Candidates)	Refer Rules 2.1 and 2.6 for eligibility criteria	Candidates will only be considered for SL / OHU seats of Maharashtra State of CAP. These candidates will also be eligible for the seats

			remaining vacant in Un-aided Institutes after the CAP round and for additional round of Government, Government Aided, University departments and University managed Institutes.
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#### Reservations:

All the reservations given below shall be applicable to candidates belonging to Maharashtra State only subject to the fulfillment of the eligibility criteria specified by respective authorities from time to time.

#### 4.1 Reservation for Backward Class category Candidates:

The percentage of seats reserved for candidates of backward class categories belonging to Maharashtra State is as per the details in table given below. The percentages of reservation are the percentages of the seats available for Maharashtra candidates, which are coming under the purview of the Competent Authority (Refer notes 1-5 given below for details). These are the minimum percentages of reservation exclusive of the backward class candidates securing allotment through General Merit by virtue of merit. Backward class candidates shall claim the category to which they belong to at the time of submission of application form for Centralized Admission.

Sr.No	Category of Reservation	Reservation %
1	Scheduled Castes and Schedule caste converts to Buddhism ( SC)	13.0
2	Schedule Tribes (ST)	07.0
3	Vimukta Jati (VJ)/De notified Tribes( DT) (NT-A)	03.0
4	Nomadic Tribes 1 (NT-B)	02.5
5	Nomadic Tribes 2 (NT-C)	03.5.
6	Nomadic Tribes 3 (NT-D)	02.0
7	Other Backward Classes (OBC)	19.0
	Total Reservation	50.0

**Reservation for Female candidates:**

As per the provisions in Govt. Resolution No. GEC-1000/ (123/2000)/ Tech. Edu.-1, dated 17 th April, 2000, 30% seats available for Maharashtra State CAP shall be reserved for female candidates in all the courses of the institutions coming under CAP. This reservation shall be applicable for General, SC, ST, DT/VJ (NT-A), NT-B, NT-C, NT-D and OBC categories. Seats reserved for Female candidates are available under 70% Home University seats ,30% Other than Home University seats and State Level seats coming under the CAP. There shall be no reservation for Female candidates under Defence, Persons with Disability and SBC categories.

**Institute Level Admission Process**

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Mathematics and Chemistry/Biotechnology/Biology/ Technical Vocational subject

AND

Secured minimum 50 % marks (minimum 45 % marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the subjects Physics, Mathematics and Chemistry/Biotechnology/Biology/ Technical Vocational subject added together. Merit list displayed by group marks.

AND

Diploma holders should have passed the Diploma course in Engineering/Technology with minimum of 50% marks (45% marks in case of candidates of Backward class categories and Persons with Disability belonging only to Maharashtra State) and medium of instruction as English from the AICTE approved Diploma Institutes affiliated to State Boards of Technical Education.

**Direct Second Year Admission Process**

The Candidate must be an Indian National and should have passed Post-SSC or Post-HSC Diploma Course in Engineering/Technology with at least 45 % marks (40 % marks in case of candidates of backward class categories and Persons with Disability belonging only to Maharashtra State) in appropriate branch of Engineering / Technology from an AICTE approved Institution with English as the medium of instruction at Diploma level.

OR

The Candidate must be an Indian National and should have passed B.Sc. Degree from a UGC / Association of Indian Universities recognized University with at least 45% marks (40 % marks in case of candidates of



Backward class categories and Persons with Disability belonging only to Maharashtra State) and passed XII standard examination with Mathematics as the subject and with English as the medium of instruction at B.Sc. level.

### **Master of Engineering Admission Process: (PG)**

The candidates should fulfill the following eligibility criteria:

1. Candidate should be an Indian National
2. Candidate should have passed/appeared\*\* Bachelor degree or equivalent in the relevant field of Engineering/Technology from State Governments/MHRD approved institutions, with at least 50 % Aggregate marks \* (at least 45% marks in case of candidates of Backward class categories and persons with disability belonging to Maharashtra State only)
3. The candidate should possess Bachelor degree in the relevant course of Engineering/Technology as specified in the eligibility criteria of the concerned University for which admission is being sought to a particular Post graduate degree course/specialization.
4. Having Positive GATE Score valid for the period 15th March 2015 to 14th March 2016 in respective qualifying branch

### **Candidature Type in CAP:**

The Candidature Type of the candidate plays an important role in the CAP. To be eligible as candidate, he/she has to have type of candidature as Type A or B or C or D status. The Candidature Type of the candidate can be determined as per the guidelines provided in Table 2. Candidate should carefully follow the guidelines and select their Candidature Type properly while submitting application form for CAP.

Type of Candidature for Maharashtra State candidates:

Sr.No	Type of Candidature /Eligibility
1	Type A
	a. Passing HSC and Qualifying examination (Bachelor Degree) from Maharashtra state. <div style="text-align: center;">OR</div> a. Passing Diploma in Engineering / Technology and Qualifying examination (Bachelor Degree) from Maharashtra State. <div style="text-align: center;">AND</div> b. Candidate is Domiciled or Born in the State of Maharashtra
2	Type B
	Does not satisfy as Type A But Candidate / Father or Mother of the candidate is Domiciled in the State of Maharashtra.

3	Type C
	Does not satisfy as Type A and Type-B But Father or Mother of the candidate is an employee of the Government of India or Government of India Undertaking who is posted and reported to duty in Maharashtra State before the last date for submitting the application for Admission.
4	Type D
	Does not satisfy as Type A, Type-B and Type-C But Father or Mother of the candidate is an employee of the Government of Maharashtra / Government of Maharashtra Undertaking.

#### **Reservation for Backward class Candidates:**

The percentage of seats reserved for candidates of backward class categories belonging to Maharashtra State are as per the details shown in Table 3. The percentages of reservation are the percentages of the seats available for Maharashtra candidates (Maharashtra State seats) who are coming under the purview of the Competent Authority in the Government/Government Aided/University Department / University Managed institutes/ Unaided Non-Minority Institutions. In Unaided Minority Institutes, there is no reservation for backward class category candidates; however reservation for backward class candidates can be implemented under CAP provided that the management of the institute gives the written consent. Backward class candidates from the Maharashtra State only as per candidature type defined above (Rule

3.2) shall claim the category to which they belong at the time of submission of CAP application form for Admission. These are the minimum percentages of reservation exclusive of the backward class candidates securing allotment through General Merit.

Table 3 Type of Reservation and Percentage of reservation

Sr.No	Category of Reservation	Reservation %
1	Scheduled Castes and Schedule caste converts to Buddhism ( SC)	13.0
2	Schedule Tribes (ST)	07.0
3	Vimukta Jati (VJ)/De notified Tribes( DT) (NT-A)	03.0
4	Nomadic Tribes 1 (NT-B)	02.5

5	Nomadic Tribes 2 (NT-C)	03.5.
6	Nomadic Tribes 3 (NT-D)	02.0
7	Other Backward Classes (OBC)	19.0
	Total Reservation	50.0

#### **Persons with Disability Candidates:**

As per the provisions in Clause 39 of Equal Opportunities, Protection of Rights and Full Participation Act, 1995, three percent (3%) seats of total sanctioned intake capacity of all the institutes shall be reserved for Persons with Disability candidates. These seats shall be within the sanctioned intake of the institute and reserved only for Maharashtra State Candidates.

Out of the three percent reservation for Persons with Disability candidates:

- PH-1: Visually impaired (blind) candidates (P1)
- PH-2: Speech and hearing impaired (dumb and deaf ) candidates, (P2)
- PH-3: Candidates with orthopedic disorders and learning disabilities, Dyslexia, Dyscalculia, Dysgraphia, Spastic (P3).

#### **Centralized Admission Process (CAP):**

For the academic year 2015-16, the Competent Authority shall conduct total three (3) rounds of Centralized Admission. The CAP shall consist of first two (2) rounds by Centralized Allotment wherein eligible candidates will fill separate Online Option form for each round. Third round of CAP shall be conducted for the eligible candidates by counseling. The Competent Authority shall allot the seats coming under its purview. Admissions of diversified courses for which GATE examination is not conducted shall be done at the respective Institute Level through Entrance Examination conducted by the respective Institute. Details of filling up & confirmation of Online Application form, filling up & confirmation of Option form for Rounds, eligibility for each round of CAP, method of reporting after each round, availability of seats for each round, Reporting to Institutes and other details are given in Annexure-I. Various documents to be produced by the candidate while attending the CAP are given in Annexure-II. Candidates should read carefully the details of CAP given in this Annexure and follow instructions given therein.

#### **CAP Rounds for Maharashtra State and OMS candidates**

##### **CAP Rounds I/II: Direct Allotment**

Allotment of seats for Sponsored and Non Sponsored seats coming under CAP is carried out as per the logic explained in the rule 6.1.3. Stage-I & Stage-II shall be used for CAP Round –I. Stage-I, Stage-II, Stage-III, Stage-IV, Stage V & Stage-VI for CAP Round II. The seat tag i.e. Reserved, PH, SP, NSP etc. shall be maintained till stage-V of CAP Round-II. The number of the available

seats for admission, type of seat tag etc. will be made available to the eligible candidates before filling up of the option form for CAP rounds I, II and III.

**CAP Round III- Admission by Centralized Counselling:**

CAP Round-III of admission will be conducted only for eligible Candidates whose names have appeared in General Merit list (subject to eligibility of participation as set out in the Annexure-I). During this round of DTE, Mumbai ME/M.Tech 2015 admission by Counseling, no seat tag will be applied i.e. seats available shall be treated as GENERAL seats and shall be allotted solely on the basis of inter-se merit of eligible candidates without any reference whatsoever to the category of the candidate(s) (open /reserved) or the category to which the vacant seat belongs (such as Sponsored, Non Sponsored, Backward Class, Physically Handicapped etc) and also all the vacant Sponsored Seats shall be treated as GENERAL seats and will be offered to candidates.

**Institute Level Seats:**

The institute level seats shall be filled in the order of preference as indicated in Annexure III. In case of Unaided Non-Minority Engineering Colleges including Autonomous Institutes 5% seats of sanctioned intake are reserved for sponsored category candidates and 15% seats of sanctioned intake for non-sponsored category candidates. The 15% seats of sanctioned intake for non-sponsored category candidates also include seats for NRI category candidates. If vacancies remain in sponsored category, then these vacancies may be filled from non-sponsored category candidates and vice versa. In case of Unaided Minority Engineering Colleges including Autonomous Institutes a Minimum of 51% sanctioned intake is reserved for non-sponsored and sponsored category candidates.



**Block No. 2**



**Block No. 3**



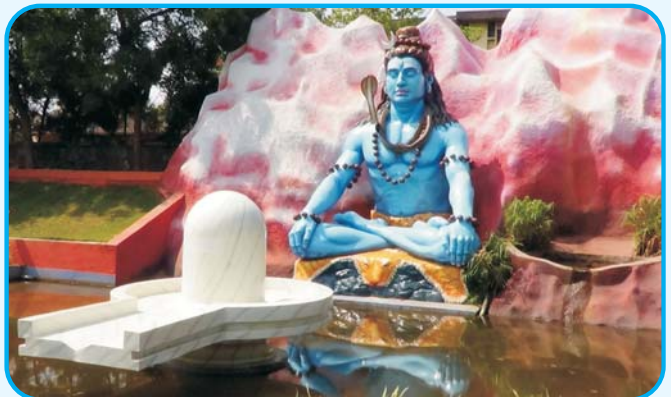
**Library**



**Auditorium**



**Indoor Stadium**



**Nilkantheshwar Garden**

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# Glimpses of TKIET



Golden Speech to TKIET Students  
by Former President & Scientist  
Late Hon. Dr. A. P. J. Abdul Kalam



Former President & Scientist  
Late Hon. Dr. A. P. J. Abdul Kalam  
During Inaugural Ceremony



Hon. G. D. Patil, (Secretary, SWVSM) briefing  
Hon. Rajesh Tope, (Higher and Technical Education Minister,  
Maharashtra) about Warana Education Complex



Distinguished Nuclear Scientist Dr. Anil Kakodkar's  
visit to Jaggery Making Project under Rajiv Gandhi  
Commission for Science & Technology (RGST)



Hon. Ujjwal Nikam,  
(Indian Public Prosecutor)  
Chief Guest at Annual Social Function



TKIET Family Felicitated for "Best Organizer  
- 43<sup>rd</sup> ISTE N.A.C. 2013" at College of Engineering  
Trivandrum, Kerala



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