

Self Study Report

(SSR)

Submitted to



National Assessment and Accreditation Council

Submitted by



K J's Educational Institute

K J College of Engineering & Management Research

(Approved by AICTE & Affiliated to Savitribai Phule Pune University)

Sr. No. 25 & 27, Pisoli, Near Bopdeo Ghat, Post- Yewalewadi,

Tal: Haveli, Dist: Pune 411 048 (Maharashtra)

Tel: 020-26934417, 69709009

Email: principalkjcoemr@gmail.com Website: www.kjei.edu.in/kjcoemr/

[September 2017]

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ABBREVIATIONS

AC	-	Academic Calendar
ACES	-	Association of Computer Engineering Student
ACR	-	Academic Class Representative
AICTE	-	All India Council for Technical Education
AMC	-	Academic Monitoring Committee
ARAI	-	Automotive Research Association of India
ARC	-	Application-Form Receipt Center
AY	-	Academic Year
BCUD	-	Board of College and University Development
BE	-	Bachelor of Engineering
BOS	-	Board of Studies
CAP	-	Centralized Admission Process
CCAO	-	Co-Curricular Activity Outcomes
CCTV	-	Closed Circuit Television
CEO	-	Course Educational Objectives
CESA	-	Civil Engineering Student Association
CET	-	Common Entrance Test
CGPA	-	Cumulative Grade Point Average
CIM	-	Computer Integrated Manufacturing
CIVIL	-	Department of Civil Engineering
CO	-	Course Outcomes
COMP	-	Computer Engineering
Cos	-	Course outcomes
CR	-	Class Representative
CSI	-	Computer Society of India
CT	-	Class Teacher
DA	-	Dearness allowance
DRDO	-	Defense Research and Development Organization
DSE	-	Direct Second Year
DTE	-	Directorate of Technical Education
E&TC	-	Electronics and Tele Communication
EBC	-	Economically Backward Class
EDC	-	Entrepreneurship Development Cell
EPF	-	Employees Provident Fund
ETESA	-	E&TC Engineering Student Association
FDP	-	Faculty Development Program
FE	-	First Year Engineering
FY	-	Financial Year
GATE	-	Graduate Aptitude Test for Engineering
GB	-	Governing Body

GFM	-	Guardian Faculty Member
GoM	-	Government of Maharashtra
GPS	-	Global Position System
GRE	-	Graduate Record Examinations
GS	-	General Secretary
HoD	-	Head of Department
HR	-	Human Resources
HTML	-	Hyper Text Mark-up Language
ICT	-	Information & Communication Technology
IEEE	-	Institute of Electrical and Electronic Engineers
IETE	-	Institute of Electronics and Telecommunication Engineers
I-I-I	-	Industry Institute Interaction Cell
IIT	-	Indian Institute of Technology
IQAC	-	Internal Quality Assurance System
ISTE	-	Indian Society for Technical Education
IT	-	Information Technology
JEE	-	Joint Entrance Examination
KJCOEMR	-	K J College of Engineering & Management Research
KJEI	-	Kalyan Jadhav Educational Trust
LAN	-	Local Area Network
LCD	-	Liquid Crystal Display
LED	-	Light Emitting Diode
LIC	-	Local Inquiry Committee
LMC	-	Local Managing Committee
Mbps	-	Megabits per seconds
ME	-	Master of Engineering
MECH	-	Department of Mechanical Engineering
MESA	-	Mechanical Engineering Student Association
MH CET	-	Maharashtra Common Entrance Test
MIDC	-	Maharashtra Industrial Development Corporation
MNC	-	Multi National Company's
MoU	-	Memorandum of Understanding
NA	-	Not Applicable
NAAC	-	National Assessment and Accreditation Council
NGO	-	Non Governmental Organization
NPTEL	-	National Programme on Technology Enhanced Learning
NSS	-	National Service Scheme
OD	-	On Duty
OMS	-	Out of Maharashtra state
OPAC	-	Online Access Public Catalogue
OS	-	Operating System
PAS	-	Public Address System
PC	-	Personal Computer

PDF	-	Portable Document Format
PEO	-	Program Educational Objectives
PEOs	-	Program Educational Outcomes
PG	-	Post Graduate
PhD	-	Doctor of Philosophy
PI	-	Principal Investigator
POs	-	Program Outcomes
PPT	-	Power Point Presentation
PR	-	Practical
R&D	-	Research and Development
SCS	-	Student Council Meeting
SLIM	-	System for Library Information & Management
SMS	-	Short Message Service
SN	-	Serial Number
SPPU	-	Savitribai Phule Pune University
STP	-	Student Training Programme
SWD	-	Social Welfare Department
T&P	-	Training and Placement Cell
TFWS	-	Tuition Fee Waiver Scheme
TH	-	Theory
TLP	-	Teaching Learning Practices
TOFEL	-	Test of English as a Foreign Language
TPO	-	Training and Placement officer
TW	-	Term work
UG	-	Under Graduate
UGC	-	University Grants Commission
UPS	-	Uninterrupted Power Supply
UR	-	University Representative
UV	-	Ultra Violet
VAP	-	Value Added Programme
VLSI	-	Very Large Scale Integration
W/S	-	Workshop
WiFi	-	Wireless Fidelity



K J EDUCATIONAL INSTITUTE'S
K J COLLEGE OF ENGINEERING & MANAGEMENT RESEARCH

Approved by AICTE, New Delhi & Affiliated to Savitribai Phule University of Pune (IDNo.PU/PN/Engg.378(2009)

DTE College Code - EN 6320, Web.: kjsedu.com

Dr. Suhas S. Khot
BE, ME, PhD (E & TC Engg.)
Principal

Shri. Kalyan J. Jadhav
M.Com (Hons.)
Founder President

Ref: KJEI/KJCOEMR/NAAC/2016-17/ 576

Date: 25/04/2017

To,
The Advisor,
National Assessment and Accreditation Council,
P.O.Box No. 1075, Opp. NLSIU,
Nagabhavi, Bangalore – 560 072

Subject: Submission of Self Study Report (SSR) Track ID: MHCOGN27259

Respected sir,

We are submitting herewith the Self Study Report (SSR) of K J College of Engineering and Management Research, Pune. We would like to inform you that the copy of SSR is also uploaded on our institute website for your kind perusal.

<http://kjei.edu.in/kjcoemr/SSR/2016-17/SSR.pdf>

Institute is ready for the accreditation and assessment by NAAC Peer Team. You are kindly requested to accept our SSR for further processing.

This is for your kind information and consideration please.

Dr. Suhas S. Khot
Principal



Campus : Survey No. 25 & 27, Pisoli, Near Bopdeo Ghat,
Tal. Haveli, Dist. Pune. Telephone : (020) 26934417
E-mail : principalkjcoemr@gmail.com, Web : www.kjeducation.in

Head Office : 408/10, 2nd Floor, "Purandar Complex",
Mukundnagar Industrial Estate, Pune 411030.
Telephone : 24269100, 24267100, Telefax : 91-20-24264379

NAAC STEERING COMMITTEE

SN	Name of Staff Member	Designation	Designation for Steering committee
1	Prof. (Dr.) Suhas S. Khot	Principal	Chairman
2	Prof. (Dr.) Vyasraj J. Kakhandki	Professor	Dean
3	Prof. Milindkumar S. Mali	Associate Professor Mechanical	Coordinator
4	Prof. Mininath K. Nighot	Associate Professor Computer	Co-Coordinator
5	Prof. (Dr.) Harishchandra R. Kulkarni	Professor & HOD FE	Member
6	Prof. Santosh K. Patil	Associate Professor & HOD Civil	Member
7	Prof. Pramod U. Chavan	Associate Professor & HOD E & TC	Member
8	Prof. Deepak C. Mehetre	Associate Professor Computer	Member
9	Prof. Pravin E. Ingle	Assistant Professor & HOD Mechanical	Member
10	Prof. Lalit Kumar	Assistant Professor & HOD Electrical	Member
11	Prof. Pramod Dastoorkar	Training & Placement Officer	Member
12	Mr. Sandip P. Panchbhai	Office Superintendent	Member

A-PREFACE

The technical education sector is growing rapidly in our country. The growth in quantity has to be matched with the developments on quality front. We understand that a good quality education is necessary to provide all learners with capabilities to build them economically productive, contribute to peaceful and democratic societies and enhance individual well-being. National Assessment and Accreditation Council (NAAC) have the objectives to facilitate the improvement of quality through accreditation.

K J College of Engineering and Management Research (KJCOEMR), Pune established in 2009 under the umbrella of KJ Educational Institutes (KJEI), with the vision to become a premier institute in the field of technical education. Holistic development of students and teachers is what we believe in and work for. We strive to achieve this by imbibing a unique value system, transparent work culture, excellent academic and physical environment conducive to learning, creativity & technology transfer. Our mandate is to generate, preserve, and share knowledge for developing a vibrant society. We believe that with the help of NAAC guidelines and procedures, it is possible to achieve our mission in the best possible way.

The institute runs five Under - Graduate programs (Bachelor of Engineering) and four Post Graduate programs (Master in Engineering). All these programs are approved by All India Council for Technical Education (AICTE), New Delhi, Directorate of Technical Education (DTE), Government of Maharashtra and Savitribai Phule Pune University, Pune (SPPU).

This Self Study Report (SSR) has been prepared based on information given by our faculty and staff. On the basis, we would like to apply for the assessment by NAAC. We, at KJCOEMR, are committed to complete the process of accreditation with the help of wholehearted involvement of each one of us.

Congratulations and thanks to the members of Steering Committee and the Internal Quality Assurance Cell (IQAC) for sharing the responsibility of drafting this SSR. All heads of the department, faculty, supporting staff of library and administrative office have taken lot of efforts and given their best of best services to satisfy all the stakeholders. This SSR reflects all the efforts taken by KJCOMER faculty and staff with strong support of the management.

PRINCIPAL

B - EXECUTIVE SUMMARY

K J College of Engineering and Management Research (KJCOEMR), Pune established in 2009, under the umbrella of KJ Educational Institutes (KJEI), Pune with the vision to become a premier institute in the field of technical education. KJCOEMR is a premium self-financed institute with necessary infrastructural facilities in place to support all academic activities in each department. The institute is focused for its highest academic excellence and committed to provide quality education. Teaching Learning Practices (TLP) in all the departments are streamlined for the improvement of academic performance and holistic development of the students. Learning methodology, quality in teaching, planning, and flexibility in working are the integral part of culture and practices at KJCOEMR. Various activities entrust our students with the required skills to command in dynamic and challenging global environment.

Criterion I: Curricular Aspects

KJCOEMR is affiliated to the SPPU and follows the curriculum stated by the university. Faculty members participate in the curriculum design workshops conducted by the university and also organizing Faculty Development Programs (FDP) at the institute. Feedback from industries and alumni with respect to curricular aspects are helping the departments while designing the syllabus and enrichment courses to be given to the students. As the institute follows SPPU syllabus, limited flexibility is available in curricula design with few elective subjects that can be offered as per the choice of final year students.

Every department frames the academic calendar to nurture the students in right direction. Experienced faculty and staff are putting their efforts to enable students to get good academic performance in the university examinations. Continuous monitoring of syllabus coverage by individual faculty and assessment of students at proper stages of the semester, helps in achieving consistent improvements. Student Training Programme (STP) conducted is used to bridge the gap between curriculum and industry. Seminars, workshops, site visits, tie-ups through Memorandum of Understanding (MoU) with industries, industrial visits, participation in various technical activities and Value Added Programmes (VAP) are also helping the students to learn beyond the syllabus. Various certificate courses are conducted for professional development of the students.

Criterion II: Teaching-Learning and Evaluation

The institute follows admission process as per the guidelines given by Government of Maharashtra (GoM) under the aegis of State CET Cell and the Directorate of Technical Education (DTE), through Centralized Admission Process (CAP). Admitted students are coming from diversified background as per the reservation policy. The institute has a strategy to support the students to get financial assistance from GoM, various Non-Government Organizations (NGOs) and facilitate them by providing required documents and proper follow up.

Qualified, experienced and competent faculty of KJCOEMR has developed an effective TLP to transfer the knowledge to the students. All the departments of the institution systematically

develop action plans for effective implementation of the curriculum considering the SPPU academic calendar, KJCOEMR policies and administrative decisions. A healthy and conducive working environment at institute has made every faculty to build a quality in imparting the academics. All the students get academic and personal guidance and livelihood counseling from the concerned Guardian Faculty Members (GFMs), Class Teachers (CTs) and Heads of the Departments (HoDs).

The TLP is monitored and governed by Academic Monitoring Committee (AMC). Faculty members are encouraged and financially supported to participate in seminars, workshops, conferences, etc. for improving their knowledge and qualification. The salary is paid as per the pay scale defined by the AICTE and GoM.

The examination reforms, structure and evaluation processes of SPPU as well as KJCOEMR are known to the students and informed them from time to time. The institute has developed formative and summative continuous assessment methods of students for ensuring the attainment of stated graduate attributes. The institute has defined Programme Educational Objectives (PEOs) and Programme Outcomes (POs) for each programme. The student performance in university examinations and enhancement in placement indicates achievement of learning outcomes of programmes.

Criterion III: Research, Consultancy and Extension

The institute promotes research culture across the faculty and students by facilitating and motivating them to participate in research and related activities. The Research and Development (R&D) cell of the institute is taking initiatives to develop research environment in every department. While doing so, faculty and PG students are encouraged to publish research work in reputed journals and conferences. Students are also actively involved in innovative projects and participating in various competitions.

Board of College and University Development (BCUD) of SPPU supports research activities of the institute by providing research grants in addition to the provision of seed money in the annual budget of the institute. The R&D cell has a plan to conduct multidisciplinary projects and cultivate research approach. An interaction with research organizations and industries also gives platform to take live problems of the society while doing research activities.

Criterion IV: Infrastructure and Learning Resources

Institute has sufficient infrastructure and state-of-the-art laboratories in every department as per the AICTE norms for quality TLP and R&D. The campus is supported with hostel for boys along with the necessary facilities. Classrooms are equipped with LCD projector facility. The computing facility within the campus is supported by LAN, high speed internet connectivity with Wi-Fi facility.

The institute library consists of 6308 reference books and 19546 volumes along with e-journals. The reading hall facility is available for all the students. Library with computing and internet facility gives easy access to Science Direct, IEEE, ASME, ASCE and SPRINGER.

Institute encourages the students to participate in various sports tournaments. Students avail indoor sports facilities in the campus. A platform has been provided to the students to experiment their innovative projects while participating at national and international competitions. Cultural activities of the students are also encouraged in the institute by providing them financial and infrastructural support.

The institute has standby arrangement of 500 kVA Diesel Generator (DG) to satisfy the need of electric power at the institute. The institute has a committee to supervise the maintenance of the equipment and computing facilities of the institution.

Criterion V: Student Support & Progression

The institute facilitates students to get scholarships from Social Welfare Department (SWD) of GoM and various NGOs. Financial support is available to economically weaker students through 'Earn and Learn' scheme of SPPU. The institute has accidental insurance policy for all the students. Students are availing support services and facilities of the institute while completing their academics as well as preparing themselves for civil services, competitive examinations and higher studies. Extra-curricular and co-curricular activities promoted by the institute are acting as a catalyst for the holistic development of the students and their personality.

The regular academic activities are very well supported by the GFM scheme. This scheme is not only monitoring the academics of the students but also supports in solving their individual problems. To give opportunity and platform to advanced learners and students interested in sports, KJCOEMR organizes annual sports, technical and cultural events called "K J Youth Fest". All these events are organized by students' council established at the beginning of every academic year. Our students have excelled in sports at University, state and national level.

Anti-ragging committee, Women's Grievance Redressal cell, committee for Sexual Harassment of women at work place and disciplinary committee have been established to take care of students. The registered alumni association of college is functioning actively. Institute organizes alumni meet and their interaction throughout the year by inviting them in their respective departments to guide the current students. The Training & Placement Cell (TPC) of the institute is well supported by all the departments while giving campus placement and career guidance to the students.

Besides organizing remedial classes for slow learners, institute also organizes personality development and communication skills enhancement programs. VAPs are also organized in every department for the awareness of new technologies to bridge the gap between academics and industry. Industrial visits and site visits are also integral part of our regular academics.

Criterion VI: Governance, Leadership and Management

The management of KJCOEMR plays important role to provide excellent infrastructural facilities and healthy teaching - learning environment. Principal along with all HoDs provide academic leadership and try to percolate the qualities of leadership amongst faculty, staff and students.

HoDs in consultation with Principal decide strategies of individual department. They also take review of academics, research, placement and execution of various activities of all the departments. The parameters of performance appraisal system of faculty and staff are in place to evaluate and ensure the effectiveness of the individual. Various sources of feedback are available to the management from stakeholders that are used to ensure reinforcement of the culture of excellence. Welfare scheme is available at the institute for faculty and supporting staff has resulted into sense of ownership and their retention.

The financial plan of the institute reflects in the annual budget based on requirements of non-recurring and recurring expenditures. Every department prepares their budget depending upon the curriculum requirements. The institute has mechanisms for internal and external audit to ensure the budget utilization and proper documentation with respect to books of account.

The institute has a perspective development plan to become center of excellence in the field of technical education and research. The plan also consists of activities for making association with industry and do research in collaboration. The proposed IQAC with existing AMC has significant role in achieving academic excellence.

Criteria VII: Innovation and Best Practices

The institute is committed to adopt environment-friendly policies with regard to plantation, waste management, use of renewable energy sources and water harvesting. Various activities like students awareness programs for energy, water conservation systems, and waste water recycling mechanisms are carried out to maintain the campus eco-friendly. Every year the institute organizes and celebrates environmental awareness campaigns of World water day, Ozone day, Earth hour day etc. The different types of e-waste generated in the institute are collected and dispensed to an external e-waste recycling agency.

For the excellence of academics and administration, institute has implemented various innovative practices such as uniform file system for documentation across all the departments, GFM scheme for counselling of students, acknowledgement of efforts taken by the faculty for academic excellence.

One of the best innovative practices – Role of an Engineer in the Society: Awareness and practice through National Services Scheme (NSS). The goal is to build up engineers with the strength of professionalism and conscientious citizenship. The other best innovative practices - Employability Skill Development Programme by Zensar Technologies (ESD) ZENSAR – ESD, is being implemented to enhance the quality of the students by empowering them with skills for their holistic development. Implementation of STP has shown remarkable effect on overall development of students and their placement.

SWOC ANALYSIS OF THE INSTITUTE

Strengths

- Well equipped laboratories and infrastructure
- Student centric learning environment
- Transparent and conducive work environment
- Consistent good academic performance
- Effective team work culture
- Support to faculty for pursuing higher education
- Library with ample number of books, reading hall and digital access
- High speed Internet with Wi-Fi facility
- Participation of students in technical, cultural and sports activities
- Parental care of the students through GFM
- Emphasis on holistic development of students

Weaknesses

- Number of faculty with Ph.D. qualification
- Number of research publications in reputed journals and Patents
- Moderate industry institute interactions
- Consultancy and extension activities
- Low strike rate in placement

Opportunities

- Center of excellence in specific domains
- Inter-disciplinary approach
- Development of web based learning mechanisms
- Networking with institutes of national and international repute
- Alumni network to enhance the academic and placement activities
- Collaborative research with corporate world
- Enhancing student's placements in renowned industries
- Establishment of incubation center

Challenges

- Enhancing employability skills as per industrial need in an affiliated institute
- Attract meritorious students at national level
- Dynamic curriculum that acclimatizes new technologies
- Adaptability to globally changing industrial scenario

C –PROFILE OF THE INSTITUTE

1. Name and Address of the College:

1. Name and Address of the Institute:

Name:	K J College of Engineering & Management Research		
Address:	Sr. No. 25 & 27, Pisoli, Near Bopdeo Ghat, Post- Yewalewadi, Tal: Haveli, Dist: Pune		
City:	Pune	Pin:411048	State: Maharashtra
Website:	http://www.kjei.edu.in/kjcoemr/		

2. For Communication:

Designation	Name	Telephone With STD code	Mobile	Fax	Email
Principal	Dr. Suhas S. Khot	O: 020-69709009	9881196166	02026934423	principalkjcoemr@gmail.com
Steering Committee Co-ordinator	Prof. Milindkumar S. Mali	O: 020-26934417	9689901156	02026934423	msmali74@gmail.com
Steering Committee Co-Coordinator	Mr. M. K. Nighot	O: 020-26934417	9421731443	02026934423	imaheshnighot@gmail.com

3. Status of the Institution:

Affiliated Institute

☒

Constituent Institute

Any other(specify

4. Type of Institution:

a. By Gender

i. For Men

ii. For Women

iii. Co-education

☒

b. By Shift

i. Regular

ii. Day

iii. Evening

☒

5. It is a recognized minority institution?

Yes

No

☒

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

NA

6. Sources of funding:

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

7. a. Date of establishment of the college: 11/06/2009

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

college (If it is a constituent college)

Savitribai Phule Pune University, Pune

c. Details of UGC recognition:

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

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

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

S.R.	Course	Year of Affiliation	AICTE Approval No.	Government G.R. No.	University Affiliation Letter No.
01	Mechanical Engineering	2009 – 2010	F. No: 06/07/Ms Engg/2009/24 Dated :11/06/2011	GEC-2009/(60/09)/Tanshi-4 Dated : 15/06/2009	CA/5774 Dated : 24/09/2009
02	Civil Engineering	2009 – 2010			
03	Computer Engineering	2009 – 2010			
04	Electronics & Telecommunication Engg.	2009 – 2010			
05	Electrical Engineering	2010 – 2011	F. No: 37/03/Ms Engg/2010 Dated :23/08/2010	Sankirn 2010/(188/2010)/Tanshi-4 Dated : 27/08/2010	CA/1557, Dated: 04/05/2011
06	DSE Electronics &	2012 – 2013	F. No: 37/03/Ms	Sankirn2012/98/	CA/3217,

	Telecommunication Engg		Engg/2010 Dated :10/05/2012	Tanshi-4 Dated : 30/06/2012	dated: 25/10/2012
07	DSE Mechanical Engg.	2013 - 2014	F. No: Western/1- 1412722042/2013/ EOA Dated :19/03/2013	TEM2013/177/T anshi-4 Dated : 15/05/2013	CA/3741 dated: 24/03/2014
08	Mechanical Engg. (120-180)	2014-2015	Western/1- 2018746075/2014/ EOA/Date :04 June 2014	TEM-2014/S.N 151 (B) Tanshi -4 Date :03/07/2014	CA/7496 Dated: 11/07/2014
09	DSE- Mechanical Engg. (60-120)	2014-2015	Western/1- 2018746075/2014/ EOA/Date :04 June 2014	TEM-2014/S.N 151 (B) Tanshi -4 Date :03/07/2014	CA/7496 Dated: 11/07/2014

(Enclosed here cognition/approval letter)

(The recognition/approval letters are enclosed in Annexure- II, III & IV)

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

Yes ☒ No ☐

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

Yes ☐ N ☒

9. Is the Institute recognized

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

Yes ☐ N ☒

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

b. For its performance by any other government agency?

Yes ☐ N ☒

If yes, name of agency

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

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

Location*	Rural
Campus area in sq.mts.	43948 Sq. mts
Built up area in sq.mts.	21736 Sq. mts.

(*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			√	
Sports facilities:			√	
Playground			√	
Swimming pool				
Gymnasium			√	
Hostel			√	
Boys’ hostel			√	
Number of hostels			01	
Number of inmates			250	
Facilities(mention available facilities): ✓ Loading and Boarding ✓ Electricity Generator Backup ✓ Laundry ✓ Wi-Fi				
Girls’ hostel			NO	
Number of hostels			-	
Number of inmates			-	
Facilities (mention available facilities)				
Working women’s hostel			No	
Number of hostels				
Facilities (mention available facilities)				
Residential facilities for teaching and non-teaching staff (give numbers available—cadre wise) Principal (01), Faculty (04), Supporting Staff (11)			√	
Cafeteria			√	
Health center			√	
First aid, Inpatient, Outpatient, Emergency care facility, Ambulance.....			√	
Health center staff			√	
Qualified doctor	Fulltime		Part-time	√

Qualified Nurse	Fulltime		Part-time	√
Facilities like banking, post office, book shops				√
Transport facilities to cater to the needs of students and staff				
Animal house				
Biological waste disposal				√
Generator or other facility for management/regulation of electricity and voltage				√
Solid waste management facility				√
Waste water management				
Water harvesting				

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

Sl. No.	Program me Level	Name of the Programme/ Course	Duration	Entry Qualificati on	Medium of instructio n	Sanctione d/ approved Student strength	No. of student s admitt ed
01	Under- Graduate	Civil Engineering	04 Years	12 th Pass	English	120	09
		Computer Engineering	04 Years	12 th Pass	English	120	58
		Electrical Engineering	04 Years	12 th Pass	English	60	00
		Electronics and Tele-communication Engineering	04 Years	12 th Pass	English	60	00
		Mechanical Engineering	04 Years	12 th Pass	English	180	04
		Electronics and Tele-communication Engineering - DSE	03 Years	B.Sc/Diplo ma Pass	English	60	6
		Mechanical Engineering - DSE	03 Years	B.Sc/Diplo ma Pass	English	120	30
02	Post- Graduate	Computer Engineering	02 Years	BE/B.Tech Pass	English	24	04
		Computer Networks	02 Years	BE/B.Tech Pass	English	24	03

		Design Engineering (Mechanical)	02 Years	BE/B.Tech Pass	English	24	01
		Structural Engineering (Civil)	02 Years	BE/B.Tech Pass	English	24	24

13. Does the institute offer self-financed Programmes?

Yes

No

☒

If yes, how many?

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

Yes		No	√	Number	
-----	--	----	---	--------	--

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

Faculty	Departments (Eg. Physics, Botany, History etc.)	UG	PG	Research
Science, Arts, Commerce	NA			

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

a.	Annual system	
b.	Semester system	08
c.	Trimester system	

17. Number of Programmes with

a.	Choice Based Credit system	
b.	Inter/Multi disciplinary Approach	
c.	Any Other	

18. Does the Institute offer UG or PG programmes in Teacher Education?

Yes

No

☒

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

Yes

☐

No

☒

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

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC/University/ State Government <i>Recruited</i>	01	0	0	0	43	31	NA	NA	NA	NA
<i>Yet to recruit</i>	15	8	29	15	81	44	NA	NA	NA	NA
Sanctioned by the Management/ society or other authorized bodies <i>Recruited</i>	8	0	11	2	15	20	19	4	20	6
<i>Yet to recruit</i>	6	8	18	13	25	2	0	0	0	0

21. Qualifications of the teaching staff:

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc./D.Litt	0	0	0	0	0	0	0
Ph.D.	5	0	0	2	0	0	7
M.Phil.	0	0	0	0	0	0	0
P.G.	0	0	11	0	58	51	120
Visiting Professor							
Ph.D.	4	0	0	0	0	0	4
M.Phil.	0	0	0	0	0	0	0
P.G.	0	0	0	0	0	0	0
Part Time Teachers							
Ph.D.	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0
P.G.	0	0	0	0	0	0	0

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

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

Categories	2013-14		2014-15		2015-16		2017-18	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	74	15	86	74	15	86	48	9
ST	0	0	1	0	0	1	7	2
OBC	298	43	353	298	43	353	263	31
General	892	239	1002	892	239	1002	935	141
Others	158	33	282	158	33	282	115	10

24. Details on students enrollment in the Institute during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same State where the Institute is located	1513	48	NA		1561
Students from other states of India	0	0			0
NRI students	NA				-
Foreign students					-
Total	1513	48	-	-	

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

UG PG

26. Unit Cost of Education: (Unit cost=total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) Including the salary component

(b) Excluding the salary component

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

Yes No

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

Teacher – Student ratio for: **UG – 1:15 & PG–1:12**

29. Is the Institute applying for

Accreditation:	Cycle1	√	Cycle2	-	Cycle3	-	Cycle4	-
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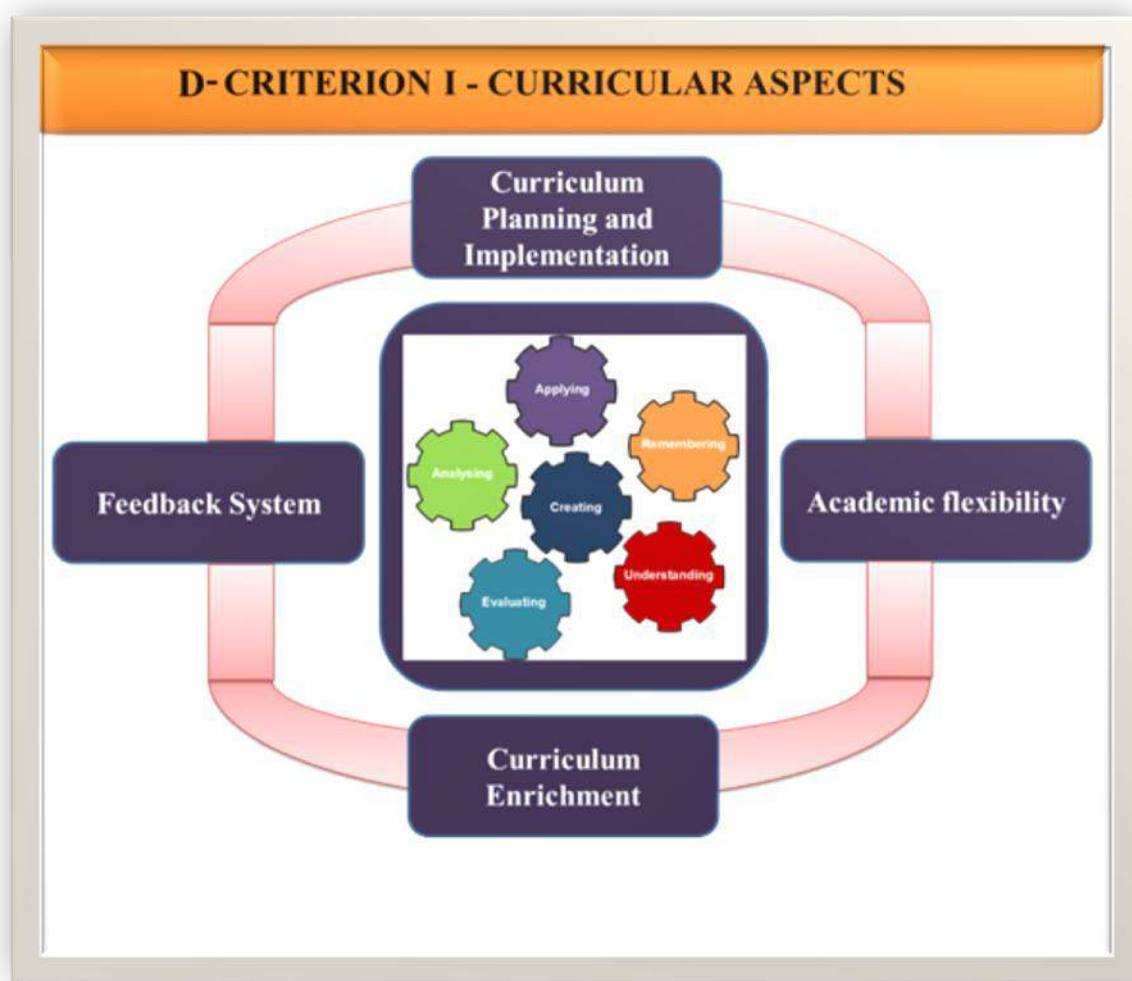
30. Date of accreditation *(applicable for Cycle2, Cycle3, Cycle4 and re-assessment only) – NA

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

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

180

33. Date of establishment of Internal Quality Assurance Cell (IQAC): Yes. IQAC is established on 01/07/2017. Currently AMC is looking after the quality performance of the academics.
34. Details regarding submission of Annual Quality Assurance Reports to NAAC. – NA



CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

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

Vision: - “To be a premier knowledge center of the nation for socio-economic development”

Mission: - “To provide education that combines rigorous academics with joy of discovery through sustained efforts and dynamic strategies in building innovative, participatory, problem based learning practices and research that leads to capacity building of the students.”

Goals and Objectives of the institution:-

- To achieve quality academic performance of the students at University examinations by implementing adaptive and effective T-L-P.
- To ensure all-round development of students by providing STPs and VAPs.
- To motivate students to participate in various technical, sports, co-curricular and extra-curricular activities.
- To inculcate a research culture in faculty and students and encourage them by providing state-of-the-art research facilities and Industry Institute Interaction (I-I-I).
- To motivate faculty and staff to improve their qualifications and make themselves suitable in the new era of education.
- To update the knowledge of the faculty by giving them a consistent up-to-date awareness of new technologies through FDP and Train the Trainer (TTT) Program.
- To inculcate moral integrity in students and make them socially responsible and good human beings.

Communication to Stakeholders:-

The vision, mission and objectives of the institution are communicated to students, staff and other stakeholders. These statements are communicated to the students and staff through college brochure, displaying it at Principal office, department, office, Library, Training and Placement Cell and website of the institute. For the newly admitted students of UG and PG, it is communicated through the induction program by distribution of information brochures.

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

The institution develops action plan for the effective implementation of the curriculum. At the beginning, the Principal conducts meetings with all HoDs to develop strategies for effective implementation of the curriculum. For effective implementation of the curriculum, the following process are developed and deployed.

Along with the University curriculum, every department also plans meticulously for various activities throughout the semester to achieve the overall development of students. The execution

model of Teaching Learning flow chart of the all departments has been summarized in **Figure 1.1.1**

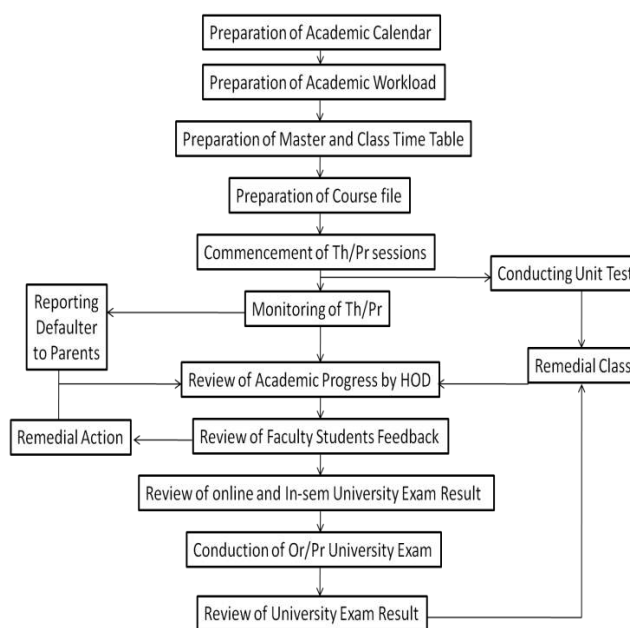


Figure: 1.1.1 Teaching Learning flow chart

- For a group of around 20 students, a teacher is allocated as Guardian Faculty Member (GFM). GFM conducts a weekly meeting and does the analysis of weak students. He/She also addresses the non-academic issues of the students. Functioning of GFM activities is monitored by respective HoD.
- Periodical online feedbacks are taken from the students on aspects of teaching-learning during each semester for each subject. According to feedback the teaching-learning process is improved.
- Resource planning is carried out before commencement of the each semester. Stock verification of laboratories, the need of new instruments and software's and maintenance of existing instruments is identified. Quotations are called and comparative statements are prepared before new purchases are made.

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

The support given by the institute to the faculty for effectively translating the curriculum and improving teaching practices has been summarized in **Figure: 1.1.3**.

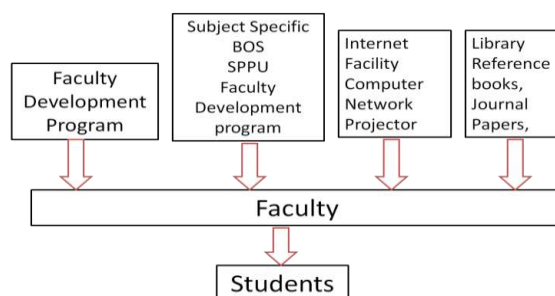


Figure: 1.1.3 Support given by the Institute to the Faculty

- **Training of Faculty:** While effectively translating the curriculum and improving T-L-P, the institute helps faculty by giving appropriate training through TTT program. The institute also conducts various FDPs, workshops, seminars on behalf of SPPU.
- **Modern teaching aids:** The faculty uses modern teaching aids such as multimedia, LCD for conduction of classes more effectively.
- **Internet facility and digital library:** The faculty members are facilitated with internet facility and digital library to prepare their course materials. The institute library is also well equipped with text and reference books and other reference materials such as e-journals, magazines to ensure the availability of subject matter while preparing the course assigned to the faculty.
- **Counseling by senior faculty:** Senior faculty member having more experience in the subject of interest acting as mentor and gives guide lines to newly joined faculty members while preparing the subject matter.

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.

The initiatives made by the institution for effective curriculum delivery and transaction on the curriculum provided by the SPPU are as follows.

- The institute motivates teachers to attend the teacher's training programs and orientations, workshops conducted by SPPU after every revision of curriculum.
- The institute provides the required infrastructure such as computing facility, internet facility, and LCD projectors for effective delivery of the contents of the curriculum.
- The institute organizes technical competitions and project exhibitions to motivate the students to produce better projects.
- The In-semester progress of students in theory class is evaluated by conducting unit tests, Preliminary examination and tutorials periodically.
- The institute arranges industrial visits for the students to explore current practices in the industry.
- The institute has a system to take periodic student feedback and review of academic activities for constant improvement in teaching learning process.
- Progress of laboratory work is monitored by continuous assessment.

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

The institute has established a good network with its beneficiaries such as industry, alumni, the University and the other institutes affiliated to SPPU.

- Industrial visits are arranged to improve I-I-I and to help students in smooth transaction from theory to application.
- Making students familiar with the operational environment, practices in the industry.
- The institute has student chapters of research bodies such as ISTE, SAE, IETE, CSI, IEI etc.

- The teachers of institute actively participate in different academic activities including the design of curriculum, examination work, conduction of teacher training programs, workshops.
- The teachers of institute receive research grants from SPPU for in-house research projects.
- The institutes have state of the art laboratories to and from other affiliated institutes for effective delivery of curriculum and training of teachers and students.
- The college has a separate well organized training and placement cell that maintains professional relations with industry people. Through this placement cell, the college students are taken for industrial visits in order to gain practical exposure. The T&P cell organizes campus placements to help students in advancing their careers. Industry professionals are regularly invited for sharing their knowledge with the students.

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

The college has earned its reputation as one of the renowned affiliated colleges under the SPPU. Most of the senior faculties of our college have served in the University under various capacities like paper-setters for UG and PG, moderators, examiners and chairman of UG & PG papers. We give maximum importance to student's feedback and our alumni are also involved in the feedback process. The detail flow of process is given in **Table 1.1.6**.

Table 1.1.6: Faculty Involved in University Curriculum development

SN	Dept	Name of Faculty	Role (subject chairman/ subject expert/ syllabus preparation)
01	E & TC	Mr. P. U.Chavan	Chairman, Paper Setter
02	E & TC	Mrs. P. P.Chavan	Chairman, Paper Setter
03	MECH	Dr. A. M. Kate	BOS Member
04	MECH	Dr. V. J. Kakhandki	BOS Chairman
05	MECH	Mr. L. S. Pawar	OSD SPPU
06	MECH	Mr. C. M. Gajare	Paper Setter
07	MECH	Dr. S. B. Wadkar	BOS Member
08	MECH	Mr. A. S. Kabule	Exam Officer , Paper Setter
09	CIVIL	Mr. S. K. Patil	Paper Setter, CAP Director
10	CIVIL	Mr. S.V. Wagh	Paper Setter
11	COMP	Dr. S. J. Wagh	BOS Chairman
12	COMP	Mr. D. C. Mehetre	Chairman, Paper Setter
13	COMP	Mr. M. K. Nighot	Chairman, Paper Setter
14	COMP	Mr. V. B. Maral	Exam Officer ,Paper Setter
15	COMP	Prof M.P. Kharche	UOP vigilance squad
16	FE	Dr. H. R. Kulkarni	BoS Member, Question bank Preparation
17	FE	Prof. M. S. Mali	Question bank Preparation

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.

All the courses offered are under the affiliation of SPPU. Any changes / upgradation in the curriculum are handled by the University in consultation with members of BoS and suggestions incorporated from affiliated institutions. In addition to this, the institution strives towards the overall development of students and quality enhancement of learners through various, orientation and life skills enrichment programmes. The institute also offers specific skill-based programs to the students to prepare themselves while designing and implementing their final year projects and placement which is run by Zensar, Persistent. CATIA V6: Certificate Course in CATIA V6 was conducted by Satav Technology, Pune and organized.

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

Methods of analysis to ensure that the stated objectives of curriculum are achieved in the course of implementation are as follows:

- Every faculty member concentrates on **PEOs and POs** defined by the University.
- The course file consisting of lesson plan is in line with PEOs. There are six units in the curricula of every subject. The online multiple choice question examination of SPPU is conducted on first four units for first year and second year students.
- In-semester examination is conducted on first three units to third and final year students. The **Table 1.1.8** shows the theory subject examination scheme in detail.

Table 1.1.8 University Examination Scheme

Year	Marking Scheme			
	Online I on unit-I and unit-II Online II on unit-III and unit-IV for FE-SE	In-Semester on first 3 units for TE-BE	End-Semester on all 6 units	TOTAL
FE	50	NA	50	100
SE	50	NA	50	100
TE	NA	30	70	100
BE	NA	30	70	100

- The department analyses the results of online examination and in-semester examination of all the subjects immediately after the conduction of respective examination. This analysis gives an idea of performance of the students in terms of stated PEOs. The analysis also helps in understanding the weaker students within the class for specific subject for which the remedial classes are to be conducted.
- Every practical assignment performed by the student is evaluated after the completion of experiment. The students are supposed to submit assignment of every experiment in terms of journal. At the end of semester, internal mock practical/oral examination is conducted to understand the preparation of the students for University practical/oral examination. The remedial practical sessions are conducted for proper understanding of experiments by the students. The overall process of execution of practical sessions provides continuous evaluation of students, which is used while giving the term work marks to the students.

- The process of evaluation, analysis and remedial actions help the departments in understanding the achievements of the stated objectives of every subject of the curriculum.

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.

The objectives of the certificate/diploma/ skill development courses, etc., offered by the institution are as follows:

- To enhance the awareness of the technical domain this is not included in University syllabus.
- To make engineers to respond to the current and future needs of the industry.
- To create the interest in higher studies as well as research.
- To add value in their overall knowledge.
- To provide the skill sets that are required to become a superior engineer.

Details of the certificate/diploma/ skill development courses, etc., offered by the institution;

- The institute has signed MoU with Zensar, Persistent, Monster and CAD CAM guru etc.
- In every semester of final year, more than four subjects are available as elective subjects and students can opt one of them based on their choice to provide the academic autonomy.
- Apart from the programs affiliated to SPPU, the institute offer courses which basically serve the purpose of value addition. These courses are specifically for third year and final year students in order to enhance the employability skills, equip them with technical skills under I-I-I.
- The institute organized the technical event like technical competition in YOUTH FEST, BOOTCAMP, GRAVITY and national conference to enhance the awareness of the technical domain for the students.

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

No, the institute does not provide any twinning/dual degree.

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**

Range of Core / Elective options offered by the University and those opted by the college: To increase the generic attributes applicable to student career, the SPPU offers compulsory core subjects along with a wide range of elective subjects from which the college/department option for elective subject based on the prospects to acquire knowledge and have a potential for benefitting academic development culminating into a career of their choice. The SPPU also offers open elective subject, which is designed by the department in consultation with industry experts based on current need and then approved by the University board of studies and offered to the students.

Courses offered in modular form, Credit transfer and accumulation facility: The institute is affiliated to SPPU, hence follows the academic structure as offered by SPPU in which credit transfer and accumulation facility is not offered.

Enrichment courses

- Every department of the institute conducted skill based training programs or enrichment courses with or without the collaboration of industry to enhance employability skills.
- Students get help from staff members regarding preparation of competitive examination like UPSC, MPSC and GATE.

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

No, the institute does not offer any self-financed programmes.

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 institute provides additional skill oriented programs related to the regional and global employment markets are as follows;

- All departments of the institute offer different VAP for final year students through external agencies for enhancing the employability. These programs are in-line with the requirement of the student’s interest as well as the industry needs.
- The institute has signed MoU with Zensar, Persistent, Monster and CAD CAM guru etc.
- The institute has arranged three days workshop under EDC.
- In every semester of final year, more than four subjects are available as elective subjects and students can opt one of them based on their choice to provide the academic autonomy.

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, the University does not offer any such courses.

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?

All the academic programmes of institute follow the curriculum prescribed by SPPU. To supplement the University curriculum the institute conducts following activities:

- Arranging guest lectures.
- Organizing workshops and seminars.
- Conducting soft skill programmes
- Conducting remedial classes for slow learners.
- Organizing site visits and industrial tours
- Organizing skill development activities like aptitude tests by Vani institute, Zensar employability skill development (ESD) training.
- Allow students to participate in competitions like BAJA and SUPRA.
- Organizes technical events like GRAVITY, Spiritua, Mechximus, Boot-camp, and national & international conferences.

Each department while executing the University curriculum prepares their own academic calendar semester wise as well as follows institute wise academic calendar. The institute and every faculty make sure that the curriculum framed by the University is implemented to get best of the best performances in SPPU examinations. In addition, every student develops his or her personality to compete in the global market. All are performing their duties in such a way that the output of their work reflects the Vision and Mission of the institute.

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

Efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students by the institute strictly follow a syllabus designed by SPPU and while conducting lectures by the faculty they enrich it with their own expertise and experience so that the students develop employable qualities that enable them to get jobs in this highly competitive world.

The TPO of institution is constantly in contact with different companies. TPO forwards the skills required by companies to HoD, according to that, activities are arranged for students. Students undergo internship programs and industry training. The institute also takes help of internal faculty and professionals for improving the soft skills of the students.

Every department has its student associations like Civil Engineering Student Association (CESA), Association of Computer Engineering Students (ACES), Mechanical Engineering Student Association (MESA), Electronics & Telecommunication Engineering Student Association (ETESA) and Electrical Engineering Student Association (EESA). These associations supplement the University curriculum by organizing co-curricular activities which help to develop leadership and managerial skills in the students.

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

The efforts made by the institution to integrate the cross cutting issues are as follows:

- The institute has established a 'Women's Grievance Cell' to make aware the students and employees on gender issues, make them alert of the social, moral, and legal implication of gender discrimination, encourage value education upholding gender equality, and at the same time to deal with instances of sexual harassment on campus. The cell is committed for creating and maintaining an environment in which students, teaching and non-teaching staff can work together in an atmosphere free of gender violence, sexual harassment, and gender discrimination.
- Anti-ragging committee, Student grievance cell sensitize students about gender equality and to solve their problems. These committees consist of Principal, HoDs, senior faculty members and students.
- Earn and Learn scheme is implemented at the Institute as per guidelines of SPPU, where students from economically weaker sections work after college hours and benefited through this scheme.
- Scholarship schemes from Govt. Maharashtra are implemented as per the norms, also institute trust gives scholarship to scholar students.
- The college organizes various programmes under the NSS so as to sensitize students about gender equality.

List of activities conducted by NSS are shown in **Table 1.3.3**

Table 1.3.3: Student Activities supported by the Institute

SN.	Activity Details	Date
1	Tree Plantation	02/09/2013
2	Teachers Day Celebration	05/09/2013
3	Blood Donation Camp	22/09/2013
4	Women empowerment	04/10/2013
5	Blood Donation Camp was organized on the birthday of president Mr. Kalyan Jadhav in the KJEI campus	24/01/2014
6	Ground Cleaning preparation for Independence Day	25/01/2014
7	Street play on Women Empovement and Society Awareness	26/01/2014
8	Self Defense workshop by Hemant Kshirsagar for Girls and Lady Faculty members	18/02/2014
9	Candle march in memory of Dr. N.Dabholkar in the KJCOEMR campus	20/08/2014
10	Guest Lecture by Prof.R.G.Kolhe And Tree plantation	13/09/2014
11	Blood Donation Camp was organized on the birthday of president Mr. Kalyan Jadhav in the KJEI campus	24/01/2015
12	Street play on on swachh Bharat Abhiyaan for Social Awareness	26/01/2015
13	Women's Day Celebration	09/3/2015
14	Yoga Activity	21/06/2015
15	Book Donation	08/07/2015

16	Blood Donation on Gurupournima	31/07/2015
17	Teacher Day and Tribute to Dr. A.P.J Abdul Kalam	05/09/2015
19	Engineer's Day	15/09/2015
20	Street play	24/09/2015
21	Road Safety at Narayanpur Saswad	06/01/2016
22	Blood Donation	03/02/2016
23	Plastic Disposal	17/02/2016
24	Women's Day Celebration	08/03/2016
25	Yoga Activity	21/06/2016
26	Tree Plantation	12 to 13 /07/2016
27	Blood Donation On Gurupournima	19/07/2016
28	Swach Bharat Abhiyaan	16/08/2016
29	Teachers Day & Organ Donation	06/09/2016
30	Engineers Day	14/09/2016
31	NSS Foundation Day (Traffic Mgmt & Girls Sports)	24/09/2016
32	A Seminar on topic "Awareness of a Women Potential"	21/09/2016
33	Road Safety	6/10/2016
34	Vachan Prerana Diwas	17/10/2016
35	NSS CAMP (Gunand)	22 to 28 /12/2016
36	Eye Donataion Awareness (Street Play & Rally)	03 & 04/01/2017
37	Blood Donation on account of KJ Sir Birthday	24/01/2017
38	Medical Camp on account of KJ Sir Birthday	24/01/2017
39	Women's day	08/03/2017

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.

Following value added courses/enrichment programmes are offered to ensure holistic development of students;

Moral and Ethical values: To develop moral and ethical values different cultural as well technical events are organized in the institute during "KJ YOUTH FEST". Students can show their technical as well as non-technical talents through this event. It consists of many technical events like paper writing, robo race, project exhibition, circuit designing, bridge designing, quizzes, etc. Along with it there is group dance, solo dance, street play, drama, singing, fashion show, fun fair activities. It gives the platform to students to showcase their talents. Different sports are also arranged in "KJ YOUTH FEST" which improve student's team spirit.

The NSS team of the institute arranges camp nearby villages every year to look after their lifestyle and study how these people grow up without facilities, they arrange lectures to aware about education, computers, internet banking, and cleanliness etc. Women development cell

is run at institute level, which invites experts like Dr. Pratima Jagtap from All India Radio Pune, Sindhutai Sapkal guided students on moral and ethical values.

Employable and Life Skills:

To develop employable and life skills, TPO interacts with students regularly, to apprise students regarding enhancement of employability skills, also organizes HR guest lectures every year. Through interactions with industry experts, the actual information is collected about the demands and expectations of the industry. This helps in identifying training needs. Also conduct lectures on employability by faculty member, Students get help from staff members regarding preparation of competitive examinations. At departmental level students are encouraged to participate in various extra and co-curricular activities.

Better career options:

Training programs on technical subjects are conducted at the institute as well as department level, depending upon the career options in respective branch. e.g. One week 'LabVIEW' workshop is conducted by E&TC Department which adds value to their knowledge in Embedded Systems, One week 'PLC-SCADA' workshop arranged in electrical department. For building student confidence and improve the employability skill sets, the institute conducts various tests such as COCUBES, First Naukri and Internal tests, GATE.

Community Orientation:

As a part of community orientation, the Institute NSS team regularly visits surrounding rural areas and villages where people are made aware about various social, moral and ethical issues. The members of NSS conducts IT awareness programs, health care, women education etc. The institute also organizes blood donation camp, street plays.

List of activities done under Training and Placement cell in year 2016-17 are:

1. Placement Drive- Reliance Digital (ON Campus)
2. Placement Drive- (EKI)(Off Campus)
3. Placement Drive-Tech Mahindra(Off Campus)
4. Placement Drive-Tech Mahindra(ON Campus)
5. Placement Drive-Amazon (on Campus)
6. Cocube assessment Pre-placement Session
7. SAVY soft Drive- OFF Campus
8. Aptitude Mock Test- Pre-placement Test
9. Farewell Function to HR head Persistent Technologies- Mr. Kaustubh Bhadbhade
10. Zensar Placement Drive- ON Campus
11. Mini GATE Examination
12. First Naukari Assessment for all KJEI students
13. SANY Industries Placement Drive-OFF Campus
14. Fifteen Days Training to KJEI students from Zensar on –JAVA, .NET
15. Q Spider Placement Drive-ON Campus
16. Deskera Placement Drive-ON Campus

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

The institution has various channels to collect and document responses on curriculum from the stakeholders. The institution collects feedback from the stakeholders in enriching the curriculum in the following manner:

- Mid semester and end semester feedbacks are taken from students.
- Alumni feedback is collected every year during alumni meet.
- Feedback is collected about project groups from project examiners appointed by SPPU.
- Feedback is taken from recruiters, when they come for campus recruitments.
- Parent's feedback is collected during parents' meet.

The inputs are obtained from the stakeholders regularly and further used for enriching the curriculum that helps to improve the overall competency of the students for employability. The feedback responses are presented before HoD for consideration and decisions are taken accordingly. Thus, for instance if the students have expressed displeasure with any of the staff members including faculty (which is very rare), the concerned staff member is given due hearing with the authorities and if found requiring some improvement, is given an opportunity to keep pace with student's expectations

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

Institution monitor and evaluate the quality of its enrichment programs based on the analysis of the feedback, the institution decides to roll out suitable modules of enrichment programmes. The quality of enrichment programmes is evaluated by the following ways:

- The performance of the students in the internal and the University theory/online/practical Oral examination,
- Participation in technical quiz competitions,
- A number of innovative projects carried out,
- Papers presented in seminars and prizes won,
- Understanding shown in lab experimentation and answering viva questions.

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 contribution from the institution in the design and development of curriculum prepared by SPPU is as follows:

- Faculty members of various departments attended workshops, seminars, faculty development program, conferences.
- While framing the curriculum of various subjects by BoS, senior faculty members are deputed to participate.
- Few faculty members are also acting as a subject experts and chairman of the subject.
- Faculty member performs their exam duty assigned by the University.

- Experienced faculty members contribute to the development of the curriculum of the University by arranging workshop, seminar and expert lecture for students.
- Experienced and approved faculty members are given responsibility of paper setting by the University.

The list of faculty for contribution of development of curriculum is shown in **Table 1.1.6**

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

Yes, there is a mechanism to obtain feedback from stakeholders like students, alumni, industry, etc. on curriculum development. At the end of every semester, faculty collects feedback from students. These feedbacks are analyzed in the departmental level and it helps to find out students representing fast learner, average learner and slow learner.

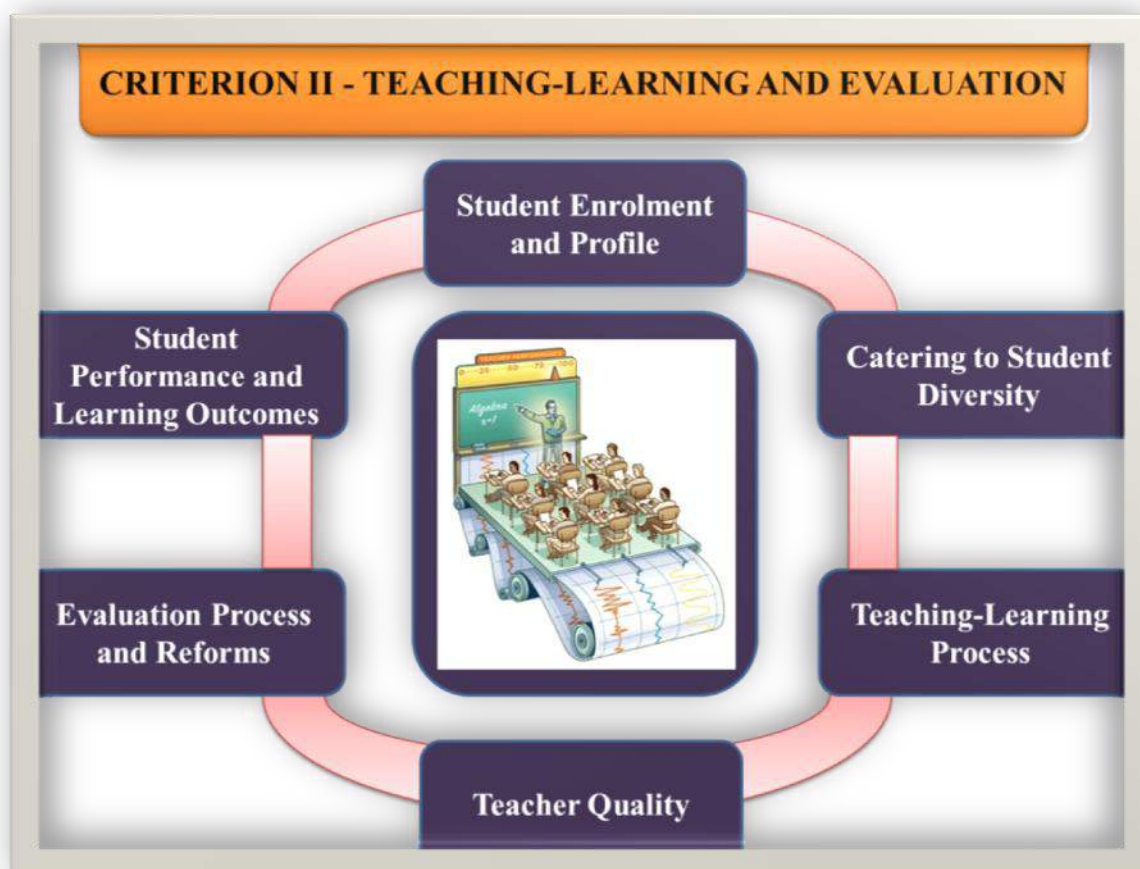
HoDs and subject experts report to the BoS members of SPPU who are involved in curriculum development. Feedbacks are also taken during placement activities from industry, industry experts visiting to institute for guest lectures, seminars. Feedback from parents during parents meet is taken and suggestions are considered. Also other value added programs are arranged by department for improving curriculum enrichment of student like industrial visits, technical fest, competitions etc. Feedback related to workshop, seminar, and conferences is collected for improvements and students are encouraged to participate. The suggestions of parents and stakeholder are considered for the betterment of curriculum enrichment.

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

During last four years, institute has not introduced a new programme/course. To satisfy need of industry and for improvement of student institute has introduced a VAP for all departments. Workshops are arranged for enrichment of curriculum.

In addition, SPPU has made provision and given authority to every department, to add open elective for final year. With prior approval from BoS and academic council of SPPU, any department can add open elective for final year in accordance with University syllabus. Hence, the industry based advanced technology learning can be designed and introduced. At present, institute has not introduced such open elective, but will have a plan to add open elective for final year in the next academic year as per industrial requirement.

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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? The college ensures publicity and transparency in the admission process by following means:

Publicity:

- Admission notification is published by DTE, Maharashtra state in all leading national and regional daily newspapers.
- The advertisements for admission to different courses are published in all leading newspapers from time to time and the same is displayed on the notice board of the institute. The advertisement contains detailed information about courses, eligibility, process of admission and academic as well as support facilities.
- Admission process mentioned on college website <http://www.kjei.edu.in/kjcoemr/>

Transparency:

- Transparency is maintained throughout the admission process. The admission process is strictly controlled by DTE, Maharashtra through Centralized Admission Process (CAP).
- Students interested in taking admission have to fill on line application form through DTE admission portal after the admission notification before the last date.
- Application-Form Receipt Center (ARC) verifies all the necessary documents and gives confirmation of application form to the candidate.
- Provisional merit list displayed on DTE website and after the cognizance of the entire grievances final state level merit list is prepared. The same is kept in the Institute office as public information.
- All admissions are strictly through state level merit in all criteria as per the flow chart of admission shown in **Figure 2.1.1**.
- Students can fill the choice of stream and Institute through online registration. While doing so they can get Institute information through DTE admission information brochure.
- The institute strictly adheres to the rules and regulations regarding admissions prescribed by the state government and SPPU by giving proper affidavit to DTE.
- Institute level seats are filled by giving proper advertisement in newspapers. 20% admissions are carried out at institute level according to the guidelines of DTE and GoM.
- Admission cell is formulated for counseling the students and parents seeking admissions to Engineering and Management.
- Counseling cells are also taking part in education fairs at various cities for institute level admissions.
- Admission to Master of Engineering (ME) is also carried out transparently in similar way.
- There is no provision for direct second year admission in any branch at institute level. The entire direct second year admissions are carried out by DTE, Government of Maharashtra.

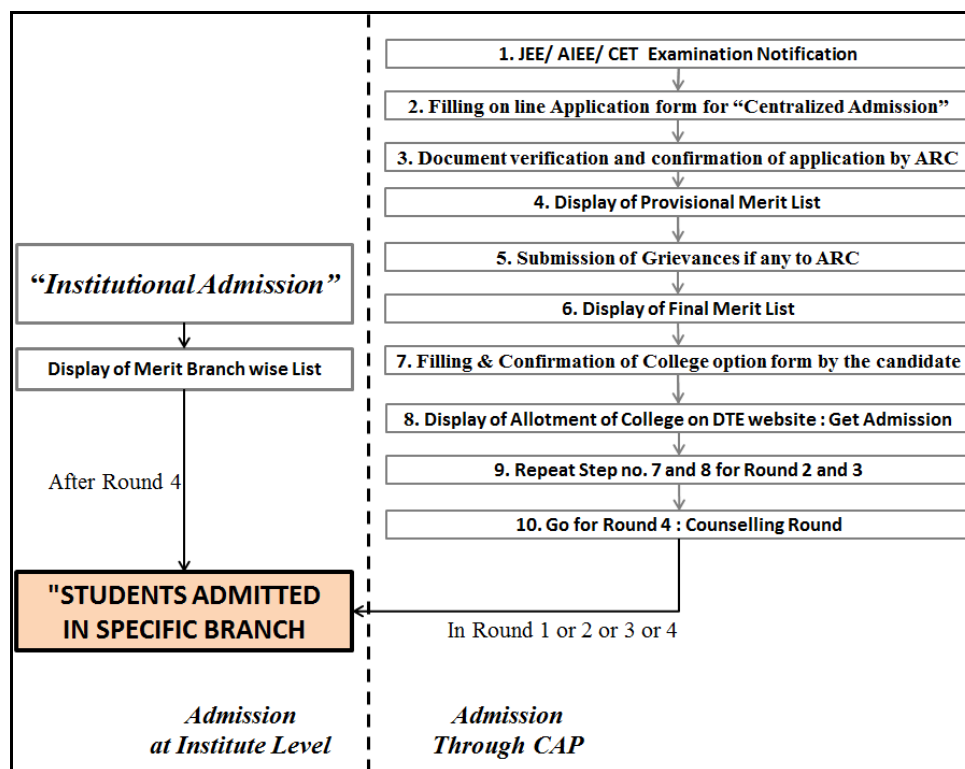


Figure 2.1.1 Admission Process for Centralized and Institute Level Admission

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

The Institute follows the admission process as per the guidelines given by DTE, GoM. CAP of DTE governs the eligibility criteria for selection of students to first year, direct second year and master of engineering. Broadly, the admission criterions are based on:

- Entrance Examination CET/JEE-Mains/AIEEE for FE whereas GATE for ME
- Physics, Chemistry and Mathematics marks of HSC Examination for FE admissions
- Vocational Subjects at HSC Examination for FE admissions
- Graduation marks for ME
- Final year Marks of Diploma for Direct 2nd year of Engineering Admission (DSE)
- Reservation Policy

The minimum eligibility criteria for admission to FE, DSE, ME are decided by DTE, GoM and it changes year to year. The process of admission is as shown in **Figure 2.1.1** for FE admission and it is similar of kind for other admissions.

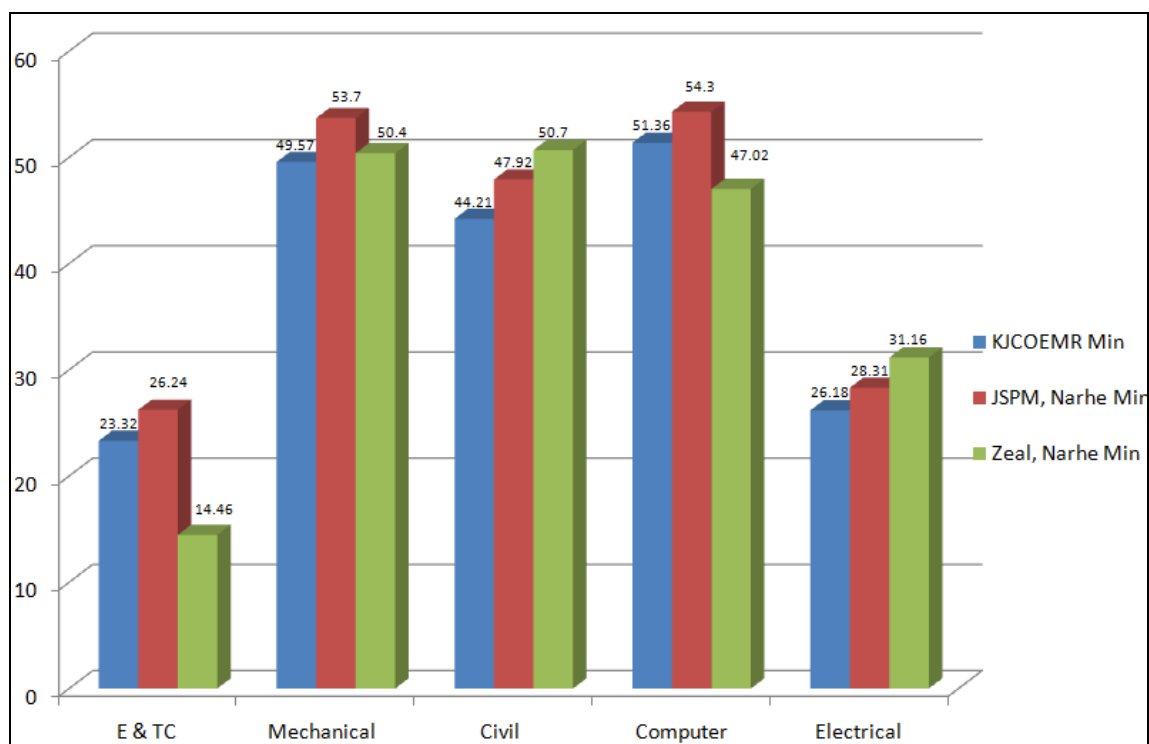
2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

Admission process is as per the rules and regulations of DTE, GoM. Table 2.1.3 is giving the details of minimum and maximum percentile / Common Entrance Test (CET) marks at entry level for the last academic year 2015 - 16 for FE admissions.

Academic Year 2015-16:**Table 2.1.3: FE Admission Minimum and Maximum Percentile 2015-16 with respect to Nearby Institutes under SPPU**

Sr. No.	Department	KJCOEMR		JSPM, Narhe		Zeal, Narhe	
		Min	Max	Min	Max	Min	Max
01	E&TC	23.32	29.56	26.24	34.09	14.46	14.46
02	MECH	49.57	68.32	53.7	64.58	50.40	60.4
03	CIVIL	44.21	55.19	47.92	58.97	50.70	57.11
04	COMP	51.36	61.2	54.30	65.95	47.02	63.17
05	ELECT	26.18	32.42	28.31	34.82	31.16	36.12

The comparison shows that our institute has higher cut off percentile/CET marks for all the courses as compare to other nearby institutes JSPM, Narhe and Zeal College for last academic year as shown in **Figure 2.1.3.(a) & 2.1.3.(b)**

**Figure 2.1.3(a): KJCOEMR, JSPM, Zeal FE Admissions in AY 2015-16**

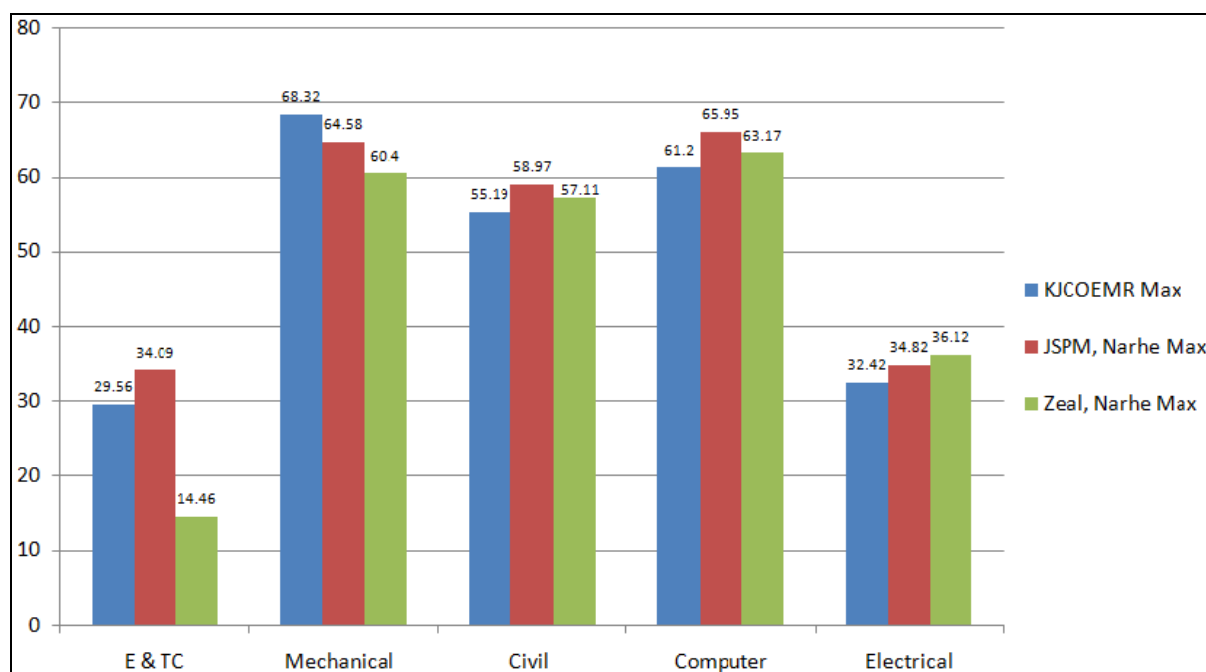


Figure 2.1.3 (b): KJCOEMR, JSPM, Zeal FE Admissions in AY 2015-16

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, the institute has mechanism to review the admission process and student profiles annually. Though, DTE governs the Engineering admission process in the state and the institute follows rules, regulations and guidelines set up by the GoM, we usually compare our FE student’s admissions branch wise in terms of number of admissions and quality of students that are taking admissions. Considering the lesser admissions in the state, KJCOEMR takes keen interest in making name and fame of the institute by means of advertisements and participating in educational exhibitions all over India.

The admission information is also available on institute website <http://www.kjei.edu.in/kjcoemr/>. On-line registrations and counseling during educational exhibitions is the modern time improvements and has become part of admission process. As a result, our admissions are good in terms of quantity and quality since inception of the institute.

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, Differentially abled, Economically weaker sections, Minority community, Any other.

The strategy adopted by the institute during the admission process is to give following information while counseling the students for admissions:

- The Institute follows all the rules and norms laid down by DTE, GoM regarding admission of students in the reservation criteria.

- It offers seats to SC/ST, OBC, women, economically weak students Tuition Fee Waiver Scheme (TFWS) as per the government norms, rules and regulations.
- There is a special quota for the candidates of Jammu and Kashmir as per DTE norms.
- Economically Backward Class (EBC) Scholarship scheme of Government of Maharashtra is given to all the eligible students admitted through CAP.
- The total social reservation is 50 % of total sanction intake that is segregated as; Open – 50 %, SC –13%, ST - 7%, OBC – 19%, VJNT –11% and Women – 33% (in individual categories).
- Institute follows earn and learn scheme of SPPU of Social Welfare Department (SWD) for economically weaker students.
- Scholarship is given for students having good percentage in their HSC and DSE.
- **Figure 2.1.5(a)** shows total number of boys and girl students in the institute in various departments.
- **Figure 2.1.5(b)** shows percentage boys and girl students in each category.

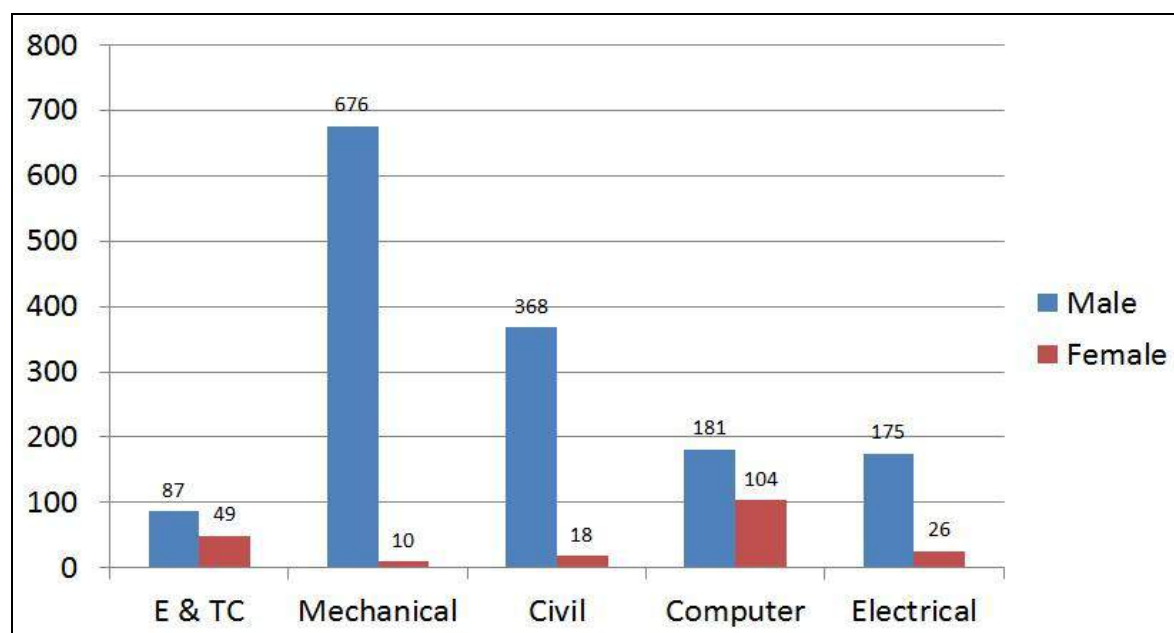


Figure 2.1.5(a) shows total number of boys and girl students in the institute in various departments

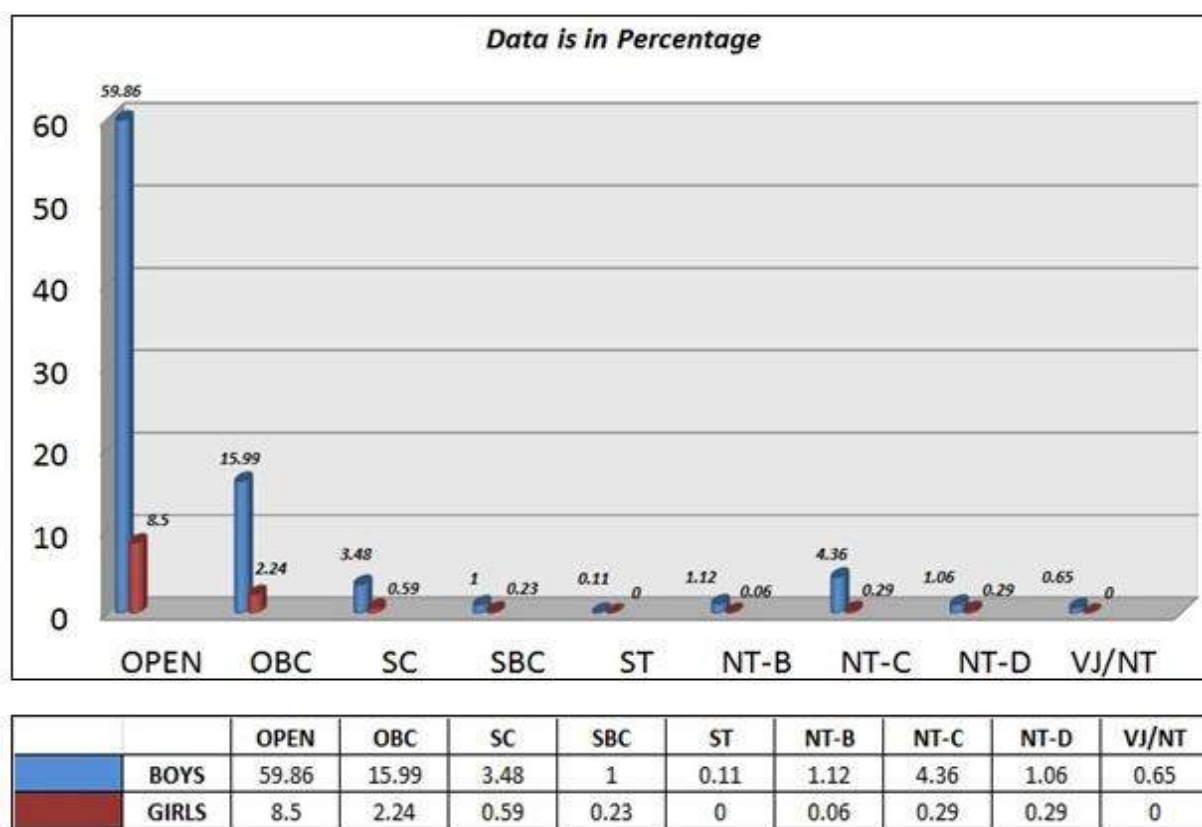


Figure 2.1.5.(b): Current Boys and Girls Percentage in each Category for A.Y 2016-17

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.

Since our institution is affiliated to SPPU and approved by AICTE & DTE, the students do not directly apply to the college but apply for admission to centralized admission process (CAP) conducted by DTE Government of Maharashtra, therefore the mentioned demand ratio cannot be computed.

Table 2.1.6: Shows total number of students admitted through FE, DSE, ME

Department	CT	2013-14			2014-15			2015-16			2016-17			2017-18		
		NO A	NS A	DR	NO A	NS A	DR	NO A	NS A	DR	NO A	NS A	DR	NO A	NS A	DR
E&TC	FE	60	5	8	60	11	18	60	2	3	60	0	0	60	0	0
	DSE	60	59	98	60	27	45	60	15	25	60	16	27	60	6	10
MECH	FE	120	114	95	180	131	73	180	50	28	180	21	12	180	4	2
	DSE	60	60	100	120	120	100	120	120	100	120	299	100	120	30	25
ME DESIGN	FE	-	-	-	24	24	100	24	12	50	24	0	0	24	1	4
CIVIL	FE	120	57	48	120	72	60	120	48	40	120	24	20	120	9	8

ME STRU CT	FE	-	-	-	24	24	100	24	24	100	24	14	58	24	24	100
COMP	FE	120	32	27	120	45	38	120	40	33	120	35	29	120	58	48
ME – CE	FE	24	24	10 0	24	24	100	24	16	67	24	1	4	24	4	17
ME – CN	FE	24	24	10 0	24	24	100	24	9	38	24	1	4	24	3	13
ELEC T	FE	60	8	13	60	18	30	60	7	12	60	4	7	60	0	0
NOA – No of applications [Intake], NSA – No of students admitted and DR - Demand Ratio = NSA*100/NOA																

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

- Global and national employment scenarios are mostly responsible for admissions.
- The students mostly select the institutes based on the surrounding locality and placement trend of particular institute.
- Every year new institutes are establishing as well as there is increase of intake in existing institutes for various programmes in the state of Maharashtra.
- State-of-the-art technology in the area and trends of students opting postgraduate courses in India and abroad matters a lot during PG admissions.

Action initiated for improvement in placement and as a result in admissions:

- Providing effective training and placement activities
- Conducting value added courses in consultation with Industry
- Organizing awareness programmes.
- Counseling before and during admission

2.2 Catering to Student Diversity

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

The Institute caters to the needs of differently able students as per the requirements of the individual student. In addition, the institute makes special arrangements for these students in University examination as per the SPPU guidelines. The institute is fully adhering to government policies regarding the needs of differently able students.

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

Yes. The institution assesses the students' needs in terms of knowledge and skills before the commencement of the programme in following manner.

- The Joint Entrance Exam (JEE Main) is conducted at national level for Maharashtra as well as Out of Maharashtra State (OMS) students, for admission to the First Year of Engineering.
- The qualifying marks and overall ranking in the merit list of the students gives an idea about the caliber of the students for entry-level analysis.
- Institute organizes orientation/ induction programme for newly admitted students i.e. First Year Engineering students and Second Year Engineering students regarding the

programme as well as information about the branch they have choose for course or programme.

- Introductory lectures for all subjects are delivered to discuss and understand special needs of the students.
- Students are given value added inputs from second year in terms of additional training programs like aptitude training, skill development and employment skills in industries.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/ Enrichment Courses, etc.) to enable them to cope with the program of their choice?

Following are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/ Enrichment Courses, etc.) to enable them to cope with the program of their choice:

- Organizing and conducting technical programmes like GRAVITY Poster/Project Expo and NCSPCMSM conference to enhance their technical skills.
- Industries like PERSISTENCE and ZENSAR provide training to students regarding their programme in the institute.
- Organizing expert lectures of industry experts.
- Organizing co-curricular activities like competitions, quizzes, workshops for supplementing the knowledge of students.
- Encouraging students to undertake value added courses, internship and projects in industries.

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

The college sensitizes its staff and students on issues such as gender, inclusion, environment etc. as per following way:

- There is no discrimination based on gender regarding seating arrangement of students in class rooms / laboratories and while delivering the curriculum or conduction of extracurricular activities.
- Class Representatives or Office Bearers of Student Council are appointed without gender bias.
- Ladies Grievance committee is in place to redress the issues of female staff and students.
- Institute arranges special social activities to maintain good social environment under NSS such as Blood Donation camps, rural development, Swatchh Bharat Abhiyan etc
- Institute has arranged some awareness programmes like Traffic Control Week in coordination with Traffic Police under NSS activity. Students as well as faculties actively participated in such event to spread the good social message.
- Institute has Woman Development Cell to conduct several activities for girl students as well as ladies faculty. Activities also include awareness programs' like 'Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013".

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

The institution identifies and responds to special educational/learning needs of advanced learners in the following ways:

- From the performance in qualifying examinations (JEE, MHCET etc) for admissions to the program.
- From the sincerity in attending, consistency in performing practical sessions which is evaluated on a continuous basis, percentage attendance and timely submission of their work.
- From the performance in internal and University exams conducted periodically.
- From the enthusiasm shown in their participation in co-curricular events.
- The institute encourages advanced learners and takes extra efforts for their further development and growth.
- These students are exposed to various intercollegiate technical competitions like AVISHKAR and SAE BAJA to sharpen their skills and motivate them to win awards.
- Advanced learners are motivated to achieve higher performances in their summative assessments by giving awards to those who top in University exams. Students from institute like Miss. Priya Ahirwar have secured 1st rank in E&TC department and Mr. Dnyaneshwar Kale has secured 9th rank in civil department SPPU exam 2015-2016.
- Proficiency prizes are awarded to class-toppers. University rank holders are honored at the annual gathering ceremony.
- Students are also motivated to pursue higher studies and research.

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

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

- Low performers in the qualifying examination immediately on obtaining admission in first year
- List of defaulter students having shortage of attendance in theory and practical
- List of pass-class students obtained from analysis of results of internal and University exams
- Through continuous evaluation and interactions of course faculty with the students during class, laboratory or tutorial sessions
- Through interactions of class teacher during periodic meetings with students held every month
- Conducting additional lectures for difficult courses like mathematics, engineering graphics and fundamentals of programming at the first year level for academically weak students to bring them at par with the others before commencement of semester I of first year.

- Conducting remedial lectures or practical sessions for slow learners for improving their academic performance
- Course faculty mentor students individually and suggest remedial measures
- Communicating their academic performance to parents in parents-meet and seeking their support in resolving the difficulties of the students
- Making students aware of scholarships, free-ships to apply for obtaining financial support for their education
- Providing facility of payment of fees in installments for economically weak students as well as institute has special scheme of Earn and Learn Principle for economically weak students.

2.3 Teaching Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, Evaluation process, Internal Exams, etc.)

Plan of the College consist of various activities of teaching, learning and evaluation schedules as shown in *Figure 2.3.1*

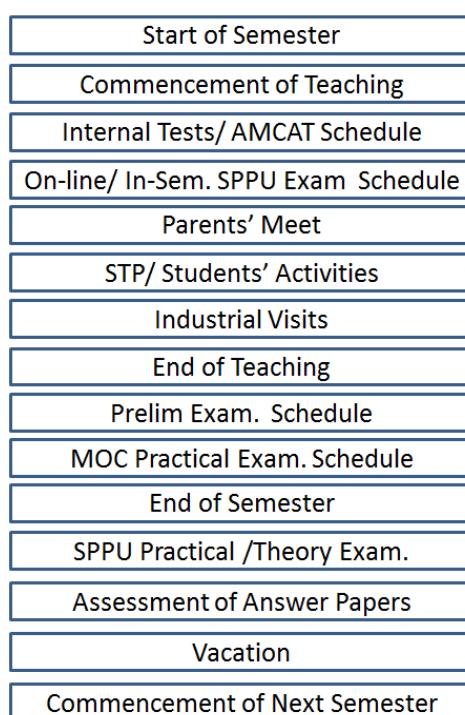


Figure 2.3.1: Academic Plan of the College

Teaching-learning process:

Teaching-learning process is central to the academics and student commitments. This means that the old model of teaching being active, learning being passive, and faculty transferring knowledge to students, gives way to an active learning environment.

Academic Calendar:

The college plans its own academic calendar for both UG and PG courses on the lines of academic calendar provided by the university. (Commencement of the semester, End of the

semester, Schedule of In-Semester, End Semester, Online Examinations, list of holidays, Vacation Schedule etc.)

The planning and organization of teaching, learning and evaluation of all the courses of each discipline is done by a committee. (Principal, Academics Dean, Head of every department of the college, members of committee and members of the examination committee)

Time-table: -

The time-table coordinator of each department prepares comprehensive timetable for all the classes and allots class rooms and Labs as per the requirements. Also allots class teachers and GFMs and prepares Master timetable of the departments.

Teaching Plan:

Before the commencement of teaching-learning, a meeting of all the faculty members of an individual department is addressed by the HoD to discuss the courses/syllabus, academic calendar and planning for the semester. After the meeting, all the faculty member prepares comprehensive teaching plan for their respective subjects as shown in **Table 2.3.1(a)**.

Table 2.3.1(a): Teaching Plan Format

K J College of Engineering & Management Research, Pune					Semester Planning for Theory		Page No.	
Department of Computer Engineering							Class	
Academic Year :							Semester	
Subject :				Faculty :Prof		Month :		
Sr. No	Unit	Topics			Predicted Date	Actual Completion	Book Referred	Reason for Variance

Monitoring and necessary mid-term corrections are made primarily by the Heads of the departments in consultation with respective teachers in the departmental meetings. The teaching plan of each individual teacher is approved by the Head of the department.

The students are provided with the syllabus, Teaching plan, unit wise question bank, the list of assignments and time table on the first day of the class at the commencement of the semester. This helps the students to plan their learning and preparation for the exam.

Evaluation process:

Evaluation policy for each course is fixed well in advance and is communicated to students at the beginning of an academic year. Examination coordinator prepares the plan and time frame for conducting the internal and semester exams. Which includes exam schedule, evaluation schedule, result analysis. This enables the examiners and examinees to know the time frame for completion of the process of evaluation and results. Regular notification regarding examination is also a feature of the teaching-learning and evaluation process of the institution.

- Student's performances are continuously evaluated through tutorials, practical assignments, mid-semester tests and necessary remedial actions are undertaken.
- Mid-semester tests, online results are analyzed and academically weaker students are counseled and provided the necessary help.
- List of students with poor attendance is prepared at the end of each month and the GFM mails letters to their parents highlighting the students' performance.

- Extra lectures are allocated in the timetable to cover the curriculum in more elaborated way as per the subject requirement.
- The term work marks are given to the students based on continuous evaluation process with the distribution of marks as shown in **Table 2.3.1 (b)**.

Table 2.3.1 (b) Student Evaluation Structure

Roll No	Name of student	Continuous Assessment (12 Marks)				Total (12 Marks) (CA)	Average Attendance . (TH) %	Attendance. (8 Marks)
		Subject Knowledge (3 M)	File Checking (2 M)	Practical Performance (5 M)	Behavior (2 M)			

Roll No	Name of student	% Test Marks		%Test marks (Best of UT-1 /Prelim)	Test Result (5Marks)	Total (25Marks)	Total (50 Marks)	HOD Remark	Grace marks	TW
		UT-1	Prelim							

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

IQAC has been proposed from next academic year. Currently the T-L-P is monitored and governed by the Academic Monitoring Committee (AMC) that will become integral part of the proposed IQAC. The primary aim of AMC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution. The structure of AMC is shown in **Figure 2.3.2(a)**:

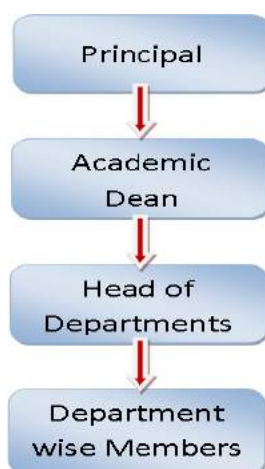


Figure 2.3.2 (a): AMC Structure

Function:

- Development of quality parameters and benchmarks for the academic and administrative activities of the institution
- Acquire feedback from stakeholders with respect to quality parameters
- Suggest remedial actions/ plans to improve academic and administrative activities of the institution
- Dissemination of information of expected quality in education systems by AICTE/ UGC/ DTE/KJCOEMR
- Document verification of quality parameters / activities leading to quality improvement
- Acting as a nodal agency of the institution for imparting quality-related activities

Mechanism: AMC aims to maximize the quality outcomes of the institute in terms of:

- Academic performance
- Placement scenario
- Research contribution by faculty and students
- Overall satisfaction of stakeholders: Society, Industry, Alumni, Parents, etc.

While doing so the AMC will work in close loop system with staff, students and management for developing a unique work culture in the institute. **Figure 2.3.2 (b)** gives overall idea of this closed loop system.

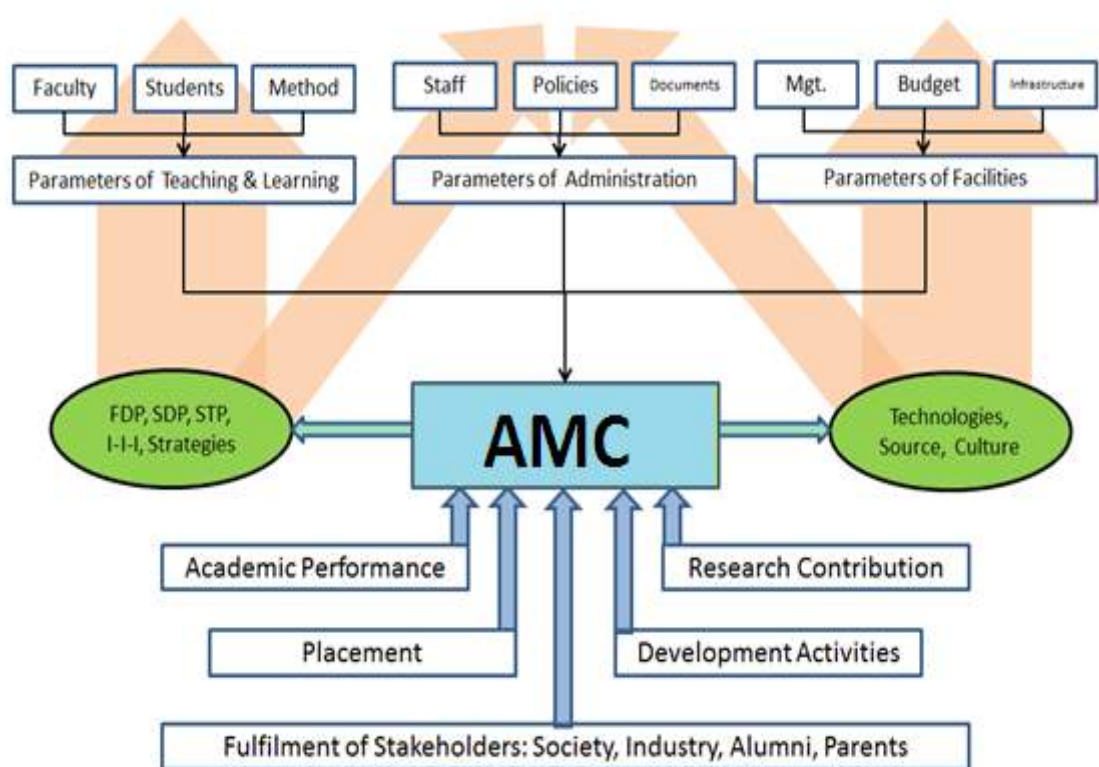


Figure 2.3.2 (b): AMC System

- In our institute, in each department, the Department Academic Committee is formed which contributes:
 - ✓ To define vision and mission of their respective departments
 - ✓ AMC monitors and assesses the entire academic program of the institute.

- ✓ The portion covered, lesson plan and the class notes prepared by the faculties are regularly cross checked and monitored through academic committee.
- ✓ To review and monitor the performance of the students and institute we focus on the academic results, placements, students technical activities etc.
- ✓ To promote and motivate faculties and students for R & D and projects.
- ✓ Ensuring the adequacy, maintenance and functioning of the support structure and services in institution.
- ✓ Ensuring timely, efficient and progressive performance of academic activities according to the academic calendar order to ensure the attainment of various course outcomes and programme outcomes.
- ✓ Institutes have feedback system where student's gives feedback about faculties so that the teaching style of the teacher can be judged and analyzed. Giving advice for improvement if necessary.
- ✓ If any teacher does not rectify his or her style and his feedback is not improved then he is issued warning letter to improve his mode of teaching.
- ✓ Arrange visiting faculty as guest lecturers in thrust areas to conduct seminar, interact with academicians and people from industry to get first-hand information on the scientific trend and market need to boost the teaching quality.
- ✓ Conduct periodical discussion with all HODs for further improvement.
- ✓ To encourage and motivate students for academics, scholarship and academic prizes are given to students those are rank in university exam and class toppers.

• **Benefits:**

The analysis and suggestions by AMC will benefit the institutional progress in quality education and research. It will also make sure about keeping the transparency in faculty, staff and management with respect to objectives towards attainment of mission and vision of the institute. AMC create a mechanism to integrate various academic activities, enhance supportive administrative tasks and effectively communicate to achieve quick actions and get impact on quality objectives of the institute. The members of AMS are shown in **Table 2.3.2**.

Table 2.3.2(a) : Members of Academic Monitoring Committee (AMC)

Sr.	Name of Staff Member	Designation
1	Dr. S. S. Khot	Chairman
2	Prof. Lalit Kumar	Secretary
3	Dr. H R Kulkarni	Member
4	Prof. S. K. Patil	Member
5	Prof. P. U. Chavan	Member
6	Prof. P.E. Ingale	Member
7	Prof. D. C. Mehetre	Member
8	Prof. C. M. Gajare	Member

9	Prof. P. P. Chavan	Member
10	Prof. S. M. Patil	Member
11	Prof. A. B. Pujari	Member
12	Prof. S. B. Yerram	Member
13	Prof. A. L. Nehete	Member
14	Prof. P. C. Jadhav	Member

Table 2.3.2(b) : Internal Quality Assurance Cell (IQAC)

Internal Quality Assurance Cell (IQAC)			
S.N.	Name of Committee Members	Designation	Role
01	Dr. Suhas S. Khot	Principal	Chairperson
02	Prof. Pramod U. Chavan	HOD (E & TC)	Coordinator
03	Mr. Sandeep Panchbhai	Office Superintendent	Member
04	Prof. Santosh K. Patil	HOD (CIVIL)	Member
05	Prof. Milindkumar S. Mali	HOD (MECH)	Member
06	Prof. Deepak C. Mehetre	HOD (COMP)	Member
07	Prof. Lalit Kumar	HOD (ELECT)	Member
08	Dr. Prajakta Deshmukh	Coordinator (Engg. Sci.)	Member
09	Prof. Mininath K. Nighot	Member	Member
10	Prof. Pramod Dastoorkar	TPO	Member
11	Mr. Vinod Jadhav	Management	Member
12	Mr. Rushabh Shaha	Alumina	Member
13	Mr. Sandip Jain	Industry	Member

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

Students are the most important stakeholders of the institute. All efforts are being taken to groom them as social engineers. **Figure 2.3.3** shows various student-centric T-L-P adopted in all the departments.

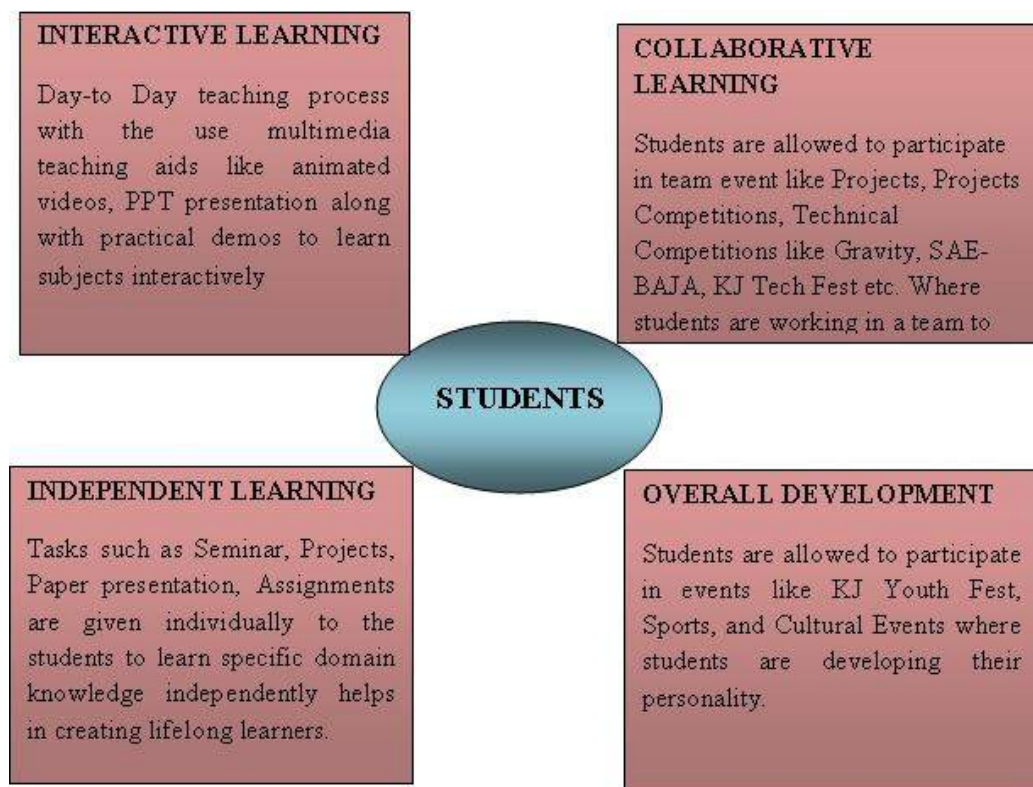


Figure 2.3.3: Teaching Learning Methodologies

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

- **Interactive Learning- Providing traditional and advanced teaching aids**

Classroom teaching is the traditional method and mode of teaching-learning process. But advances in technologies encourage the use of modern tools in class room teaching.

- ✓ All class rooms and seminars halls are equipped with green and white boards, internet and LCD projectors.
- ✓ Faculty rooms are equipped with modern furniture, computer and internet facility.
- ✓ Faculty rooms are utilized for counseling and discussion with individual student.
- ✓ Use of NPTEL videos for better understanding of concepts of courses is the one of the interactive method.
- ✓ For group counseling, seminar, workshops seminar halls and tutorial rooms are available.

- **Collaborative Learning- Assigning project work and taking follow up**

Students are allowed to participate in team events where students are working in a team to understand concepts. As a part of curriculum, final year students in a group of three to five carry out one full year project to provide the solution to a given engineering problem by applying the knowledge gained in three years of graduation studies. A preliminary survey of literature is carried out to define the problem. The students are expected to prepare a synopsis indicating the feasibility of the project with available resources. The feasibility of the project is checked by the panel of three faculty members. The progress of the project is monitored throughout the year by the same panel in the format shown in **Table 2.3.3**.

Table 2.3.3: Student Project Work Flow

Phase	Duration	Sem.	Nature of Work	Assessment
Phase I	July-August	I	Literature survey, problem definition, feasibility of problem solving	Synopsis submission/ presentation
Phase II	September-October	I	Formulating steps to solve Identified problems. Example - Modelling/design of the component /assembly etc.	Presentation
Phase III	December-February	II	Execution of various steps to reach for solution. E.g. Simulation, implementation, manufacturing and assembly Project Analysis	Project diary and analysis of the project by a group of three faculties
Phase IV	March	II	Project completion, testing, report writing	Full project report, project demonstration
Phase V	March	II	Project completion, testing, report writing	Full project report, project demonstration
Final	June	II	University viva (external)	Project report And demonstration

- Following major points highlights student-centric approach of T-L-P:
 - ✓ Multimedia teaching aids like animated videos, demo videos, PPTs are incorporated in the day-to-day teaching process to enhance the students understanding of the subject.
 - ✓ Practical assignments are given during practical sessions to complete the task with the help of faculty interactions.
 - ✓ Guest lectures by experts from the industry and add-on courses are organized by the respective departments, to cover content beyond syllabus.
 - ✓ Students are allowed to take part in team events such as Gravity, KJ Tech Fest, SAE BAJA, AVISHKAR for collaborative learning.
 - ✓ Inter-collegiate events are organized to bring out the potential of the students.
- **Independent Learning - Providing computers with relative accessories and aggregates for web based learning**

Independent Learning is promoted in the institute by generating self-learning facilities under various modes.

- ✓ Students are encouraged for self-learning by personal counseling and organizing various contests and technical events like
 - ✓ Industrial visit & Site Visit are arranged for students to give real time experience of industries as part of self learning.
 - ✓ Each department is provided with computers, Printer, Projector, internet and Wi-Fi facilities.
 - ✓ Web-based learning: The institute has created central internet facility with common 50 Mbps leased line and a centralized computing facility with 72 computers to promote and motivate students for self-learning.
 - ✓ Individual Learning with multi-media facilities available in college.
 - ✓ Availability of course material on intra-net
 - ✓ Digital library facility
 - ✓ Language laboratory facility
 - ✓ Availability of video lectures for easy learning.
 - ✓ Institute has high speed Wi-Fi facility.
- Individual Learning facilities and availability of materials for learning beyond syllabus
 - ✓ For laboratory courses, the laboratory manuals are issued.
 - ✓ Digital library facility is provided with NPTEL video lectures.
 - ✓ Internet facility enables students to access the internet even beyond college hours.
 - ✓ Central internet facility is kept open for 10 hrs a day.
 - ✓ Students are motivated to write and present research papers.
 - ✓ Students are encouraged to write assignment/tutorials.
 - ✓ Laboratories are kept open to students to experiment on their ideas.
 - ✓ Language laboratory facilities are provided beyond office hours which enable students to prepare for examinations like TOEFL, GRE etc.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

Various activities and forums held by institution for nurturing critical thinking, creativity, and scientific temper among the students to transform them into life-long learners and innovators are as follows:

- Students are allowed to take part in team events such as Gravity, KJ Tech Fest, SAE BAJA, and AVISHKAR for collaborative learning.
- The KJCOEMR organizes intra and inter-collegiate technical competition –KJ Youth Fest which gives platform to students to show their cultural, technical and sport talent.
- Respective departments under various students associations like Mechanical Engineering Students Association (MESA), Association of Computer Engineering Students (ACES), Electronics and Telecommunication Students Association (ETSA), Electrical Engineering Students Association (EESA) & Civil Engineering Students Association (CESA) Organizes Various Events.

- Creative endeavors like articles, stories, Sketches & poems etc. of students also find a place in the wall magazine of various departments of the college. These creative efforts provide young, budding writers a platform to express their creative talent.
- Students who are interested in Research and Development work are continuously motivated and encouraged to present their Project/Research work in different National/International Seminar/Conference/Workshop and Publish their work in National/International Journal and Seminar/Conference Proceedings.
- Faculty members are engaged with their research work in association with potential students and they always try to share their innovative concepts with the students.
- KJCOEMR Organizing students' seminars/ Conferences / Workshops / Symposium etc.
- Regular study tours to different industries, scientific laboratory & Institute, site visit are organized.

Above all platforms provided by KJCOEMR helpful for Students to educational and life-long learning opportunities by inculcating healthy habits like discipline, leadership, entrepreneurship, etc. thereby contributing to the social, cultural, and economic development of our region.

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

The institute has technologies and facilities available for the effective teaching. They are as follows:

- **Virtual laboratory:** The KJCOEMR has MoU with the various outside Organization like COEP, British Library etc. The lab intended to provide support for innovative R&D upheld by the industry standards. Endurance concentrates all available resources for filling up the gap between the industry and the academics by supporting the students to work on these industry standards platforms. The research culture is being cultivated among the students and the faculties. The virtual lab also targets the best educational practices for the students as well as faculty with free of cost.
- **E-learning Resources:** The institute has developed E-Learning Presentations for all FE subjects. Students as well as newly joined faculty members are taking the advantages of these e-learning resources during their T-L-P.
- **NPTEL:** The NPTEL program implemented for all students and faculty in the institute through our computer network and internet facility to enhance the quality of education through video and web courses. All the courses designed and developed by experienced professors of seven IITs, IISc Bangalore, and other premier institutions as a collaborative project. At IIT Madras, the project is evolving and it is our intent to provide learning materials, digitally taped classroom lectures, supplementary materials, and links to state-of-the-art research materials in every subject possible.
✓ KJCOEMR has separate NPTEL Local Chapter.
- **E-journals:** ScienceDirect (website operated by the Anglo-Dutch publisher Elsevier) is available. With the help of this platform, one can access nearly academic journals and over e-books. The journals grouped into four main sections: Physical Sciences and Engineering, Life Sciences, Health Sciences, and Social Sciences and Humanities. For

most articles, abstracts are freely available; access to the full text (in PDF and, for newer publications inHTML) is also available through a subscription. IEEE e-journal subscription is available at central library from where any student or faculty can demand PDF of specific IEEE published paper.

✓ Science Direct: 275 e-journals (Current & back dated issues) are available online.

- **Wi-Fi & Internet facility:** The entire campus is Wi-Fi enabled with world-renowned CISCO router access points and wireless controller. There are more than 7 access points situated at different locations within the campus through which students can access the internet. Hostel, canteen, and areas around the institute have been Wi-Fi enabled 24 x 7 for all the students and faculty.
The institute has central internet facility with common 50 Mbps leased line enabled 24 x 7 for all the students and faculty.
- **Advanced Software:** Every department is equipped with necessary advanced software to cope up with new technologies. This software is available to almost every department with the help of LAN and advanced servers. The details of advance software at the institute are shown in Table 2.3.5.

Table 2.3.5: Advanced Software in KJCOEMR

SN	Name of Software	Qty
1	Communication Skill Software	25
2	Antenna Software CAD-FECO	5 User
3	Microwind 3.5 Nade lock Network License	10 User
4	Simullation Software with 80C52 Proteus 10 User	Qty 1 10 User
5	MATLAB	25 User
6	Structural STADD Pro Bundle	5
7	Ansys Academic Teaching Introductory Version 14.0	1
8	Catia V5 R21 (Discover Education Bundle)	1 Bundle, 30 User
9	Mastercam X6 30	30 User
10	CAMLAB Software, Module of simulation software (Installment Pending)	20 Users
11	Mastercam X9 (30 Seats) (30Mill,30Turn,30TurnMill)	1
12	Upgradation ANSYS Academic Teaching Mechanical+CFD (ANSYS 16)	1
13	PTC Creo 3.0	1
14	Wonderware Intouch 64Tags SCADA software	1
15	Rs-logix500 PLC Programming Software	1

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

Students and faculties exposed to advanced level of knowledge and skills by various means such as workshops and seminars on advanced topics, alumni interaction, industry interactions, technical paper and poster presentations at conferences, research interactions and project design etc. The details of these various exposures for faculty and students are as shown in **Figure 2.3.6**.

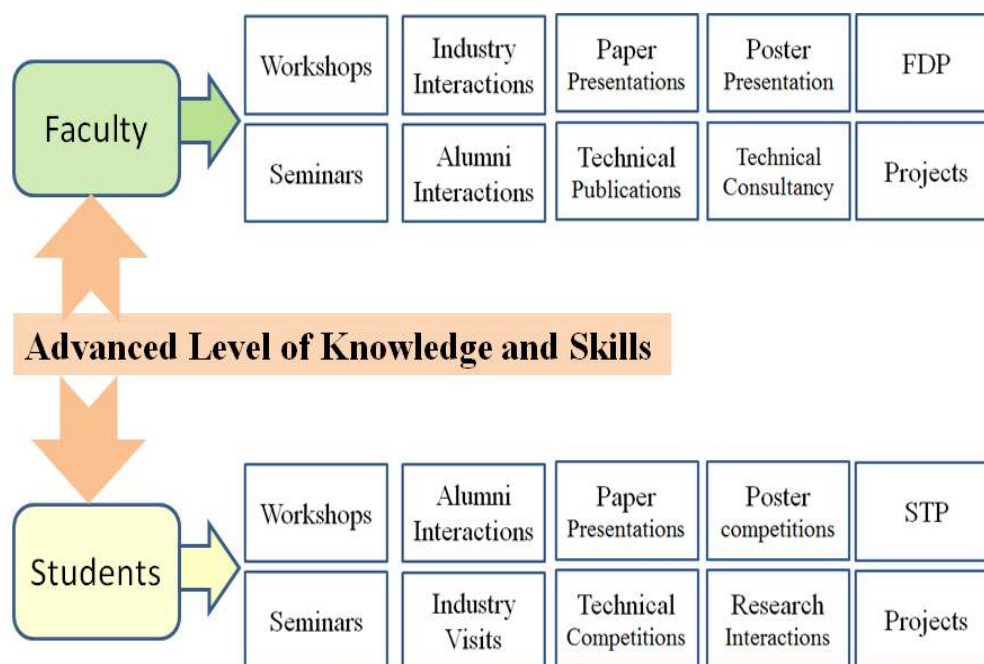


Figure 2.3.6: Advanced Level of Knowledge and Skills by Faculty and Students

Students:

The institute organizes various technical competitions such as project competitions, paper and poster presentation competitions, Short Term Courses- Boot Camp (Android, Java, Tech-Fest, Catia, Auto- Cad etc)

- Hands on advanced practical assignments and new concepts (PLC, Network etc.)
- Lab innovation and setup provide way to learn and implement new concepts for better understanding.
- Industrial Visits.
- Under the department of training and placement institutes set platform for Skill Development to students, companies like Zensar were provides training to students with industrial experts for their betterment. Also Persistent company gives sponsored projects to final year students.
- The institute promotes students to participate in National/International competitions, workshops...etc.
- Eminent speakers invited from the industry to deliver lectures to expose the students to the current developments in the corporate world.
- The faculty encourages students to undertake projects on advanced technologies, industry sponsored projects and R&D projects as shown in **Table 2.3.6(a)**.

Table 2.3.6(a): Sponsored & In-house Projects

Department	Number of Projects done by Students									
	2016 – 17		2015 – 16		2014 – 15		2013 -14		2012 -13	
	S. P.	I. H	S. P.	I. H	S. P.	I. H	S. P.	I. H	S. P.	I. H
E&TC	02	29	0	43	4	14	4	15	5	8
MECH	07	46	16	44	5	24	16	16	7	12
CIVIL	00	27	2	20	1	10	1	10	1	10
COMP	02	33	2	23	3	12	6	11	-	16
ELECTRIC AL	03	18	2	19	1	11	4	13	-	-
S. P. = Sponsored Projects, I. H. = In-house Projects										

Faculty:

- The institute promotes the faculty to participate in different technical conferences/ workshops at State, National, and International levels.
- The institute provides faculty the latest available technical information through memberships of reputed journals like CSI, IETE...etc
- The institute organizes different FDPs in collaboration with well-known organizations, Industry and Faculty participates in different FDP and Workshops organized by other Institutes and Industries, shown in **Table 2.3.6(b)**.

Table 2.3.6 (b): Faculties FDP & WORKSHOPS

Department	Number of FDP & WORKSHOPS attended by faculty									
	2016 - 2017		2015 - 2016		2014 – 2015		2013 -2014		2012 - 2013	
	FDP	WS	FDP	WS	FDP	WS	FDP	WS	FDP	WS
E&TC	16	1	7	5	5	7	6	3	0	8
MECH	21	14	0	11	0	1	2	1	1	4
CIVIL	15	2	0	4	0	1	0	1	0	2
COMP	30	3	2	2	6	7	2	9	2	7
ELECT	11	2	3	0	1	0	0	3	0	3
F.E.	8	7	0	1	0	0	0	3	0	3
FDP. = Faculty Development Program, W.S. = Workshop										

Non-Technical:- (advanced level of knowledge and skills)

- An institute provides platform for Women Empowerment under this Miss. Janavi Katkar student of computer department went to London for understand social issues and living culture of people.

- To understand and find out the problems KJCOEMR have separate Women Development Cell which helps a lot to women's.
- Collage organizes the Social Camp under National Service Scheme (NSS) activities.
- To show and build the cultural skills of students institute have separate Cultural Centre
- To avoid the financial obstacles of economical poor students during their education college gives scholarships with help of various organizations like Persistent and Leena Punawala foundation.
- Also for economical poor students college have separate Student Welfare Department (SWD) under the guidance of Savitribai Phule University Pune. Under SWD KJCOEMR have implemented Earn and Learn Scheme to needy students.

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

All the students get academic and personal guidance from the concerned Guardian Faculty Member GFM, Class teachers, Subject Teacher and HOD. GFM assigned to a batch of 15-20 students from the department.

The responsibilities of GFM are:

- Maintain records of all students in standard format
- Conduct at least one meeting every week
- Update attendance of students under his/her supervision
- Monitor academic performance of the students
- Bring to the notice of respective Class Teacher & HOD about the excessive absentee, if any.
- Convey the performance and attendance to parents every month
- Improve the performance of slow learners by counseling the students and parents.
- Maintain a record of efforts taken for improvement of students
- Call parents if the attendance of the student is poor
- Try to solve any problem of students apart from academics
- Recommend leave of the student with consultation of the student's.
- Submit all the records at the end of semester
- Remedial and revision classes conducted for academically weak students.
- The institute has developed STP for imparting soft skills and placement skills to the students.
- Normally home sick students are in first year who use to express their fillings to GFM. Such students are handled properly proper counseling.
- We advise to take professional counseling only if the things go beyond our control.
- The institute conducts medical check-up of students to ensure their medical fitness.
- GFM, HOD, and Principal are taking care of students who are seeking psychological support on case-to-case basis. In extreme cases, the parents advised to take help of specialized doctors.

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 Institute always gives full support to the faculty in adopting various innovative teaching practices. Faculties have full freedom about the methods of curriculum delivery. **Figure 2.3.8** gives summary of efforts and facilities provided by the institute for innovative teaching approaches/methods adopted by the faculty.

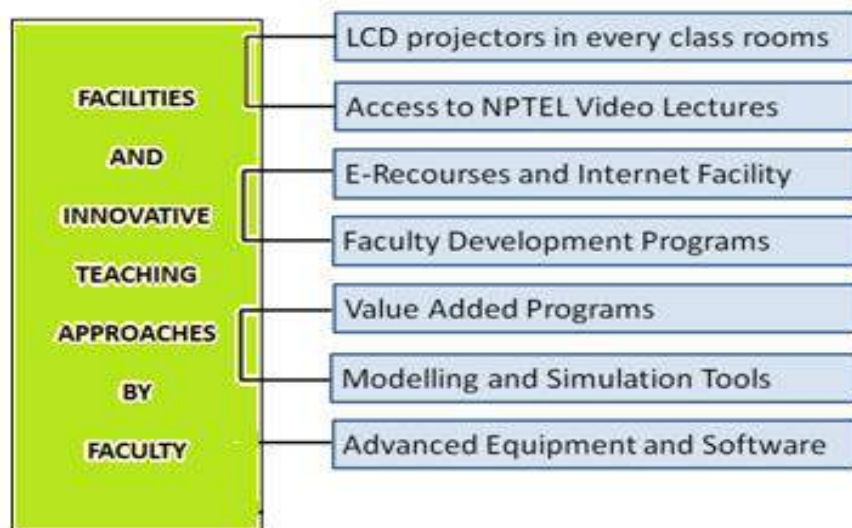


Figure 2.3.8: Efforts and facilities for Innovative Teaching Approaches/Methods

The institute has provided all necessary modeling and simulation tools to the various laboratories. The details of these tools and the number of students benefited from this, are as shown in **Table 2.3.8**.

Table 2.3.8: Use of Modeling and Simulation Tools

SN	Modeling / Simulation	Students Benefited
1	Communication Skill Software	71
2	Antenna Software CAD-FECO	25
3	Microwind 3.5 Nade lock Network License	87
4	Simulation Software with 80C52 Proteus 10 User	20
5	MATLAB	132
6	Structural STADD Pro Bundle	150
7	ANSYS 16	201
8	Catia V5 R21	324
9	Mastercam X9	201
10	PTC Creo 3.0	324
11	Wonderware Intouch 64Tags SCADA software	72
12	Rs-logix500 PLC Programming Software	72

The Institute always gives full support to the faculty in adopting various innovative teaching practices. Faculties have full freedom about the methods of curriculum delivery. The institute has provided all necessary tools, software's to the various laboratories.

The following practices followed for making teaching more innovative and interesting:

- The institute encourages the faculty to use proactive teaching methodologies such as role-play; brainstorming sessions, group discussion, and NPTEL lecture videos for effective knowledge delivery. KJCOEMR has Local NPTEL Chapter.
- Prepare question banks that help students to prepare for their examinations.
- The institute has classrooms with facility of LCD projectors and fully equipped laboratories for effective knowledge delivery to students.
- The Wi-Fi system in the campus enables faculties to access technical resources as and when required.
- Faculty members are deputed for participating in the FDP, workshops, and industrial trainings to update their skills on recent technologies.
- Institutes always have highest priority to identify industry-curriculum gap and bridge it with industry interactions.
- Use of PPTs/videos/animations tools for better understanding of complex concepts subjects
- Use of these innovative methods gives better impact on Students which motivates students to Participation in technical events, competitions and helps to implement hard Concept/Hands on. Also help full to organized Short Term Workshop for students and improve the Subject Results.
- Also students are motivated with any new domain or concept and they selected project related to Concept and this may be help full for their placement.

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

Faculties and students use the library for regular studies, projects and research by referring text books, reference books prescribed in curriculum and other than curriculum. Faculties and students are also uses the e-learning resources, digital library...etc. Library resources are augmented to enhance teaching-learning process through. If student and teachers wish to make photocopy of question papers, articles or any other study material, the library always provided service to them.

- **Newspaper section**
Besides syllabus, newspapers provide information about current happenings all over the world. This makes readers to think about social, economic and environmental issue.
- **Magazine section**
Magazines from different areas help to update information in different ways.
- **Reading room**
 - ✓ Reading rooms are provided with proper seating arrangement, fans, tubes and ventilation, water facilities.
 - ✓ Reading rooms are open beyond college hours.
 - ✓ The library operates beyond college hours.
 - ✓ Every year books, magazines, journals are added as per the needs of staff & Students.

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

Yes, there are few challenges in completing the curriculum within the planned timeframe and calendar. These are elaborated as follows:

Challenges:

- Although lesson plans are prepared by faculty as per teaching scheme mentioned in SPPU syllabus, some subjects require more time depending upon the difficulty level of the subject.
- The institute has limited scope in admission process for first year and second year direct admissions. Therefore, it is difficult to synchronize admission schedule with academic calendar of FE and SE.
- University provides 14 weeks of semester in which it is really challenging to fit extra-curricular activities within available time.
- Teaching methodology and pace of delivery has to change adaptively depending upon the level and pace of understanding of students.
- To correlate theory and hands-on, few practical sessions needs some theory to be covered in the practical sessions.
- To meet the industrial needs and to give awareness of advanced technologies adopted in the corporate world is also a great challenge in every department.

To overcome the Challenges:

- Some of the holidays are converted into working days to make up the academics, if necessary.
- Extra lectures are scheduled after regular timetable and on weekends.
- For direct second year students extra lectures are conducted to cover the syllabus.
- Hands on sessions with PPTs during practical sessions to give live demos.
- Concerned theory related to the practical sessions is discussed during the respective practical sessions.
- To cope up with industrial practices, guest lectures from industry experts are conducted.

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

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

- As institute is affiliated to Savitribai Phule Pune University, Pune, examinations are conducted by the affiliating university; their results are analyzed twice in year. Institute organizes remedial classes for poor result courses.
- Two class tests, assignments, module tests, viva etc. are conducted at regular intervals and analyzed and discussed to improve quality of teaching-learning.
- The institute takes feed-back from all stakeholders and implements suggestions as per to enhance teaching learning activity.
- Every semester the institute collects the student's feedback one's and higher authorities take corrective action for the betterment of teaching –learning process. Performance of faculty is calculated by following formula

$$\text{PI (Performance Index)} = [(a*5) + (b*3) + (c*1)] / [(d*5)]$$

- For students attendance two times Daily Attendance Monitoring is carried out in institute.

- To check the academic progress weekly meeting of the HOD by the Principal and staff meeting by HOD were called.
- Student attendance monitoring and reporting of the same to the parents by letter and telephonic conversation.
- Institute organizes Parent Meets to convey the progress of student to parents and find out some solution if performance is poor.
- Continuous academic Monitoring through AMC which do the Supervision of lecture and practical sessions. If any lacunas then Counseling of staff members and students for improvement.
- CA- Continuous Assessment of the students.
- Academic information are provided to the students for self assessments of attainment of learning outcomes.
- Appreciation & Honored of students and departments for best performance in University Results.
- Institute management takes academic progress review at the end of every semester to improve quality of learning.

2.4 Teacher Quality

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

The recruitment of faculty and staff is as per the AICTE/UGC/SPPU guidelines. The Institute appoints teachers based on student strength and workload calculation. The selection process is as follows:

- The roster is verified by the Assistant Commissioner, Reservation Cell, Pune and Mantralaya, Maharashtra State.
- After approval from the Reservation Cell and SPPU, the advertisements are published in leading newspapers.
- Few applications are also received from reservation cell of SPPU.
- Applications for recruitment are scrutinized as per the AICTE/UGC/SPPU norms.
- Technical and personal interviews of the candidates are carried out by the selection committee appointed by SPPU.
- Upon selection of qualified candidates, the appointment letters are issued to them. Information about qualifications of regular faculty is shown in **Figure 2.4.1 (a)**.

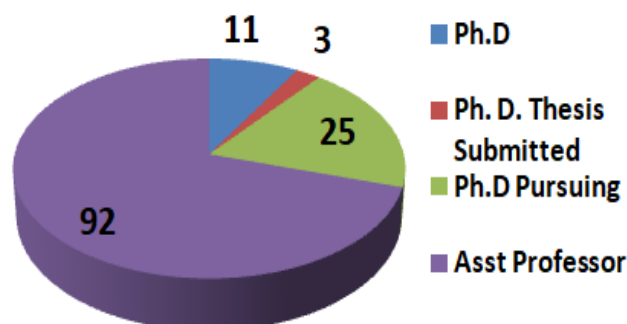


Figure 2.4.1 (a): Qualifications of Current Faculty

- List of selected candidates and their documents are submitted to the University for Further Process and approval.
- For appointments on temporary basis the applications are invited, demo lectures and walk-in interviews are carried out to select qualified and well-deserved candidate as a faculty. The appointment order of such faculty for an academic year is issued. *Table 2.4.1* shows current faculty position.

Table 2.4.1: Current Faculty Position

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc./D.Litt	0	0	0	0	0	0	0
Ph.D.	5	0	0	2	0	0	7
M.Phil.	0	0	0	0	0	0	0
P.G.	0	0	11	0	58	51	120
P. G. Pursuing	0	0	0	0	0	0	0
Adjunct Teachers							
Ph.D.	4	0	0	0	0	0	4
M.Phil.	0	0	0	0	0	0	0
P.G.	0	0	0	0	0	0	0
Pro-term Lecturer	0	0	0	0	0	0	0
Part Time Teachers							
Ph.D.	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0
P.G.	0	0	0	0	0	0	0

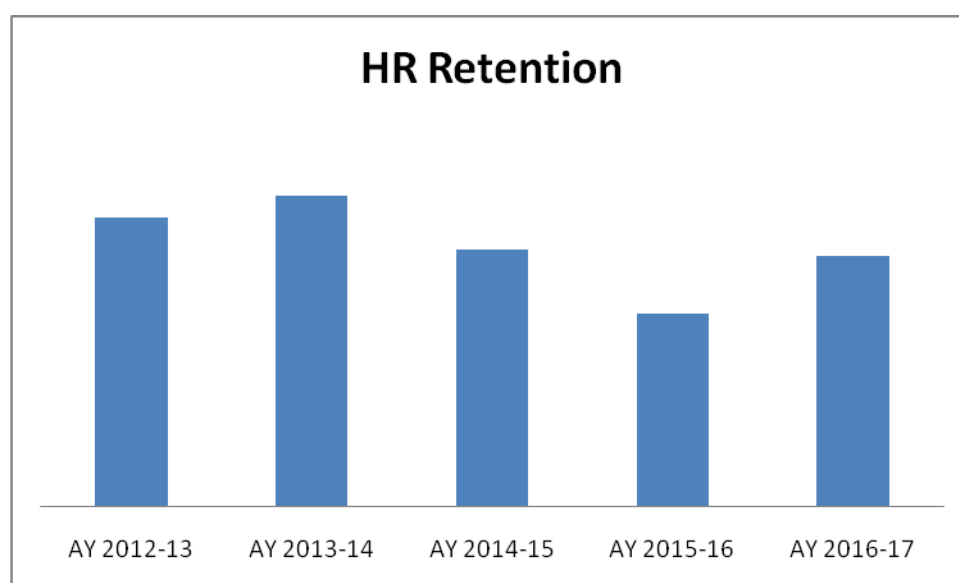


Figure 2.4.1 (b): HR Retention (2012-2017)

The percentage of Retention of faculty and staff at KJCOEMR shown in **Figure 2.2.1(b)** is due to:

- Ideal working environment in the campus with great respect and value to teachers and staff.
- Salary, DA, and other allowances paid as per the state government policies.
- Cognizance of performance appraisal and qualification improvement of the employees by the respective HOD & Principal for annual increment and higher post.
- Faculty are encouraged to write and publish articles, books, as well as research papers based on research experimentation which is very well supported by the institute.
- Financial help is provided to faculty for participating in FDPs, workshops, seminars and conferences.
- FDPs are organized to enable the teachers to adapt to changing needs of society.
- Guest lectures by experts from various sectors are arranged to motivate faculty and staff.
- Encouragement and appreciation of participation of international conferences and training programmes.
- Allocation of theory and practical subjects as per their area of specialization and preference.
- Freedom and transparency in every department because of which ownership feeling in every faculty and staff.
- Flexibility in working load is provided for higher education.
- Admissions to the eligible wards of employee are given to schools and institutes on priority basis.
- Leaves and vacation given as per government rules and regulations particularly maternity leave for lady faculty and staff.
- Staff welfare through group insurance of all faculty and staff, provident fund, gratuity, service book maintenance etc.
- Transparent policies and decisions of the management are always in favor of staff and followed rationally.
- Innovative ideas given by any faculty or staff are very well appreciated by the management.

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.

The institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas by following ways:

- The institute has appointed qualified faculty to handle new and emerging subjects proposed in the curriculum of SPPU.
- Encouragement to faculty for doing research in new emerging areas and percolating the same among the students.
- Institute recruitment process is throughout the year and whenever institute gets qualified senior faculty, we conduct interviews and appoint him/her.
- The Institute also arranges FDP to refine the skills of faculty as per the need of the curriculum.

- Overall number of faculty with PhD and PG qualification involved in T-L-P has been improved in last four years as shown in **Figure 2.4.2 (a)**.

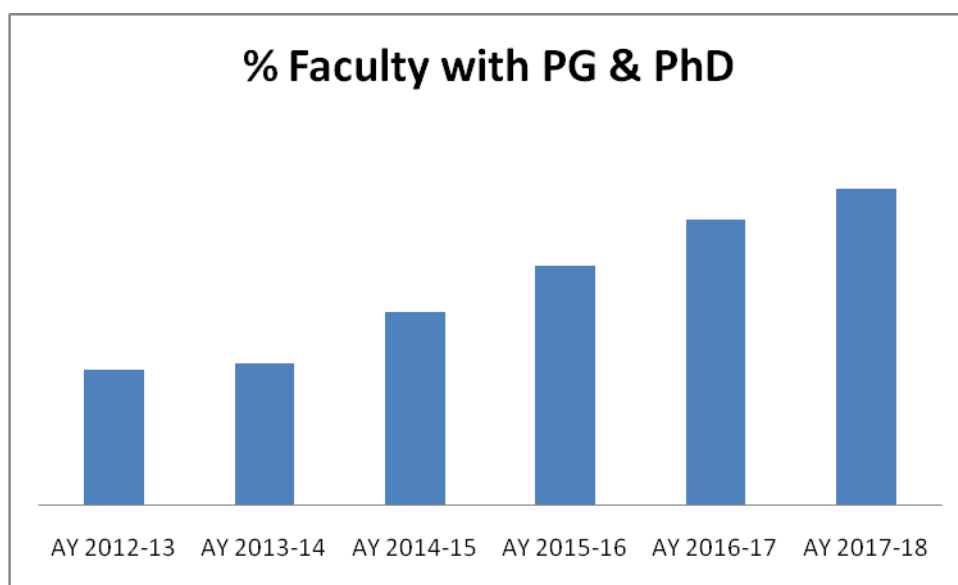


Figure 2.4.2 (a) Number of Faculty and their Qualification Improvement

- Institute has a policy towards inviting senior professors / industry experts as visiting faculty to teach new programmes and modern subjects whenever required. The remuneration spend on expert lectures conducted in various departments in last four years as shown in **Figure 2.4.2 (b)**.

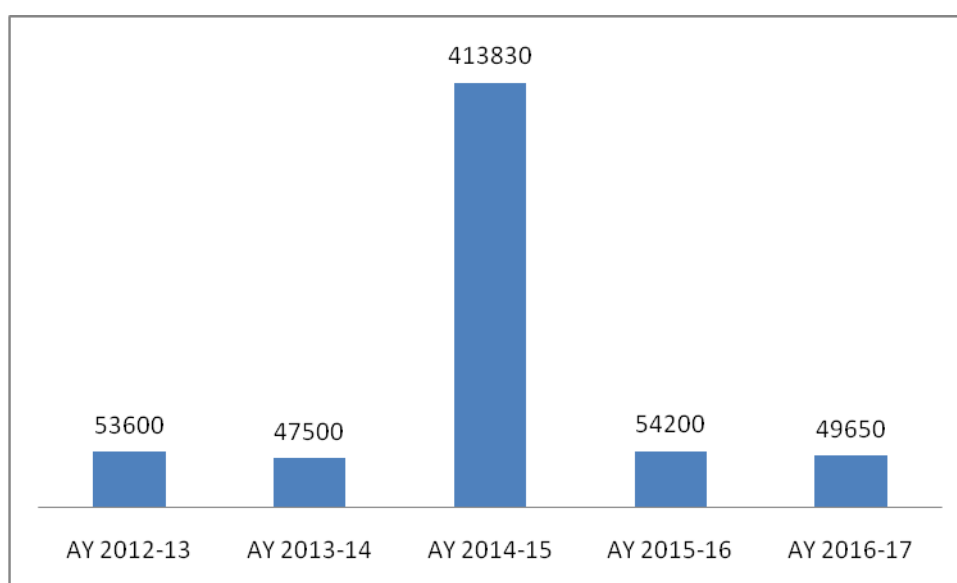
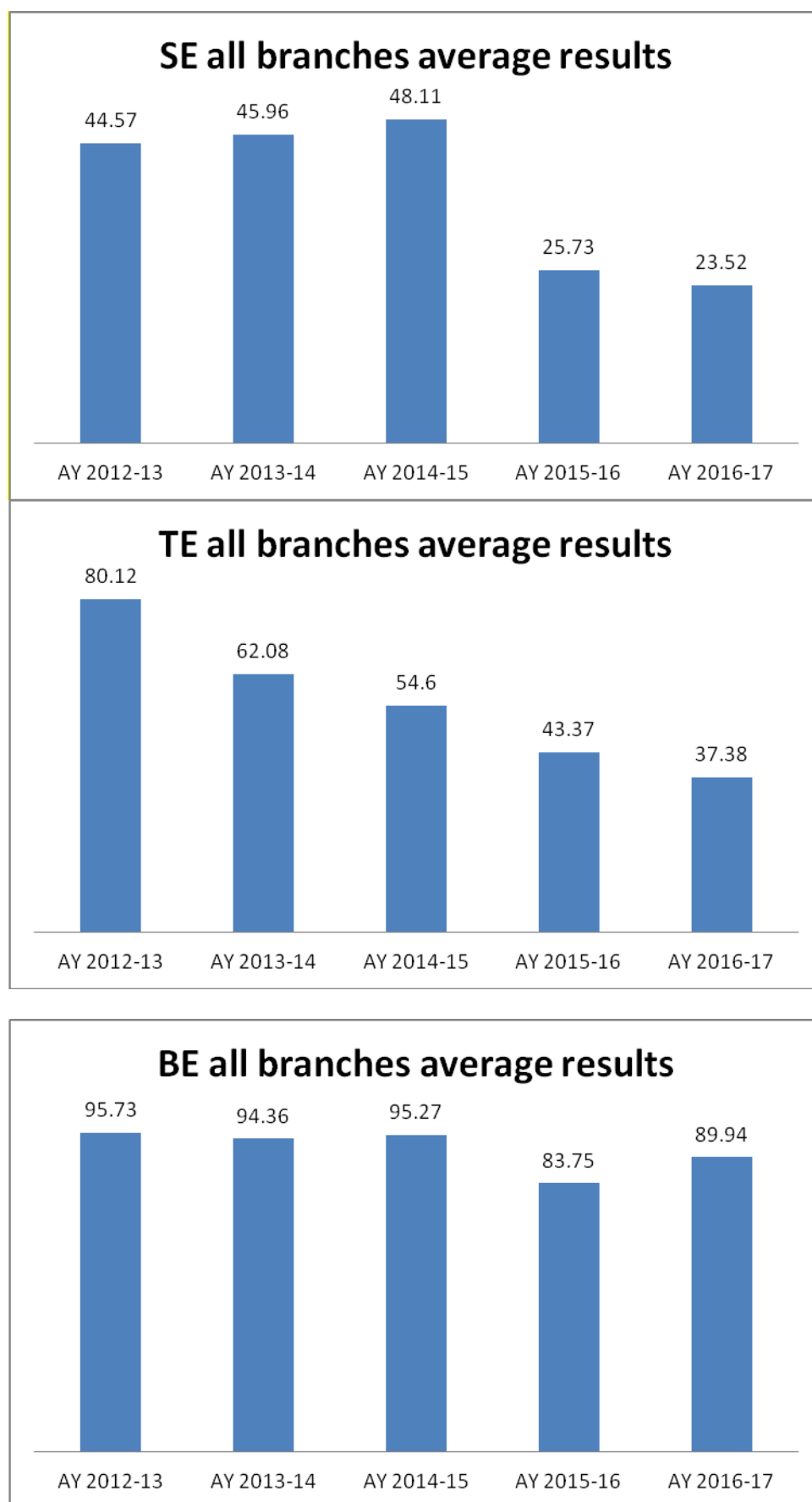


Figure 2.4.2 (b) Remuneration spend on Expert Lectures Conducted (Rs.)

- Because of efforts made by the faculty, the SEM-II and final results of all the students have been improved as shown in **Figure 2.4.2 (c)**.

*Figure 2.4.2 (c): Year wise Academic Results*

- Final year results of all the departments are as shown in **Figure 2.4.2 (d)**.

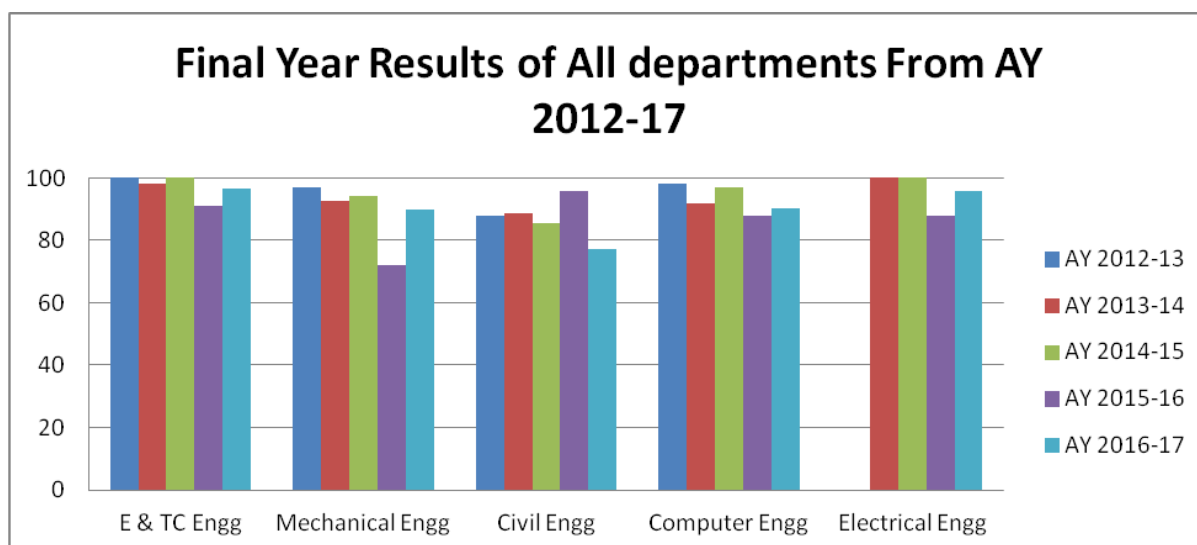


Figure 2.4.2 (d): The Average Result of Final Year Students

- The placement of AY 2016-17 has been improved by various efforts taken by every department. The percentage placement of students in demanding branches for AY 2015-16 through CPC is as shown in **Figure 2.4.2 (e)**.

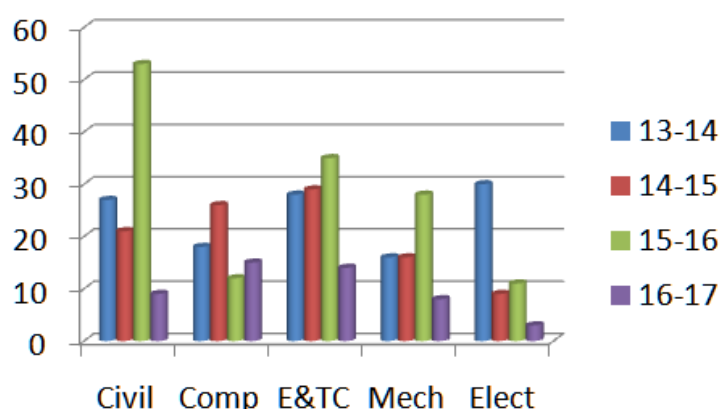


Figure 2.4.2 (e): Students Placed through CPC

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.

The institute has adopted the strategies based on enhancing the teacher quality to improve:

- Communication skill and teaching pedagogy of faculty
- Technical knowledge with respect to current needs of industry
- Research oriented innovative culture
- Practical skills and industrial exposure
- Managerial skills and make faculty as a leader
- Ability of faculty to understand the students of today's generation
- Understand today's corporate world and inputs to be given to students for their overall development
- The value ethics in order to make them good citizens in the society

a) Nomination to staff development programmes:

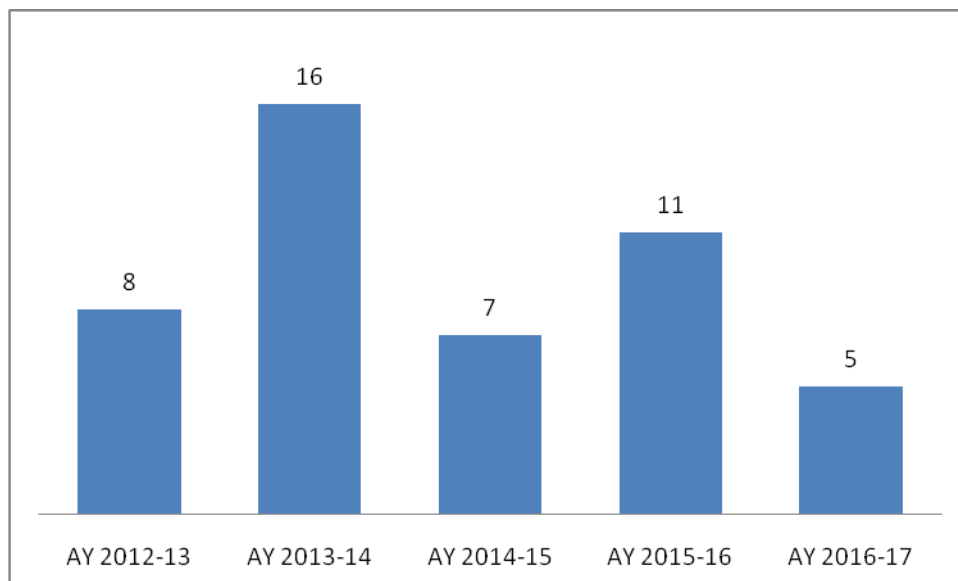
Summary of staff development programmes conducted during the last four years is as shown in *Table 2.4.3(a)*.

Table 2.4.3(a): Academic staff development Programmes

Academic staff development Programmes	No. of Faculties Nominated
Refresher Courses	8
Staff training conducted by the University	0
Staff training conducted by other Institutions	138
Summer/winter schools, workshops, etc.	115

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

The management has a positive attitude towards the professional development of the faculty in acquiring knowledge of recent developments and engaging them in research activities. Summary of faculty workshops/seminars/FDPs organized during last four years at KJCOEMR is as shown in *Figure 2.4.3*.

*Figure 2.3.4: Summary of Faculty Workshops/Seminars/FDPs Organized***c) Faculty invited as resource person in W/S, Seminar/FDP, participated in W/S, Seminar/FDP, presented papers in conferences.**

The faculty of KJCOEMR is also offering their expertise services as a resource person in W/S, Seminar, and FDP. They are participating in various W/S, Seminars, and FDPs as well as presenting their research work in conferences. The consolidated details of the same are as presented in *Table 2.3.4(b)*.

Table 2.4.3(b): Academic staff development Programmes

Sr	Event description	Total number
----	-------------------	--------------

01	Invited as resource person in W/S, Seminar/FDP	15
02	Participated in W/S, Seminar/FDP	115
03	Presented papers in conferences	148

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

The Institute has defined policies in order to place to recharge faculty by following ways:

- The institute organizes excursions and get-togethers for teachers and staff for refreshing their minds.
- During these get together, brain storming sessions are conducted for generating new ideas or ways to accomplish short-term and long-term goals of the institute.
- A study leave is granted to faculty pursuing higher education such as PG and Ph.D.

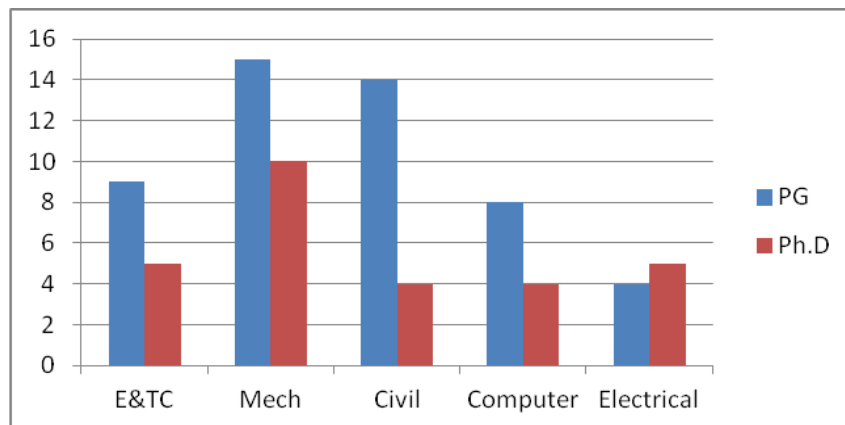


Figure 2.4.4. (a): Number of faculty nominated for higher studies

- Teachers are encouraged to carry out quality research and present/publish papers in national international conferences/journals. The institute provides on duty leave for attending seminars, conferences, STTP and FDP.

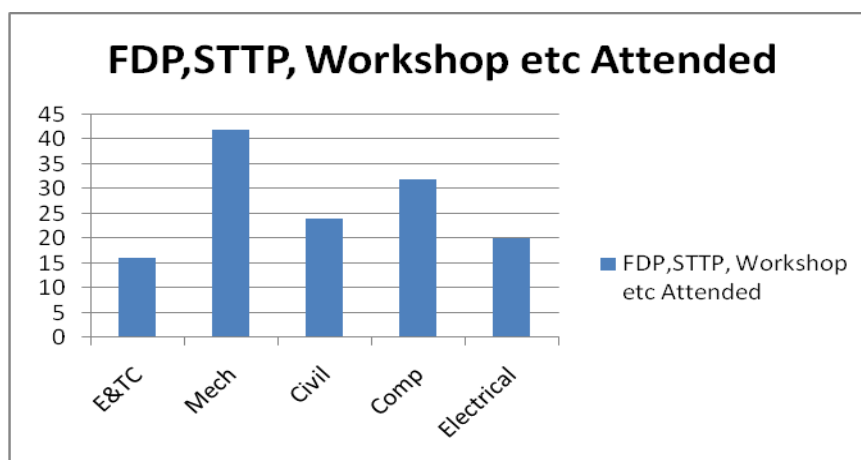


Figure 2.4.4. (b): FDP,STTP, Workshop etc Attended

- Teachers are motivated to apply for obtaining research grants from various funding agencies such as AICTE, BCUD, and SPPU etc.

Table 2.4.4.: Research grant from AICTE BCUD SPPU

SN.	Name of Faculty	Research Grant	Funding Agency	Amount Sanction Rs.
1	Prof. J.M. Nighot	CUDA Accelerating Pattern matching Algorithm using DNA sequence to detect cancer.	SPPU	1,50,000
2	KJCOEMR	National Conference on Signal Processing, Computing Modeling & Mechatronics.	SPPU	1,60,000
3	KJCOEMR	Antenna Array & Reconfigurable Antenna	SPPU	60,000

- Institute supports the research activity by providing budget for various facilities like equipment, software, e-resources for research publications, library books etc.
- Faculties are motivated to undergo online courses such as NPTEL.
- The institute gives financial support for registration fees to the faculty to attend conferences, Workshops etc.
- The institute also supports industrial interaction and encourages the Faculty to take live problems of society for their research and publish them in reputed journals having good impact factor.
- The special programs are arranged to discuss research methodology, technical report writing and various research areas. During these discussions, faculty members can take inputs from renowned personalities from research organizations.

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

The Institutional culture and environment welcome the innovative and ideas put forth by faculty and whole heartedly support in terms of guidance, time and finance, which eventually contributes to performance and achievement of the faculty. To name few awards/ recognition of the faculty shown in **Table 2.4.5.**

Table 2.4.5: Teaching Awards

Sr. No.	Name of Faculty	Award Received
1	Prof. P. U. Chavan	Academic Excellence Award by KJCOEMR
2	Prof. S. K. Patil	Academic Excellence Award by KJCOEMR
3	Prof. A.S. Kabule	Best Teacher Award by KJCOEMR
4	Prof. P. P. Chavan	Gravity Award <ul style="list-style-type: none"> • Best Teacher Award for 100% Result in Electronic Product Design subject.
5	Prof. P.N. Behere	Life Membership for Indian Society for Hydraulics

6	Prof. P.P. Minde	Best Teacher Award for 100% Result in Architecture & Town Planning subject.
7	Prof. S.N. Lohote	2 nd Rank in Civil PGCON paper presentation
8	Prof. B.K. Makam	Distinction Prize at Sinhgad College of Engg., Solapur for Fundamental Experimentation in Civil Engineering.
9	Prof. S.M. Patil	Gravity Award
10	Prof. Dr. S.S.Khot	Awarded Excellence in Engineering Education by Pune Municipal Corporation
11	Prof. A. K. Meshram	Best paper award at ICCUBEA2017

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?

The Institute evaluates teachers by taking feedback from students and external peers

- **Direct Method:**
 - ✓ **Evaluation of Teachers by students**
 - Students give feedback about their teachers twice in every semester through the online system.
 - The students can also provide suggestions through the suggestion boxes.
- **Indirect Method:**
 - ✓ **Evaluation of Teachers by External Peers**
 - AMC members visited to classes and evaluate the performance of teacher.
 - AMC and HOD of department also analyze exam results.
- **Students Feedback Analysis**
 - ✓ AMC Committee consisting of HOD and feedback coordinators are formed to analyze the feedback where the strengths and areas of improvement of faculty are identified.
- **Effects and Improvements due to Feedback by students**
 - ✓ Faculty having poor feedback work on their issues and they put more efforts in weak areas.
 - ✓ Technical knowledge and Communication skills of faculty are found improved.
 - ✓ Faculties have attended FDPs for their improvements.
 - ✓ The institute has tradition to apprise the teachers every year. The appreciation of the faculty members based on academic results and student's feedback (>90%), significant contribution in research, leadership quality in handling various responsibilities, improvement of qualification etc.

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?

Being an associated with SPPU, University procedures are pursued strictly in the institute. The circulars, notices regarding evaluation issued by SPPU are sent to all departments through administration and exam departments.

For students

- Notices/circulars from SPPU regarding evaluation process are displayed on the notice boards and are also communicated to the students.
- Induction program is conducted at the start of academic year for First Year engineering as well as direct second year students, where parents and students are made aware of the evaluation processes and academic plan of the semester.
- Term work evaluation of students is based on different parameter like attendance (8 marks-theory & practical), internal exam (5 marks) and continues assessment (12 marks). Students are made aware of this assessment scheme in the Induction program.
- Schedule & Structure of internal and University Examination pattern are discussed to the students **Figure 2.5.1(a)** illustrate the information of FE Examination pattern and **Figure 2.5.1(b)** illustrate FE end theory evaluation process.



Figure 2.5.1(a) :- FE Examination pattern

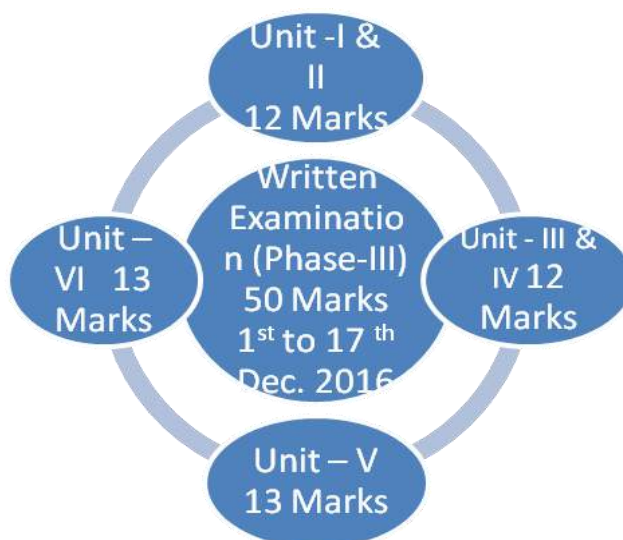


Figure 2.5.1(b):- FE end theory evolution process.

For Faculty

- Notices/circulars are distributed to faculty in meetings or by emails of HODs.

- Appraisal assessment plan is discussed with staff.

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

The major evaluation reforms of the university are as follows:

- **Appointment of CEO:** - As per the instruction of SPPU, institute has appointed experienced & approved faculty member as a college examination officer (CEO). And we always conduct all examination under the supervision of principal (as a chairman) & CEO. The Examination Committee consists of the Principal, CEO along with administrative examination section, senior supervisor and invigilators of the institute.
- **SPPU Examination Pattern** - SPPU has introduced an examination pattern and a concept of continuous evaluation through in-semester examination and end-semester examination per semester. The institute has smoothly adopted all the rules and procedures of the university. The revised examination structure is as shown in **Table 2.5.2** follows.

Table 2.5.2 SPPU Evaluation Pattern

Year	Exam by SPPU	Marks	Exam by SPPU	Marks
FE	Phase I[25 M],Phase II[25 M]	50	End Sem theory exam	50
SE	Phase I[25 M],Phase II[25 M]	50	End Sem theory exam	50
TE	In-semester	30	End Sem theory exam	70
BE	In-semester	30	End Sem theory exam	70
ME	In-semester	50	End Sem theory exam	50

- **Computerization-** SPPU has introduced online examination for evaluation of first and second year engineering students. The institute conducts online examinations during every semester. The marks of term work, practical/oral examination and in-semester are submitted online to the university.
- **Appointment of Internal Examiners-** The institute appoints internal examiners for the practical/oral examinations as per the guidelines of the university.
- **Credit system-** As per the SPPU guidelines credit system has been introduced for the UG and PG Programmes recently.

Reforms initiated by the Institute

- Two online examination (50 marks) for FE & SE and Insemester examination (30 marks) of TE & BE are conducted as per the guideline of SPPU. And also conduct end theory examination at the end of the semester.
- For smooth conduction of university examination CEO prepare exam committee.
- For examination institute prepare the students through practice session like unit test, Mock test, Prelim, assignment and mock practical session. Also arranges remedial classes for weak students.

- Through continuous assessment methodologies, we can observe the students performance in practical slots, classroom, regular completion of task given by faculty, understanding etc. students are also evaluate through different competitions.
- As per the instruction of SPPU, Institute has arranges the central assessment of papers(CAP) for TE &B.E(evaluation of insem paper).For that appoints a CAP director to look after the complete process from paper checking to online marks filling on university site.

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?

Effective implementation of the evaluation reforms

University Level

- Institute strictly follows all university exam schedules as per the guidelines of SPPU.
- Online, In semester, practical, oral and end theory examination per semester are conducted as per the pattern and schedule (Time table)of SPPU.
- For smooth and systematic conduction of exam, institute has already set up one exam section and CEO is deputed for all university examination.
- For effective implementation of all examination, CEO prepares exam committee. Roles are distributed to every faculty members as well as non teaching members. University also appoints one experienced external examiner as a university representative for end theory examination from other college.
- Being an associated with university, institute follow all exam's rules and regulation and all norms rigorously.

Institute Level

- At the institute level, effective implementation is supervised by principal, CEO, HODs and exam coordinator of each department. They ensure a) conduction of internal exam b) smooth conduction of online & insem exam c) completion of term work d) submission and conduction of practical exam e) university exam duties f) conduction of end theory exam g) assessment of insem paper and online marks filling on university portal.
- Higher authority ensure by making faculty and students aware of the reforms and supervise their completion strictly

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

- **Formative Assessment**

Formative assessment helps to supervise the students by teacher during learning process. Some factors of Formative assessment are conduct by following manner.

- ✓ Attendance of theory and practical
- ✓ Practical performance
- ✓ Assignment
- ✓ Internal Exam
- ✓ Seminar and project work

- ✓ On time submission
- ✓ Aptitude test (By T&P)
- ✓ Involvement in technical program

All these factors give idea about student performance.

- **Summative Assessment**

Summative Assessment is conducted per semester and it is based on following factors

- ✓ **University based**
 - Online and insem exam
 - Project work
 - Seminar
 - Practical oral examination
 - Theory examination
- ✓ **Institute based**
 - Unit Test
 - Mock Test
 - Prelim
 - Project demonstration
 - Mock practical exam
 - Institute has regularly conducted cocube assessment test for B.E. students

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.)

Internal assessment scheme is finalized in faculty meeting. The students and parents are made aware of the internal assessment scheme through induction program and parent teacher meet. The final outcome of this assessment is also discussed with them. The parameters for assessment are 1) behavioral aspects 2) independent learning 3) communication skills.

- **Behavioral aspects**
 - ✓ Overall behaviors of students are also responsible for term work assessment of students.
 - ✓ Attendance of theory & practical reflects the consistency of students.
 - ✓ The overall development of students gets reflected not only in academic performance and mark sheets, but also in developed personality and confidence amongst the students due to acquired knowledge and skills.
- **Independent learning**
 - ✓ Independent learning ability of the students is evaluated based on their innovative project idea & their concept, and technical paper presentation.
 - ✓ Faculty also keeps an eye on independent involvement of the students in extra-curricular activities and recommends suitable marks to HOD for further consideration.
- **Communication skills**
 - ✓ Students are evaluated for communication skill during seminar and presentation of their projects as well as practical/oral examinations.
 - ✓ Through group discussion and debate.

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 SPPU and the institute:

- **Engineering Knowledge:** - To apply fundamental concepts of mathematics, science, engineering to solve engineering application problems.
- **Problem Analysis:** - To analyze a problem, to conduct experiment, interpret and analyze the results with logical reasoning.
- **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 understand engineering and management principles and apply them in their own work, as a member/leader of a team to manage projects.
- **Life-long Learning:-** To recognize the need for and an ability to engage in life-long learning.

The institute has formulated programme outcomes for all its programmes in line with graduate attributes for their attainment. In addition to ensure the attainment of these graduate attributes following curricular, co-curricular and extracurricular activities are conducted.

- Teaching learning process strongly supported to provide educational knowledge. The basic Engineering subjects are taught with rigorously. Students are able to understand the problem, formulate the mathematical structure and analyze its solution using basic principles of mathematical science. Core engineering subjects are taught more practically so the students are able to develop projects with help of all engineering features. Guest /expertise lectures help to enrich the knowledge of the students.
- To boost team work and leadership qualities among the students, institute organizes youth fest including sports, technical and cultural events.
Student council is one platform of the institute to provide opportunity to the student's team work. ACES, MESA, CESA, EESA, ETESA are different departmental student associations which work in team for successful programs in departments.
- Institute has commenced to bridge the gap between technical students and society by involving them in social activities through NSS and various social program like blood donation camp, clean up drives, tree plantation and traffic safety awareness program.
- Project competitions like gravity are organized to develop the skills and students are made aware about the utility of social application, environmental conscious about their models.

- Regular conduction of industrial visit updates the information about the information about current/modern tools.
- Apply the moral and ethical principles, responsibility, commit to professional ethics and standards of engineering practice.
- Arrange seminar on latest topic, based on social, how to evaluate problem and design & progress of solution.

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

Based on the guide lines provided by the SPPU, the institution has developed a full-fledged mechanism for redressal of grievances with reference to evaluation only for end theory semester examination in the current session. SPPU is not consented for online, insem, oral/practical, term work, seminar and project examination.

- **Departmental level**
 - ✓ The assessed answer sheets of internal tests are given to the students and discussed the answer with them. If students having any grievances with internal evaluation then they can directly discuss their quarry individually with respective subject teacher.
 - ✓ In case of any grievances, students can contact HOD or senior faculty member.
- **Institute Level**
 - ✓ The institute appoints a Senior Supervisor who controls all the online/ theory examinations, displays schedules, instructs to the students for smooth conduction of examinations of university.
 - ✓ Grievances during the conduction of online/theory examinations of students are solved by Senior Supervisor in coordination with CEO appointed by the university. Grievances are discussed with the Principal and forwarded to SPPU, if necessary.



Figure 2.5.7: Grievances Handling with Reference to Evaluation

- **University Level**
 - ✓ Conduction & schedule of examination, examination online form, PNR, allotment of exam seat no. , paper setting, paper assessment and result declaration are done by SPPU.
 - ✓ After the declaration of result, student can apply photo copy /Xerox copy of answer book. From college, application form for photo copy forwarded to the Controller of examination of SPPU then SPPU supplies photo copy to the institute.
 - ✓ If any quarry/problem is noticed by the examinee he/she should apply to SPPU through principal with said photocopy for a) Mistake in totaling b) non assessment of answer c) less marks to the answer d) mistake in mark sheet.

2.6 Student Performance and Learning Outcomes

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

Yes, The institute has clearly stated learning outcomes in terms of Program Educational Outcomes (PEOs) and learning outcomes in terms of Program Outcomes (POs) for each program which are achieved through Course Outcomes (COs) and Co-Curricular Activity Outcomes (CCAO) in individual departments as shown in **Figure 2.6.1.**



Fig. 2.6.1.:PEOs and POs through COs in every Department

The PEOs for preparing graduates who will:

- Successfully demonstrate technical competency by applying knowledge in industry, government, academia, research, entrepreneurial pursuit and consulting firms,
- Contribute to society as broadly educated, expressive, ethical and responsible citizens with proven expertise,
- Achieve peer-recognition; as an individual or in a team; through demonstration of good analytical, design and implementation skills.
- Flourish to pursue life-long learning to fulfill their goals.

The POs and COs for preparing graduates having ability:

- To apply knowledge of mathematics, science and engineering in practice,
- To identify, critically analyze, formulate and solve engineering problems,
- To select appropriate engineering tools and techniques and use them with skill,
- To design a system and process to meet desired needs within realistic constraints such as health, safety, security and manufacturing ability,
- To devise and conduct experiments, interpret data and provide well knowledgeable conclusions,
- To understand the impact of engineering solutions within purview of laws, in a contemporary, global, economical, environmental, and societal context for sustainable development,
- To function professionally with ethical responsibility as an individual as well as in multidisciplinary teams with positive attitude,
- To communicate effectively,
- To appreciate the importance of goal setting and to recognize the need for life-long learning,
- To produce well informed socially responsible global citizen with sharp critical thinking skills having sound awareness about engineering laws and human rights, ethics and values.

Awareness among faculty, staff, and students:

- The faculty, staff, and students are aware of PEOs, POs and COs as they are given along with their curriculum syllabus in every class.
- The outcomes are reviewed in the meetings of AMC at the beginning of every academic year.
- The faculty explains the outcomes expected from the students in the orientation classes / beginning lectures at every semester.

- The outcomes expected from the students for the program are displayed at prominent places in the department.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of course/Program? (Program/ Course wise for last four years) and explain the differences if any and patterns of achievement across the Programs / courses offered.

All the departments of the institute has two mechanisms for monitoring of student's academic performance throughout the semester, out of which some are internal tools and some are university defined.

- Internal Tools:** Monthly Class tests, prelims, tutorials, pre in sem exams, mock exams.
- University mechanism:** In Semester and End Semester exam, Online exam, PR/OR/TW

Prepare a result analysis report of university exams and compare it with previous reports as shown in **Table. 2.6.2(a)**.

Table 2.6.2(a): BE Result Analysis

SN.	Program	All clear Passing percentage of B.E students				
		AY 2012-13	AY 2013-14	AY 2014-15	AY 2015-16	AY 2016-17
01	E & TC Engg	100	98	100	91	97
02	Mechanical Engg	96.92	92.8	94.33	72	90
03	Civil Engg	87.8	88.89	85.42	88	75
04	Computer Engg	98	92	97	88	90
05	Electrical Engg	NA	100	100	88	94

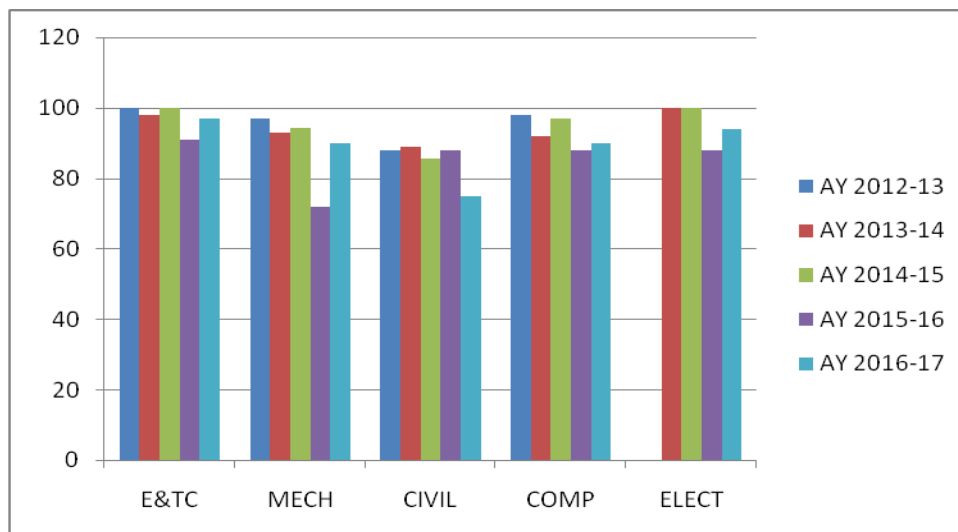


Figure 2.6.2: BE Result Analysis

Performance shown in the **Table 2.6.2 (b)** is conveyed to students as well as parents through Notice Boards, Letters, Mails, Phone calls, university web site. Also Student's progress & performance in extracurricular activities is observed as it caters the overall development of the student which is necessary towards achievement of learning outcomes.

Table 2.6.2(b): No of prizes won by students in extra & co curricular activities

SN	Program	No of prizes bagged by the students in extra & co curricular activities				
		AY 2012-13	AY 2013-14	AY 2014-15	AY 2015-16	AY 2016-17
01	E&TC	--	--	01	09	06
02	MECH	01	01	--	08	05
03	CIVIL	--	--	--	--	10
04	COMP	12	17	11	02	16
05	ELECT	02	04	03	09	08

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

The strategies structured by the institution to facilitate the achievement of the intended learning outcomes are as follows:

Teaching Strategies:

- Academic coordinator prepares institute as well as department level academic calendar by referring SPPU calendar, class time tables by referring course structure.
- Course teacher prepares the teaching plans and Academic monitoring committee observes the balance between lectures available and syllabus completion.

Learning Strategies:

- To attain the desired learning outcomes, Course teacher implements various modes of delivery such as tutorials, assignments, question banks, seminars, quiz, Industrial visits, ppts, NPTEL videos, etc

Assessment Strategies:

- **Direct Assessment:**
 - ✓ Internal and external examinations in theory and practical sessions.
 - ✓ Online examinations.
 - ✓ Oral Examinations, seminars, tutorials, and assignments.
 - ✓ Term work, assessment of assignments.
- **Indirect Assessment:**
 - ✓ Alumni feedback
 - ✓ Program feedback
 - ✓ Course end survey
 - ✓ Mid-semester feedbacks
 - ✓ Placement

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

The measures/initiatives taken up by the institution to enhance the social and economic relevance (quality jobs, entrepreneurship innovation and research aptitude) of the courses offered are as follows:

- **To enhance skill set of students towards quality jobs:**
 - ✓ Organize STPs (Eg. Auto Cad, PLC, C+ Workshop),
 - ✓ MoUs with industries (Persistant, Zensar, Cad-Cam Guru, BSNL, Etc)
 - ✓ Expert lectures, industrial visits, personality development programs,
 - ✓ National level Paper presentations (NCSPCMSM)
 - ✓ National level Project competitions (Gravity) etc.
- **Entrepreneurship development cell (EDC)** in order to fuel entrepreneurship innovation qualities. Examples of entrepreneur students:
 - ✓ PravinZagade- Sunriser Solutions Pvt. Ltd,
 - ✓ SangramShendkar- Shendkar Electrical works, etc
- **In order to build research aptitude institute motivates and facilitates to:** take up sponsored projects, industrial trainings, publish research papers, participate as well as conduct national conferences, project competitions, Site visits, etc. The institute has established NATIONAL SERVICE SCHEME (NSS) which strives to serve the society by conducting various social activities such as Blood donation camp, Swachh Bharat Abhiyan, etc. It not only connects the budding engineer to the society but also leads to overall development of the students.

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

Institute asses learning outcome in terms of subjective knowledge and skills.

Learning outcomes= Subjective knowledge + Skills

- **Data Collection & Analysis:**
 - ✓ **Knowledge;** Unit test marks, attendance (TH & PR), results analysis after every exam for all subjects, project feedback, viva voce.
 - ✓ **Skills;** Team work, Communication (OR/WR) - Involvement in practical, lab assignments, presentations, project work, co & extracurricular activities.
 - ✓ **Collect & analyze feedback from stakeholders:** Parent, Alumni, Employers, etc. GFM meeting, HOD meeting
 - ✓ **Corrective action:** Faculty is given feedback for their self improvement, remedial lectures and practical, soft skill training, stakeholder's suggestions are used to improve T-L process & minimize gap between industry & academics.

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

T-L process is observed by the Academic Monitoring Committee (AMC) according to the flow shown in the **Fig. 2.6.6**. It can be seen in the figure that the process continues till achievement of learning outcomes is ensured.

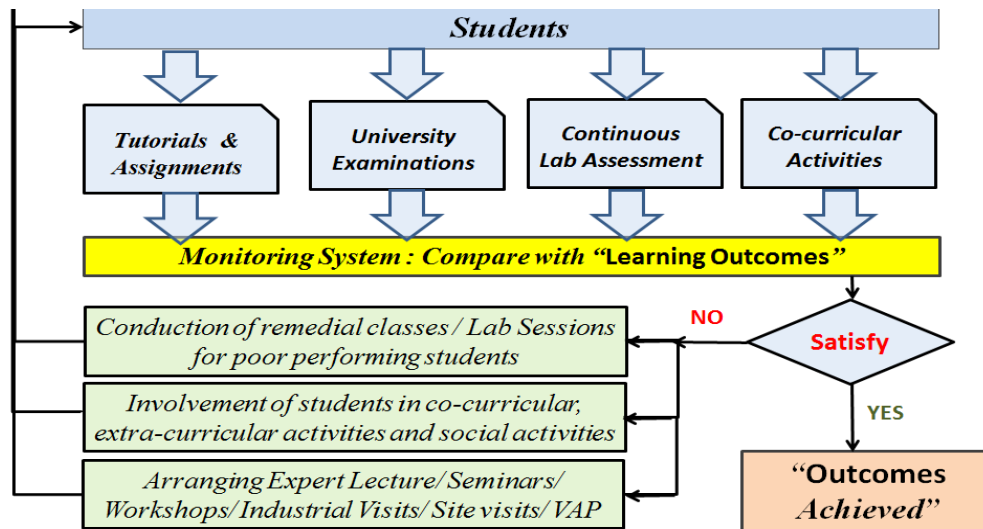


Figure 2.6.6: Monitoring & Ensuring Achievement of Learning Outcomes

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

Yes, the Institute and individual teachers use assessment/evaluation outcomes of tools & methods mentioned in 2.6.2 & 2.6.5 as an indicator for evaluating student performance, achievement of learning objectives and planning. Following are the indicators for evaluating student performance.



Figure 2.6.7: Indicators for evaluating student performance

- The result of class test and SPPU examination are indicators of student's academic performance. Slow learners and attendance defaulters are identified for remedial classes.
- The institute also considers placement record and number of entrepreneurs produced as an indicator.
- Results of the internal tools mentioned in **Figure 2.6.2** are used by the respective course teachers as a feedback on student performance during the semester. Slow learners are identified and proper corrective and preventive actions are planned, so that students can improve their performance in the university exams.
- **For Example,** If a student scores less marks in Class tests, Pre in Semester course teacher prepares them takes corrective action (Extra sessions for theory/practical) to improve the performance in university examinations.
- Course teacher also plans and executes preventive actions (Question banks, University paper solving, and mock exams) so that slow learner in internal exams can improve their performance in university examinations.
- Results of university examinations are used by the course teacher to improve the performance in the same course for the next batch of students.

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CRITERION III: Research, Consultancy, and Extension

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

The institute does not have recognition as a research center of SPPU. However, the institute is running four PG programs i.e. Master of Engineering (Computer Engineering), Master of Engineering (Computer Network), Master of Engineering (Mechanical- Design Engineering), Master of Engineering (Civil- Structural Engineering). Institute conducts the various activities like Industrial Visits, Conferences, Inter-disciplinary work through the events like Gravity, Spiritua, Mechximus, GoKart, BAJA.

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

Yes, the institute has a Research Committee (RC) to monitor and address the issues of research as shown in **Table 3.1.2**. The RC meets once in a six months and takes initiatives in monitoring and addressing the research activity in each department. The discussions related with various activities of the department and proposals are converted into recommendations by the committee. These recommendations are then followed in all the departments.

Table 3.1.2: The Research Committee

SN	Name of the Committee Members	Designation	Designation of Research Committee
1	Dr. S. S. Khot	Principal	Chairman
2	Dr. V. J. Kakhandki	Professor(MECH)	Research Head
3	Dr. S. B. Wadkar	Professor(MECH)	Member
4	Dr. H. R. Kulkarni	Professor & HOD(FE)	Member
5	Dr. P. N. Deshmukh	Asso Professor(FE)	Member
6	Mr. S. K. Patil	AssoProfessor & HOD (CIVIL)	Member
7	Mr. P. U. Chavan	Asso Professor & HOD(E&TC)	Member
8	Mr. D. C. Mehetre	Asso Professor & HOD (COMP)	Member
9	Mr. Lalit Kumar	AsstProfessor & HOD (ELECT)	Member
10	Mr. NagarajuBogiri	Asst Professor(COMP)	Member
11	Ms. M. P. Kharache	Asst Professor(COMP)	Member

Objectives of RC:

- To inculcate research culture in all departments.
- Enhance interactions between researchers having same domain area.
- Promote and increase research publications.
- Undertake industrial and social problems for research.
- Awareness towards Intellectual Property Rights (IPR).
- Work for development of KJCOEMR as a R&D center.

Some of the important recommendations given by RC are as follows:

- Encourage the faculty members to pursue Ph.D.
- Appreciation of faculty and students for publications and their research findings.
- Financial support for participation at national / international conference.
- Subscription of online journals to avail recent world-wide research.
- Encourage students to participate in research related activities.
- Inculcate research culture in the institute by arranging motivational lectures.
- Emphasize towards awareness of research, patent, copy rights, research tools etc.
- Motivate faculty for BCUD research proposals.
- Encourage students for participation in project competition.
- Undertake projects with specialized themes and social needs.
- Motivate faculty for consultancy, sponsored projects, and industry interaction.
- Promote interdisciplinary projects.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

The measures taken by the institution to facilitate progress and implementation of research projects are as follows:

- **Autonomy to the principal investigator:** The Principal Investigator (PI) is given full autonomy to select the area and research problem. PI motivates the students to involve in the research projects. Institute deputed the PI to visit various research organizations to avail the special research facilities.
- **Timely availability or release of resources:** The funds are released as and when required and timely available for any resources for the research work carried out by the faculty. The institute has signed MoU with Zensar to facilitate the students to carry out their research work.
- **Adequate infrastructure and human resources:** The institute has well equipped labs, infrastructure, and facilities to carry out research projects. The faculties are allowed to go to any research organization for research interactions, experimentations, or collection of data needed for their research. The necessary funding is available from institute budget as well as BCUD research grants.
- **Time-off, reduced teaching load, special leave etc. to teachers:** This is provided on case to case basis on request submitted by the faculty. Faculty and students are encouraged to use the laboratory and library facilities even after the working hours. Teaching load of faculty suitably adjusted for perusal of their research work. Special study leaves are also given to complete the research work within time.
- **Support in terms of technology and information needs:** The institute has IT infrastructure with modern configurations. Wi-Fi and adequate internet bandwidth facility supported by subscription of various reputed journals are in place. Various training programs on research methodology are also arranged to encourage and motivate the faculty and students. Institute allows faculty and students to avail support from research organizations while using advanced technology and equipment.
- **Facilitate timely auditing and submission of utilization certificate to the funding authorities:** Faculty and students are utilizing the institute research budget and grants

to complete their projects within time. The account department of the institute and SPPU extend their help for timely auditing of research projects and submission of utilization certificate to the funding authorities. Students are also getting financial and equipment support from industry which they are utilizing for their innovative projects while participating at national competitions.

- **Any other:** Institute deputed the faculty for post doctoral Programs. Institute offered sponsorship to Dr. S. J. Wagh to complete his research work at Aalborg University Denmark. Faculty members are pursuing post doctoral at different universities under deputation with special leaves.

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

Students work on mini-projects and ideas in their domain of interest while participating in various competitions. The final year projects of UG and PG students are implemented as per the guidelines of SPPU. The different events like project expo, poster competitions, Gravity, Spiritua, Mechximus, GoKart, BAJA are organized at institute. Institute promotes the students to participate to events like ROBOCON, Avishkar, PGCON etc. Every department motivates the students to take industrial live projects, where the students can take help from industry experts. For that institute provide necessary recommendation. The institute facilitates and gives support to the students for presenting and publishing their papers based on their research findings in conferences and journals. Industrial visits, seminars, workshops, and guest lectures are also organized to bridge the gap between academia and industry.

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.)

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

- Guides the UG students for seminars, projects, and technical papers.
- Recognized PG guides to supervise research work of PG students.
- Participation and presentations of research papers in conferences and journals.
- Faculty members apply and receive BCUD project grants.

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

Institute conducts workshops/ training programmes/ sensitization programmes to develop research culture among the faculty and students. **Figure 3.1.6** shows year wise conferences, seminars and FDPs conducted in the institute.

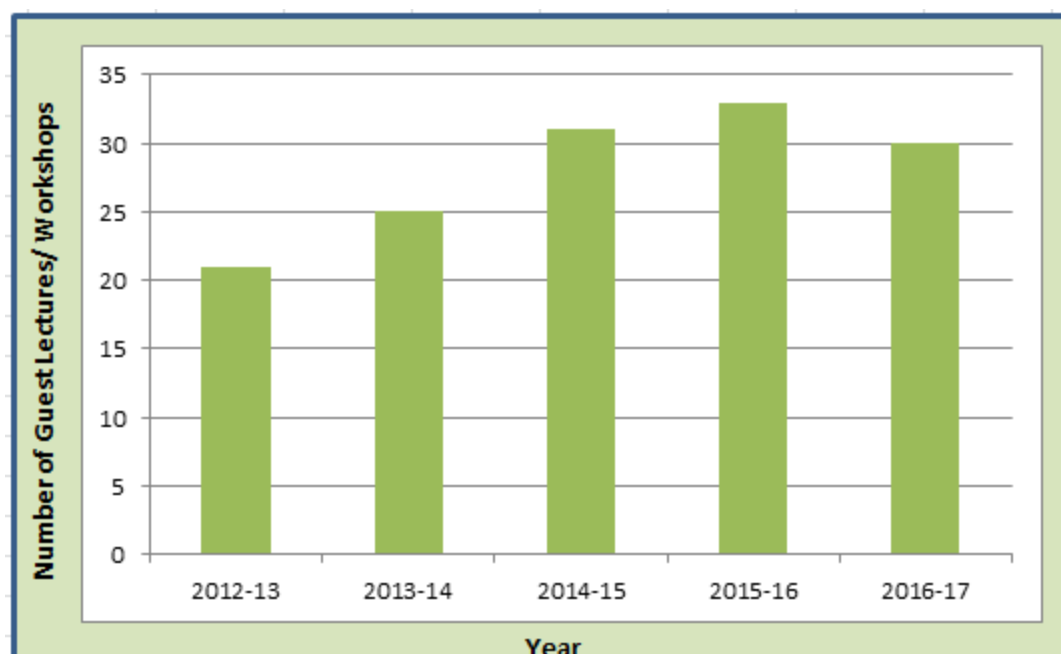


Fig.3.1.6: Workshops, Seminars, FDPs and other Activities in Institute

The details of workshops/ training programmes/ sensitization programmes are as follow in **Table.3.1.6.**

Table 3.1.6: Details of Workshops, Seminars, FDPs and other Activities in Institute

SN	Workshop Details	Date
1	Advanced Embedded Systems	17 th & 18 th Sept 2012
2	One Day Workshop on Detailing of Syllabus of ME computer Engineering & ME Computer Networking commencing w.e.f. 2013-14	9 th November 2012
3	Information and Communication Technology	11 th and 12 th March 2013
4	PLC Workshop	8 th to 13 th July 2013
5	ME Academic process program	12 th August 2013
6	Emerging Trends in Database	25 th and 26 th October 2013
7	Two days workshop on PCB design using Ultiboard	13 th & 14 th September 2013
8	Workshop on B.E. (Elex. & E&TC) Practical Exam Oct 2013.	8 th October 2013
9	Workshop on LabVIEW and its Applications in AC	6 th February 2014
10	Two days workshop on MAT Lab and its Applications	4 th and 5 th February 2014
11	Workshop on C++ and Java	5 th February 2014
12	Workshop on Ethical Hacking	6 th & 7 th March 2014
13	Spoken Tutorial Workshop	8 th , 22 nd , 24 th , 25 th , 26 th , 27 th February 2014
14	Workshop on Entrepreneurship Development	18 th to 20 th March 2014
15	Workshop on Ethical Hacking	6 th & 7 th March 2014

16	Workshop on TMT and LabVIEW	4 th march 2014
17	PLC Workshop	14 th to 18 th July 2014
18	Two days workshop on Research Methodology and Mathematical Modeling with LabVIEW	13 th and 14 th February 2015
19	Identification and Formulation of PG/Research Projects, Technical Paper Writing & Hands on LATEX	28 th and 29 th March 2015
20	IBNC workshop	27 th and 28 th August 2015
21	Workshop on PLC	1 st to 5 th Sept 2015
22	Workshop on Java	9 th and 10 th July 2015
23	Antenna Array, Re configurable Antennas and Satellite Communications	28 th to 30 th Jan 2016
24	Workshop on Latex	23 rd April 2016
25	Workshop on “PLC SCADA”	19 th to 23 rd Sept. 2016
26	Workshop on “Autocad”	22 nd to 25 th Feb 2017
27	Workshop on “C Programming”	16 th to 18 th Jan 2017
28	FDP on Database Management System Lab	16 th June 2017

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

There are three to four main research areas in every department of the institute. The faculty in these areas are doing their own research and also guiding the students. Based on these research areas faculty members are giving various projects to the UG and PG students. They are also guiding seminar activity in their respective departments and inculcating the research culture among the students is shown in **Table 3.1.7**.

Table 3.1.7: The Details of Prioritized Research in the Institute

Department	Area of Research	Available expert faculty
E&TC	Analog CMOS	Dr. S. S. Khot
	Robotics, Devices and Circuits	Mr. P. U. Chavan
Mechanical	Industrial Engg.	Mr. P. E. Ingle
	Design Engineering	Dr. S. B. Wadkar
	Heat Power	Mr. S. G. Mandave
	CAD Design	Mrs. G. S. Patil
Civil	Rainfall-runoff modeling	Mr. S. K. Patil
	Reinforces concrete and structures	Mr. A. B. Pujari
	Remote Sensing & GPS	Mr. V. C. Hulsure
Computer	Mobile Computing	Mr. D. C. Mehetre
	Networking	Mr. M. K. Nighot
	Distributed Database	Mr. V. B. Maral
Electrical	Power System, Electrical Machines	Mr. Lalit Kumar
	High voltage Engg.	Mr. Mohit Kumar Shakya
	Electrical Power Systems	Mr. B. S. Bisht
Engg Science	Holography & thin film	Dr. H. R. Kulkarni
	Organic Chemistry	Dr. P. N. Deshmukh

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The institute has taken lot of initiatives in terms of organizing seminars, workshops, conferences, and training programmes in various departments. The academicians and professionals are invited for participating in these activities. The list of various Eminent Professors and Scientists visited to the institute are shown in **Table 3.1.8**.

Table 3.1.8: Eminent Professors and Scientists visited to the Institute

SN	Name of Eminent Personalities
1.	Mr. Ramjee Prasad, Founding Chairman, Global ICT Standardization Forum for India (GISFI)
2.	Mr. Nigel Jefferies, Chairman, Wireless World Research Forum(WWRF)
3.	Mr. Raghunath K Shevgaonkar, Director Indian Institute of Technology Delhi (IITD)
4.	Mr. BrahimaSanou, ITU
5.	Mr. Anil Kaushal, Sr. DDG, TEC, DoT, GoI (tbi)
6.	Mr. R. K. Bhatnagar, Advisor (Technology),DoT,GoI (tbi)
7.	Mr. T. R. Dua, Vice Chairman, GISFI
8.	Mr. Vinod Kumar, Alcatel-Lucent, France
9.	Mr. Rahim Tafazolli, University of Surrey, UK
10.	Mr. Christos Politis, Kingston University, UK
11.	Mr. SureshwaranRamadass, USM, Malaysia
12.	Mr. Yongxing Zhou, HUAWEI, China
13.	Mr. KJ Wee, ITU-R, Korea
14.	Mr. Krishna Sirohi, I2TB-SPPL, India
15.	Mr. SandeepInamdar, VishwaNiketani, India
16.	Mr. Saurabh Bhatia, IBI, India
17.	Mr. Knud Erik Skouby, CTIF Copenhagen, Denmark
18.	Mr. ArunGolas, DDG, TEC, DoT, GoI (tbi)
19.	Mr. Anand R. Prasad, NEC, Japan
20.	Mr. ArvindMathur, CISCO, India
21.	Mr. Sudhir Dixit, HP, India
22.	Mr. AshutoshDutta, NIKSUN (tbi)
23.	Mr. Hendrik Berndt, NTT DoCoMo, Germany
24.	Mr. DebuNayak, Huawei, India
25.	Mr. Balamuralidhar P., TCS, India
26.	Ms. Mini Vasudevan, Ericsson, India
27.	Mr. Balwant Sharma, BIT, India
28.	Mr. ParagPruthi, NIKSUN
29.	Mr. NiranthAmogh, Huawei
30.	Mr. BasavarajHooli, Individual Member
31.	Mr. RakeshAgrawal, VNL
32.	Mr. Pawan K. Garg, Member, Radio Regulations Board, ITU; Former Wireless Advisor, Government of India.
33.	Mr. Tilak Raj Dua, GISFI
34.	Mr. Sanjay Kumar, BIT Mesra
35.	Dr. N. G. Patil, G. S. Mandal'sMarathwada Institute of Technology,

	Aurangabad, India.
36.	Dr. Raju S. Pawade, Dr. BabasahebAmbedkar Technological University, Department of Mechanical Engineering, Lonere, India.
37.	Dr. Sachin S. Naik, Dr. BabasahebAmbedkar Technological University, Department of Mechanical Engineering, Lonere, India.
38.	Dr. Padmanabhan Krishnan, Assistant Director and Professor, Centre for Excellence in Nano Composites School of Mechanical and Building Sciences VIT-University, Vellore, India.
39.	Dr. Indrajit Mukherjee, Shailesh J. Mehta School of Management, Indian Institute of Technology Bombay, Powai, Mumbai, India.
40.	Dr. SubrataSinha, Centre for Bioinformatics Studies DibrugarhUniversity, Assam, India.
41.	Dr. Avanish Kumar Dubey, Department of Mechanical Engineering, M.N.N.I.T. Allahabad, India.
42.	Dr. ShashikanthaKarinka, NMAM Institute of Technology,Nitte, Karnataka, India.
43.	Dr. Sandeep S. Kore, Sinhgad Academy of Engineering, Kondhwa(Bk.), Pune, India.
44.	Dr. S. A. Khan, Principal, Z. H. College of Engineering & Technology AMU, Aligarh, India.
45.	Dr. P. S. Dabeer, Principal , Trinity College of Engineering & Research, Pune, India.
46.	Dr. V. J. Kakhandki, Principal , Trinity Academy of Engineering , Pune, India.
47.	Dr. Suhas P. Deshmukh, Sinhgad Academy of Engineering, Kondhawa, Pune,India.
48.	Prof. Prashant S. Sadaphule, AISSMS IOIT, Pune
49.	Mr. Aditya Gandhi, IBNC, India
50.	Mr. Sunil More, Sanjeevan Engineering and Technology Institute, Panhala, Kolhapur
51.	Dr. M. S. Sutone, Dean & Academics Affairs, COEP, Pune
52.	Dr. D. S. Bilgi, Principal, TSSM BSCOER, Narhe, Pune
53.	Dr. G. A. Hinge, Vice Principal, TSSM BSCOER, Narhe, Pune
54.	Dr. N. M. Lokhande, TSSM BSCOER, Narhe, Pune
55.	Dr. Vijay Bivde, Department of IT, SKNCOE, Pune
56.	Dr. S. S. Patil, BharatiVidyapeethUniversity, Pune
57.	Mr. T. A. Chavan, Department of IT, SKNCOE, Pune
58.	Mr. S. R. Shinde, VIT, Pune
59.	Prof. Dr. Sachin D. Babar, Professor, SIT Lonavala
60.	Mr. SanjeshPawale, Assistant Professor, VIT, Pune
61.	Mrs. Madhavi Kale, Soft Skill Trainer, Pune
62.	Prof. AishwaryGavand, JSPM, Hadapsar, Pune
63.	Mr. SwapnilNaik, Software Architect, A-Four Technologies
64.	Prof. M. B. Nimbalkar, SCOE, Pune
65.	Mr. Mahesh Kedar, Senior Data Analyst, IBM, Pune
66.	Prof. N. B. Pokale, TSSM's BSCOER, Narhe, Pune
67.	Prof. G. T. Chavan, SCOE, Pune
68.	Ms. Arundhati Reddy, Impulse Technologies and Business Solutions

	Pvt Ltd.
69.	Mr. SandipWaghole, Dassaunt Systems
70.	Mr. SachinPalve, TCS
71.	Mr. Rahul Patil, L&T InfoTech
72.	Dr. Vijay Bivde, Dept of IT, SKNCOE, Pune
73.	Prof. T. A. Chavan, Dept of IT SKNCOE, Pune
74.	Prof. SandipShinde, VIT Pune
75.	Dr. Suhas S. Patil, BharatiVidyapeeth Deemed University, Pune

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 facility of availing sabbatical leave for research activities is available in the institute. Most of the faculties have utilized these leaves for their research related activities. Institute gives special leave for the faculty for perusal of research projects, attending workshops, guest lectures, and Ph.D. work. It also grants special leaves for completion of PG work. Long period leaves are also provided for faculty doing research. The sabbatical leave availed by various faculty members are listed in **Table 3.1.9**.

Table 3.1.9: Sabbatical leave for Research Activities

SN	Year	O.D. granted to following Staff with Pay	
1	2013-14	Mr. V. B. Maral	Design and Analysis of Algorithm Concept Discussion
2	2014-15	Mr. D. C. Mehetre	IEEE Paper Presentation at DCCOE
3	2014-15	Mrs. N. M. Lokhande	IEEE Paper Presentation at DCCOE
4	2014-15	Mrs. P. P. Chavan	Ph.D Presentation
5	2014-15	Mr. A. S. Kabule	Ph.D Course work
6	2015-16	Mr. A.B. Pujari	Post Graduate conference
7	2015-16	Mr. S. M. Patil	FDP SDMT subject at JSPM Narhe
8	2015-16	Mr. K .M. Bagwan	International Conference
9	2015-16	Mr. S. L. Gadhave	National Conference at Ramchandra COE
10	2016-17	Prof .V. B .Maral	Design & Analysis of Algorithm Concept
11	2016-17	Prof. D. C. Mehetre	IEEE Paper Presentation at DCCOE
12	2014-15	Prof. N. M. Lokhande	IEEE Paper Presentation at DCCOE
13	2014-15	Prof. P.P. Chavan	Ph. D Presentation
14	2014-15	Prof. A. S. Kabule	Ph. D. Course work
15	2015-16	Prof. A.P. Pujari	Post Graduate conference
16	2015-16	Prof. S. M. Patil	FDP SDMT subject at JSPM Narhe

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 project exhibitions, research poster competitions and invites the school students and community is shown in **Table 3.1.10 (a) & (b)**.

- By publishing research papers in high impact National, International journals.

- By conducting national/international conferences in various departments
- PG student research group is established. The group delivers seminars and tutorials on recent trends in respective disciplines.

Table 3.1.10(a): International/National Conferences and project competition details

SN	Name of the Program	Date
I	Conferences	
1	International Conference on Design, Manufacturing and Mechatronics (ICDMM 2015)	11-13 Feb 2015
2	National Conference on signal processing computer modelling & Mechatronics (NCSPCMM2K16)	11-12 March 2016
3	National Conference on signal processing computer modelling, structures & Mechatronics (NCSPCMSM2K17)	15-16 March 2017
II	Project Expo and Poster Competition	
3	Gravity 2K15 A Project Expo	27-28 Feb 2017
4	Gravity 2K16 A Project Expo & Poster Competition	3-4 March 2017
5	Gravity 2K17 A Project Expo & Poster Competition	17-18 Feb 2017

Table 3.1.10(b): Details of Publications by Faculty and Students

Department	Publications		
	Conference	Books	Journals
E&Tc	173	-	26
Mechanical	1	5	27
Civil	53	3	46
Computer	149	1	403
Electrical	14	8	43
Engineering Science	-	5	-
TOTAL	390	22	545

Table 3.1.10(c): Citation Indices by Faculty and Students

Google Scholar		
Citation Indices	All	Since 2012
Citations	452	443
h-index	9	9
i10-index	9	9

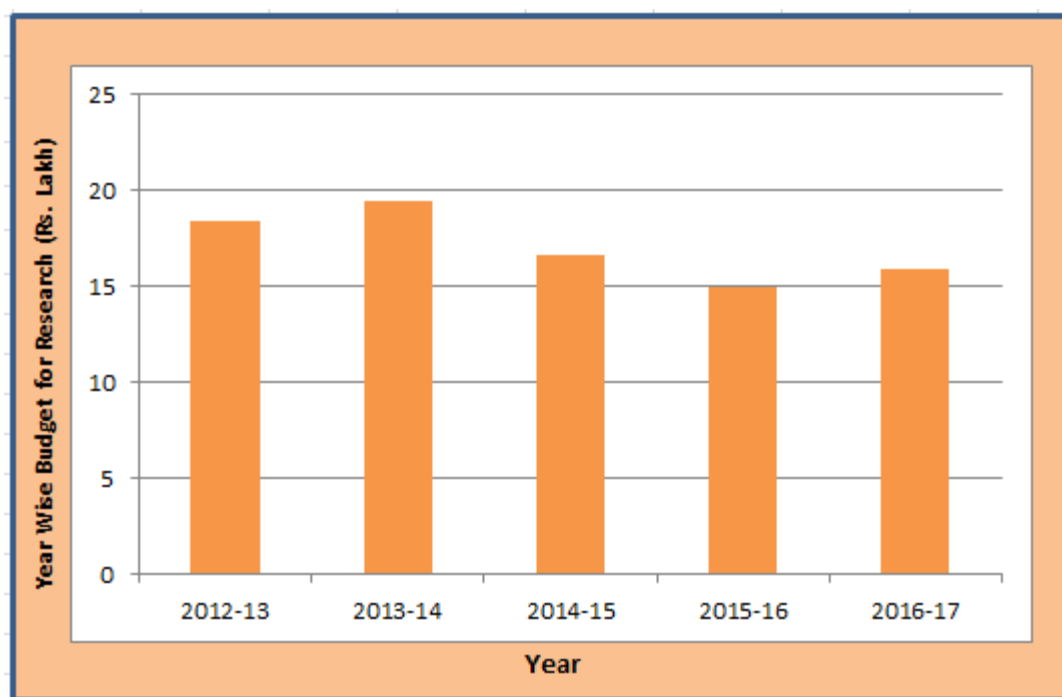
3.2 Resource Mobilization for Research

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:

The institutional total recurring and non-recurring budget along with the budget allocated for research in last four years is as shown in **Table 3.2.1 & Figure 3.2.1**.

Table 3.2.1: Budget Allocated for Research in Last Four Years

Expenditure Head	Year wise Budget [Rs. Lakhs]				
	2012-13	2013-14	2014-15	2015-16	2016-17
Recurring(R)	699.30	766.76	1075.77	1226.10	1645.29
Nonrecurring (NR)	478.84	392.48	413.05	386.73	279.55
TOTAL (NR + R)	1178.14	1159.25	1488.82	1612.83	2030.34
Research Budget	18.40	19.50	16.61	15.00	15.96

**Fig.3.2.1: Year wise Budget for Research Activities**

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

Yes, the institute has made provision for seed money to the faculty for research. The seed money from the budget is utilized for:

- Purchasing research related equipment,
- Organizing/participating FDP, seminars, conferences etc.

Table 3.2.2: Faculty availed Seed Money for Research

SN	Name of Faculty	Department	Reason	Year
1	Dr. S. J. Wagh	COMP	Post Doc	2010-11
2	Mr. P. R. Randive	MECH	Ph.D	2010-11
3	Mrs. R. A. Khedkar	ELECT	Ph.D	2015-16
4	Mrs. A. A. Kulkarni	E&TC	Ph.D	2015-16
5	Mr. S. S. Jadhav	MECH	Ph.D	2015-16

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

The financial provisions available to support student research projects are as follows:

- Institute provides funding for participation in SAE BAJA.
- Departmental student association organizes guest lectures, seminars, workshops, industrial/site visits to promote research activity among the students.
- Institute facilitates and gives support to the students for presenting and publishing their papers based on their research findings in conferences and journals
- Institute organizes Gravity Project & Poster Expo, National conferences, Technical Events like Spiritua, Solaris, Mechximus etc. and provides a platform for the students to showcase their innovative ideas.
- Institute also runs chapter of SAE BAJA, Gokart, Supra etc.
- Students are encouraged to go for internships, and institute grants special leaves to students

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

The students of different disciplines undertake interdisciplinary projects with prior permission of respective HoDs. One faculty for a group of 3 to 4 students from respective department takes follow-up and review of project progress. Guides from both the departments interact with each other while designing the system and checks the feasibility of solution in their respective domain area.

The institute has a RC that comprises of subject experts from various departments. Every department of the college has its own final year project coordinator. Faculty members from each department interact with the committee in undertaking inter-disciplinary research work. Challenges faced in organizing interdisciplinary research are as follows:

- Division of interdisciplinary project work in modules to fit their work as per University rules.
- Understanding of fundamental concepts across the discipline and application of these concepts to get the solution of the problem by interdisciplinary students.
- Change the mindset of the students and faculties and motivate them to handle interdisciplinary work and initiate their out-of-box thinking.
- Interdisciplinary departmental support and understanding of faculty guiding the students on one to one basis.
- Coordination of faculty, students and labs and defining scope of each area.
- Inter-disciplinary student team from all departments participate in SAE chapters.
- Go-kart design challenge is a contest formulated to enhance the approach of students practicing engineering courses. This event is fundamentally all about designing and fabricating a Go-Kart at very low expenditure. We expect the teams to manufacture Go-Karts yielding optimum performance.
- BAJA is an event for the undergraduate engineering students, organized globally by the SAE. The BAJA SAE tasks the students to design, fabricate, and validate a single seater four - wheeled off road vehicle to take part in series of events spread over a course of 3 days that test the vehicle.

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

To ensure optimal use of various equipment and research facilities available in the institute following policies are adopted:

- RC is formed at institute level
- Guidelines are provided by the RC to students and staff for carrying out the research work
- Students and staff are provided the research facilities available in the laboratories.
- Institute/Department has prepared the documents detailing name of equipment, its specifications, possible use and venue etc. which is circulated to staff and students to plan their research activities.
- Time tables of labs are also notified to all. If required additional slots are provided.
- Reference books, journals, and proceedings of national and international conferences are kept in library.
- Equipment and computing facilities related with the research domain are made available.
- Faculty takes initiative to interact with research organization or industry to get practical exposure to the students while completing their research activities.
- Financial provisions through BCUD grants, institutional budget are made available to all students and faculty.
- Industry helps the students to complete their research activities.
- Expert lectures are also arranged.

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

Yes, the institution received grants from SPPU. Students are also getting Sponsorship/Grants from industry for conduction of innovative competitions during technical fest Gravity and National Conference. The details of Grants /Finances received from Industry/BCUD to the institute are shown in **Table 3.2.6**.

Table 3.2.6: Grants /Finances Received from Industry/BCUD to the Institute

SN	Year	Sponsorship/ Grant	Sanctioned Amount	Received Amount (Rs)
1	2012-13	Spiritua sponsorship		170072/-
2	2013-14	BCUD Grant	1,90000/-	95000/-
3	2014-15	Gravity Poster and Project Expo2k15		15000/-
		Energy Audit Grant		25000/-
		Consultancy Charges		153500/-
		Sports Grants		6250/-
		Library Books		212000/-
		SPPU grant for Xerox Copier		100000/-
4	2015-16	Conference Sponsorship		1,50000/-
		Consultancy Charges		28600/-
		BCUD Grant	1,50000/-	75000/-
		Sports Grant		36250/-

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

The details of various support provided to the faculty in securing research funds from different funding agencies are as follows:

- Faculty members are motivated to apply for research grants from various funding agencies, organizations and industry.
- Information regarding dates for application, eligibility criteria etc. is communicated to all departments by the Principal through the RC.
- Faculty is granted OD and registration fees to present their proposals before funding agencies.

3.3 Research Facilities

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

Latest edition of reference books, manuals, periodicals, encyclopedias, national/international journals, e-books and handbooks are available in library shown in **Fig 3.3.1**.

- Institute has undertaken and initiated many activities to procure equipment and refurbishment works in various departments.
- Faculties are encouraged to submit research proposals to funding agencies and project specific equipment are procured in various departments.
- Refurbishment works are carried out to provide required space and environment for the conduct of research activities.
- Sponsorships are also provided to do innovative projects of the students to participate in national/international competitions like BAJA, Go-Kart, etc.
- Laboratory and computer facilities are provided for students and faculty with necessary internet facility, simulation, and modeling software.
- Wi-Fi facility is available in institute campus.
- National/international journals like Science Direct, ASCE, IETE, ACM, CSI, IEEE etc. are available.

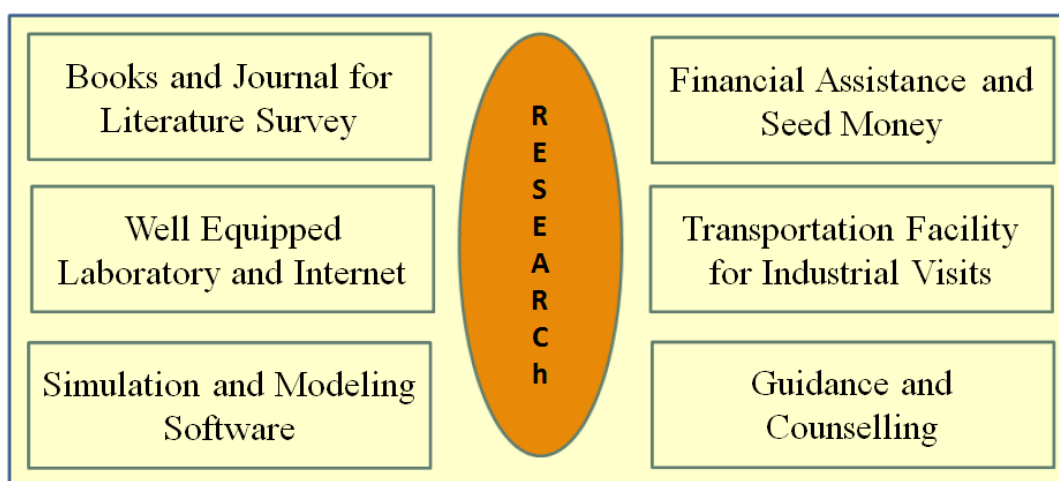


Figure 3.3.1: Research facilities within the Campus

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

The institutional strategies for planning, upgrading, and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research are as follows:

Strategies for planning for creating research infrastructural facilities:

- Every department is planning for the research infrastructural facilities required before the beginning of financial year. While planning, every department tries to share the infrastructural facilities from the other institutes. The latest infrastructural facilities that are needed to do experimentation are as far as possible made available in the institute itself.
- Once the department gets financial approval, they use to follow normal procedure of procurement of infrastructural facilities required to meet their need.
- Departments are also planning to conduct various workshops to motivate and guide the faculty in the new and emerging areas of research from various research organizations and industry.
- Strategy of creating state-of-the-art computing facility with latest simulation and modeling software along with necessary hardware is helping the faculty and students to think about innovative solutions for their research problems.
- Strategy is to enrich institutional library with a large range of books and various national/ international journals. Online IEEE and other journals are also accessible to the researchers.

Strategies for upgrading of research infrastructural facilities:

- Every year, institute is upgrading their existing research infrastructural facilities. While upgrading, the department makes sure about the latest technologies and makes them available in the department.
- Latest computing infrastructural facilities with necessary bandwidth of internet access is made available to all the departments. The bandwidth is also adaptively adjusted and upgraded in any of the department as per the requirement.
- Memory requirements of computer systems are upgraded and special function servers are also provided to meet the individual departmental need.
- Software and their upgraded versions and their annual licensing are upgraded on yearly basis.
- Strategy of creating upgradation with new available technologies is motivating all faculty and students to go far novel solutions with latest technologies.

Strategies for other research facilities:

- Students along with the allocated guides are motivated for selecting live industrial projects.
- Institute is continuously motivated to improve its infrastructural requirements in order to facilitate research in new and emerging areas encouraging faculty and students to attend research programs, workshops, seminars and conferences conducted in the institute and other organizations.

- Institute bears the registration fee, conveyance and sanctions duty leave for the same to encourage faculty members to attend research workshop, seminars, and conferences.

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.

The institution received grants or finances from the industry or other beneficiary agency for developing research facilities are as follows:

- There are few industries who supplies engine and spare parts to the students of Mechanical Engineering to do their innovative experimentation while preparing vehicle and participating in national level competitions such as BAJA.
- Students and faculty get sponsorship from various industries for their research experimentations.
- BCUD provides funds for internet usages, specific hardware/ software for research

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

The research facilities made available to the students and research scholars outside the campus are as follows:

- Industrial visits and seminars at industry.
- Participation in various project competitions and exhibitions.
- MoUs with industries to work on projects in specific domain.
- Participation in paper presentation, workshops, and training sessions in other renowned organization.

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

The institute has e-books, Digital Library, e-learning material like NPTEL course content etc. along with internet facility. Educational CDs & text, reference books are available in the library. Library has total 6,308 titles and 19,546 volumes of the books as on today. Every year we are adding new titles and books as per the need of students and faculty shown in **Table 3.3.5**.

Table 3.3.5: Research Journal Available in the Library

SN	Name of E-Journal	Number of Titles	Subject Area
1	Elsevier	275	Engineering (Electrical, E&Tc, Mechanical, Civil & Structural), Computer Science.
2	ASME	26	Mechanical Engineering
3	ASCE	34	Civil Engineering
4	IEEE	145	Computer Engineering, Computer Science, Electrical & Electronics Engineering
5	Digital Library	-	General Engineering and Reference.

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

The institute gives platform for every department in collaboration with other department, industry or any other research organization to organize seminars, conference and workshops beneficial for inter disciplinary research as shown in **Table 3.3.6**.

- Databases from other organizations are made available for collaborative research activities.
- Laboratory facilities available in every department can be shared by any faculty or students for their innovative research projects and activities.

Table 3.3.6: Research facilities available in Institute

SN	Department	Facility Available
1	Electronics & Telecommunications	9KHz – 3GHz Spectrum Analyzer, MATLAB Simulink Software, Optical Time Domain Reflectometer (OTDR), Microwind Software
2	Mechanical Engineering	Steam Power Plant, Metallurgy Lab, Metrology & Quality Control Lab, Workshop, CAD CAM
3	Civil Engineering	Universal Testing Machine (UTM), Total Station Survey Equipment, Transportation laboratory, and Environmental lab, Geotechnical lab
4	Computer Engineering	Computer Network with latest version of computers, necessary software, and dedicated lease line, IBM Servers, Manageable switches, Firewalls
5	Electrical Engineering	High Voltage Engineering Lab, Switch Gear and Protection Lab used for Research Work
6	Library	Central Library has total 19,546 books. e-journals, periodicals, Standard data sheets

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students.

The major research achievements of the faculty and students are as follows:

Patents obtained and filed (process and product):

Faculty members from different departments have registered for Ph.D. Their research is going on in various fields which will lead to file patents and publications.

Original research contributing to product improvement:

Research work of faculty along with the students contributed to the product improvement is as shown in **Table 3.4.1(a)**

Table 3.4.1(a): Research Contributing to Product Improvement

SN	Year	Faculty Name	Title
1	2015-16	Mr. R. G. Shaikh	Smart health monitoring system using wireless technology
2	2015-16	Mr. V. D. Ghanekar	solar power based smart irrigation system
3	2015-16	Ms. R. M. Pandharpatte	Online Payment system using steganography and visual cryptography
4	2014-15	Mrs. A. S. Hambarde	M-Banking using steganography and persuasive click points based Authentication
5	2014-15	Mr. A. B. Pujari	Effective positioning of shear wall in highrise RCC structure
6	2014-15	Mr. R. V. Katre	Automatic power factor correction using PLC
7	2014-15	Mr. B. S. Bishit	GSM based agricultural system
8	2014-15	Mr. S. G. Mandave	Design Analysis and manufacturing of 2X2 ATV
9	2013-14	Mr. P. U. Chavan	Network distributed control system
10	2013-14	Mr. A. S. Kabule	Development and manufacturing of hybrid vehicle with modified exhaust
11	2013-14	Mr. S. G. Mandave	Design and manufacturing of pneumatic hammer
12	2013-14	Mr. S. D. Bhagat	Design and manufacturing of Multipurpose agriculture vehicle
13	2013-14	Ms. Smitha P.	Home automation using PLC & SCADA
14	2013-14	Mrs. N. M. Lokhande	Power generation using speed breaker
15	2013-14	Mr. D. C. Mehetre	Location Based Pricing Tool using Android Application
16	2012-13	Mrs. R. M. Kedar	A Robot Motion Authoring using Finger- Robot Interaction.
17	2012-13	Mr. S. V. Wagh	Study of strength of concrete containing waste glass powder as pozzolona
18	2012-13	Ms. Toshi Bansal	Fingerprint based attendance using smart card
19	2012-13	Mrs. R. A. Khedkar	Fully automated rationing for public distributed system
20	2012-13	Mr. B. C. Kulkarni	GPS based public transportation system
21	2016-17	R G Shaikh	Smart Vehicle locking system with Digitally fuel level Indicator
22	2016-17	V D Ghanekar	Wireless car battery charging
23	2016-17	P N Maldhure	Controlling MP3 Module by using hand gesture
24	2016-17	Dr. S B Wadkar	Chairless Chair
25	2016-17	Prof. C M Gajare	implimentation of maglev wind turbine and solar palne for cctv and street light
26	2016-17	P A Chaudhari	Smart bike and advance security system
27	2016-17	Prof. Rohini Agawane	Automated Attendance system Using NFC and Face Recognition

28	2016-17	Prof. N.Bogiri	A model Approach to Secure data Transmission in Wireless Network of Medical Image
29	2016-17	Prof. SwapnilShinde	Controlling Robot Using gesture and leap motion camera

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

Research of faculty along with the students contributed to benefit the community or improving the services are as shown in **Table 3.4.1(b)**

Table 3.4.1(b): Research Benefiting the Community or Improving the Services

SN	Year	Faculty name	Research study / Survey
1	2015-16	Prof. K. K. Thoke	Smart Home Electricity Management System
2	2015-16	Prof. P. K.Kherdikar	Electricity billing using PLCC
3	2015-16	Prof. A. L.Nehete	Automatic rapping by using micro controller
4	2015-16	Prof. P. A.Chaudhary	PLC based coal conveyor belt automation
5	2015-16	Prof. S. S. Valunjakat	Fast response , gate control for traction system
6	2015-16	Prof. S. K.Patil	Rehabilitation of forts
7	2015-16	Prof. S. K.Patil	Study of plasma gasification for disposal of waste
8	2014-15	Prof. S. M.Patil	Class Room Monitoring System Using Wireless Web Cams Integrated With Mobile Computing
9	2014-15	Prof. D.C.Mehetre	Parking Management system using WSN
10	2014-15	Prof. P. P. Chavan	smart BRT with city bus tracking
11	2014-15	Prof. V. D.Ghanekar	Manual Trained Driving To Driverless Operation
12	2014-15	Prof. P. U.Chavan	Embedded Distributed System Using Wired & Wireless Communication Channel
13	2014-15	Prof. P. U.Chavan	Embedded Distributed System Using Wired & Wireless Communication Channel
14	2014-15	Prof. B. S.Bhist	GSM based agricultural system
15	2013-14	Prof. ManaliVashi	Android application for Metro Railway Ticketing
16	2013-14	Prof. V. Gupta	Hospitality centric VOD- Smart TV & Smart Rooms
17	2013-14	Prof. P. U.Chavan	Environmental radiation monitor system
18	2013-14	Prof. LalitKumar	Energy audit of village to optimize power consumption
19	2013-14	Prof. P. R.Minde	Assessment of seasonal water quality of Katraj lake
20	2012-13	Prof. S.S.Das	Automate and Secure your home using ZigBee
21	2016-17	S. G. Mandave	SUGARCANE EYE NODE CUTTER BY AUTOMATIC MACHANISAM

22	2016-17	Swapnali Hazare	Gram dryer by using heating coil
23	2016-17	B N Mulay	Agricultural Fish Farming by Aquaponics
24	2016-17	M K Shakya	Automatic car parking using microcontroller
25	2016-17	P K Kherdikar	Solared power dripping irrigation using android
26	2016-17	S S Valunjakat	Automatic energy meter reading using PLC
27	2016-17	P U Chavan	Green House Management using Shared Communication Channel
28	2016-17	A K Taware	Study of Optimization of Traffic Congestion At Intersection By Using Brt Lane
29	2016-17	A L Nehete	Energy audit of nanded city substation
30	2016-17	Prof. Rohini Agawane	E-Payment System using Usual Cryptography & Steganography
31	2016-17	Prof. Rohini Agawane	On summarization and timeline generation for evolutionary tweet streams

Research inputs contributing to new initiatives and social development:

Research of faculty along with the students contributed to new initiatives and social development are as shown in **Table 3.4.1(c)**

Table 3.4.1(c): Research contributing to new initiatives and social development

SN	Year	Faculty name	Research projects
1	2015-16	Ms. A. A. Bhosle	Smart Monitoring system by employing WSN on vehicles for pollution free smart cities
2	2015-16	Ms. R. R. Patil	Driver fatigue Detection Using Android Application
3	2015-16	Mr. S. K. Shinde	Vehicle theft control system
4	2015-16	Mr. R. G. Shaikh	Head mounted mouse & key board for physically disabled person
5	2014-15	Ms. P. P. Deshmukh	Detection of Plant Leaf Dieses
6	2014-15	Mr. M. K. Shakya	Self-Charging Electric Bicycle
7	2014-15	Mr. V. S. Kolekar	Heart disease prediction using data mining Algorithm
8	2013-14	Mrs. R. V. Agavane	Modelling and Detection of Camouflaging Worm.
9	2013-14	Ms. P. P. Deshmukh	Automatic ambulance rescue system
10	2016-17	P N Maldhure	Navigation Eye for Blind People
11	2016-17	Prof. N. Bogiri	Smart Garbage Collection System Using IOT
12	2016-17	Prof. Suhas Patil	Text to Pictorial Conversion for the Convenience for Dump & Deaf

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 is partner in publication of research work by making a tie up while conducting the conference in KJCOEMR like IETE approved National Conference on Signal Processing, Computer Modeling & Mechatronics (NCSPCMM2K16) and National Conference on signal processing, computer modeling, Structural & Mechatronics (NCSPCMSM2K17) to publish the selected papers.

Institute has a tie up with following publications:

- International Journal of Computer Application (IJCA), ISSN 0975-8887
- National Journal of Innovation and Research (NJIR), ISBN 2320-8961

3.4.3 Give details of publications by the faculty and students

At institute level, there are total 644 publications of faculty and students in last four years, shown in **Figure 3.4.3(a) & (b)**.

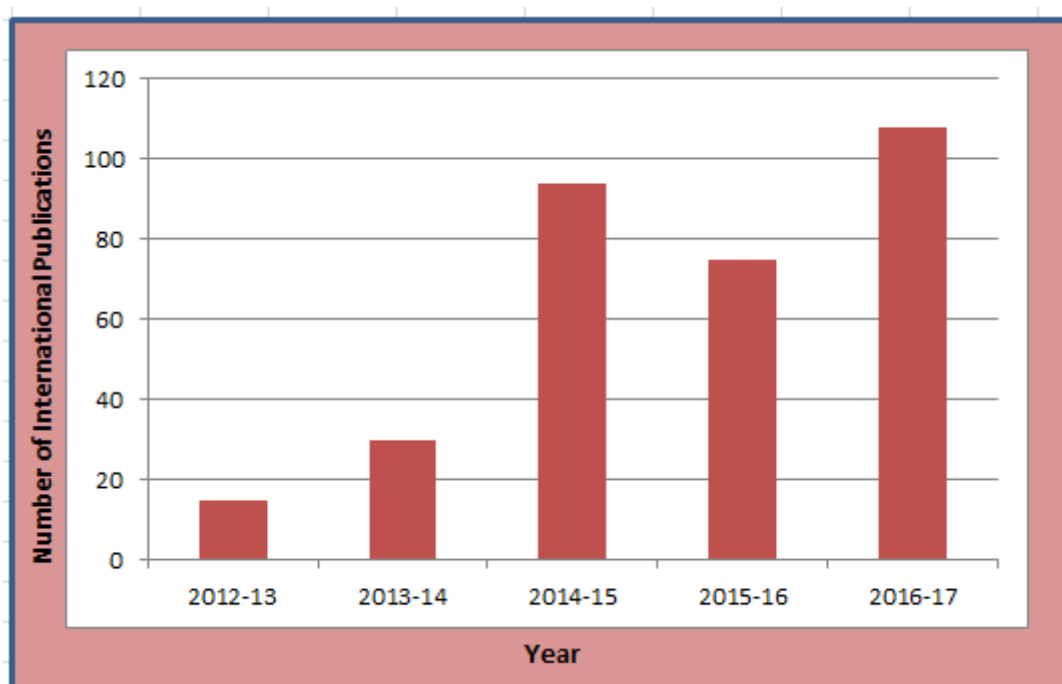


Fig.3.4.3(a): Number of National/International Publications by Faculty

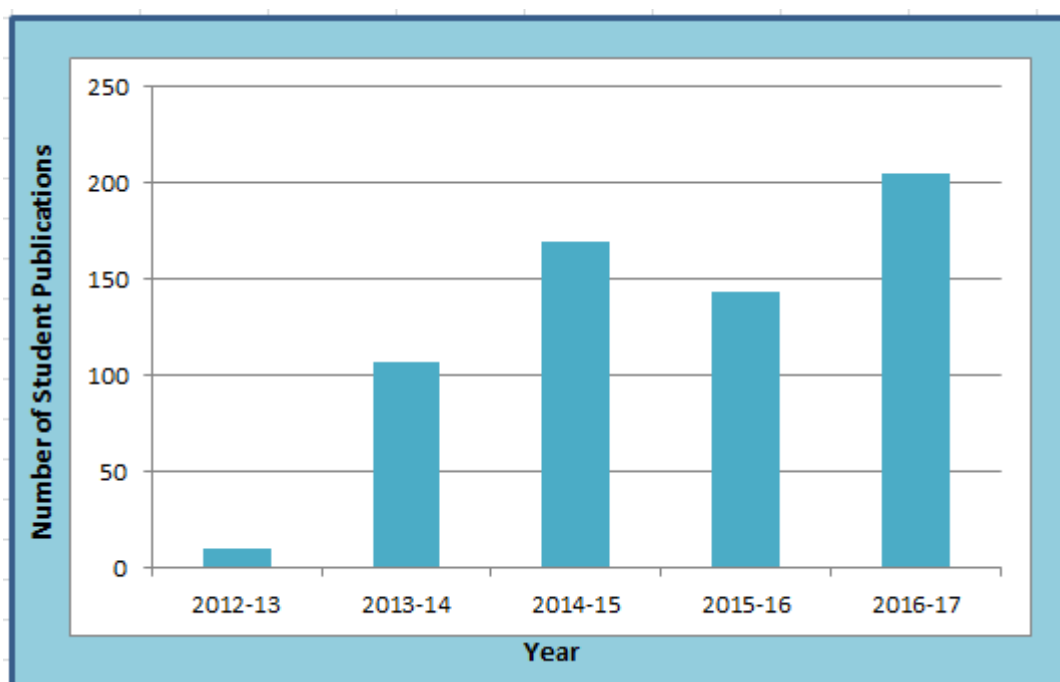


Fig.3.4.3(b): Number of National/International Publications by Students

- Publication per Faculty: **4.7**
- Number of papers published by faculty and students in journals (national / international): **377**
- Number of publications listed in National/International Database: **148**
- Books edited: **21**

3.4.4 Provide details of recognition received by the faculty

Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally is as shown in **Table.3.4.4**.

Table 3.4.4: Details of Recognition Received by the Faculty

SN	Year	Faculty Name	Award/ Recognition	Awarding Organization
1	2012-13	Dr. H. R. Kulkarni	Reviewer	International Journal of Material Science and Engineering, B-Elsevier
2	2012-13	Dr. H. R. Kulkarni	Reviewer	International Journal of Thermal Engineering
3	2012-13	Dr. H. R. Kulkarni	Reviewer	International Journal of Natural Sciences
4	2015-16	Mr. M. K. Nighot	Reviewer	National Conference, Govt College of Engg. Karad
5	2015-16	Mr. M. K. Nighot	Reviewer	cPGCON (computer Post graduate conference)
6	2015-16	Mr. M. K. Nighot	Reviewer	MJRET (Multi-disciplinary journal of research in engineering & technology)

7	2015-16	Mr. M. K. Nighot	Reviewer	IEEE international conference on information processing
8	2015-16	Mr. M. K. Nighot	Reviewer	IJCRTET (international conference on research trend in engineering & technology)
9	2015-16	Mr. D. C. Mehetre	Reviewer	National Conference, Govt College of Engg Karad
10	2015-16	Mr. D. C. Mehetre	Reviewer	cPGCON (computer Post graduate conference)
11	2015-16	Mr. D. C. Mehetre	Best paper award	International conference on Communication Networks and Signal Processing ICCNSP-2015, Bangalore
12	2014-15	Mrs. J. M. Nighot	Appreciation Letter for conducting work shop on Latex.	Jaywantrao Sawant College of Engineering, Hadapsar, Pune
13	2014-15	Mr. P. U. Chavan	Best paper award	International conference on computing communication control and automation, PCCOE-Pune.
14	2014-15	Mr. B. S. Bisht	Editorial Board member	Technical Research Organisation in India
15	2014-15	Mr. D. C. Mehetre	Editorial board member	MJRET (Multi-disciplinary journal of research in engineering & technology)
16	2014-15	Mr. V. B. Maral	Editorial board member	MJRET (Multi-disciplinary journal of research in engineering & technology)
17	2014-15	Mr. M. K. Nighot	Editorial board member	MJRET (Multi disciplinary journal of research in engineering & technology)
18	2014-15	Mr. S. M. Patil	Editorial board member	MJRET (Multi disciplinary journal of research in engineering & technology)
19	2014-15	Mr. D. C. Mehetre	Reviewer	cPGCON (Computer Post graduate conference)
20	2013-14	Mr. D. C. Mehetre	Reviewer	cPGCON (Computer Post graduate conference)
21	2013-14	Mr. M. K. Nighot	Reviewer	cPGCON (Computer Post graduate conference)
22	2012-13	Mr. D. C. Mehetre	Reviewer	cPGCON (Computer Post graduate conference)
23	2013-14	Mr. B. S. Bisht	Editorial Board member	International Association for Engineering & Management Education
24	2016-17	Prof. Mininath	Best Paper	National Conference on Signal

		Nighot, Prof. Ashok Ghatol	Award	Processing, Computer Modeling, Structural and Mechatronics NCSPCMSM- 2k17
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3.5 Consultancy

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

Institute promotes industry interaction with the help of I-I-I cell. Institute encourage visits to industries by arranging site visit. Also, institute invites the industry person to deliver the lectures to students which helps create a bond between industry and institutes shown in **Fig 3.5.1 & Table 3.5.1 (a) & (b)**.

Objectives:

- To bridge the gap between industry requirements and academics.
- To get result oriented knowledge and skills.
- To promotion of research, consultancy and testing services.
- To sign MoUs with industry to development of faculty members and students.

Strategies:

- To arrange the industrial training and industry visits.
- To facilitate live projects and guidance from industry.
- To get knowledge of new technologies.
- To arrange the site visit and industrial training.
- To create internship opportunities for students in industries.

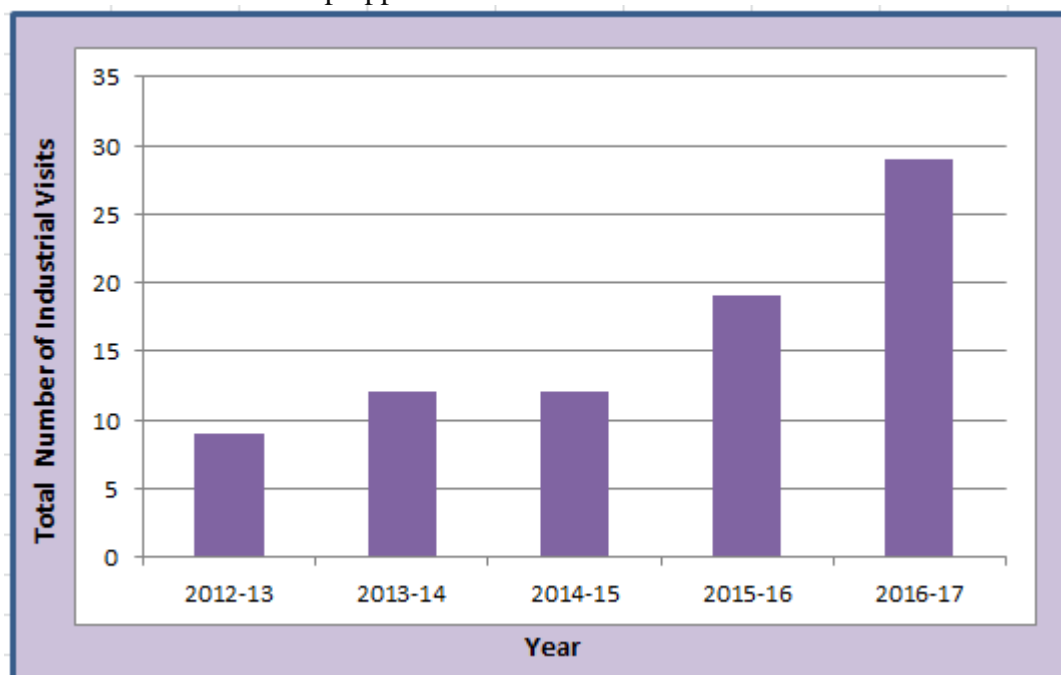


Fig.3.5.1: Industrial Visits Organized for students

I-I-I committee is formulated in the institute as shown in **Table 3.5.1(a)**

Table 3.5.1(a): Industry Institute Interaction (I-I-I) Committee details

SN	Name of Faculty	Designation
01	Dr. S. S. Khot	Chairman
02	Mr. A. S. Kabule	Secretary
03	Mr. R. K. Undegaonkar	Member
04	Mr. R. D. Rathod	Member
05	Mr. NagarajuBogiri	Member
06	Mr. MohitKumar Shakya	Member
07	Mr. A. K. Taware	Member

Various industries involved in I-I-I are as shown in **Table 3.5.1(b)**

Table 3.5.1(b): Various industries involved in I-I-I

SN	Dept	Name of Industry
1	Civil	SuranaMuthaBhansali Developers
2	Civil	Equicom Structural Consultant
3	Civil	Trimurti Developers
4	Civil	Samruddhi Enterprises
5	Computer	Zensar Technologies
6	Computer	BitWise Solution Pvt. Ltd.
7	Computer	Monster
8	Mechanical	Torocooling Systems

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

The institute has a policy to promote consultancy. The knowledge and expertise of faculty along with equipment resources are available to share with the industry. The available expertise advocated and publicized their domain area by means of expert lectures and discussions with other organizations and industry.

The policies to promote consultancy work are as follows:

- Use income generated through the consultancy for the development of students, faculty, staff, departments, and the institute.
- Encourage students, faculty, and staffs to attend various research development programmes and use their expertise for the consultancy work.
- Use available expertise for organizing workshops, seminars etc. as per their area of interest.
- Share knowledge of faculty for the consultancy and development of student and staff.

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

The institute always encourages the faculty to utilize their expertise and available facilities for consultancy services.

- The consultancy work carried out by any faculty gets appraised by the institute.
- Staff gets credit in their annual self-appraisal.
- Publication of consultancy work or other research work in the form of annual reports, letters, institute magazine.
- Seed money is also made available for research work required for consultancy services.

Following facilities are available to the faculty for consultancy work:

- Well equipped laboratories
- Furnished infrastructure
- High configured IT infrastructure with 50 Mbps speed with 4 Mbps backup line internet connectivity.
- 24 Hours UPS/ 100 KVA Generator backup
- Transportation facilities

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years. The broad areas and major consultancy services provided by the institution are as follows:

The broad areas and major consultancy services provided by the institution are as followsshown in **Table 3.5.4**:

- Conduction of FDP in various areas.
- Steam power plant: providing facilities of steam power plant to conduct practical forstudents of other institutes.
- Utilization of computer, internet and other infrastructure and administration forconduction of various online/offline examinations in government and non-government sectors and industries.

Table 3.5.4: The revenue generated

Year	Income in Rs.
2014-15	153500
2015-16	28600

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

The policies of the institution in sharing the income generated through consultancy, utilization of infrastructure and its use for institutional development are as follows:

- The income generated through consultancy is shared in the ratio (70:30) to (Staff involved: Institute) or it is utilized for the departmental development.
- The remuneration to the staff and faculty is given as per the agreement between the institute and industry.
- The necessary hardware and software can be purchased for the department from revenue generated from consultancy with prior approval of the management.

- It is compulsory to carry out official auditing at the end of every financial year and report is to be submitted to the account section of the institute for each source of consultancy revenue.
- It is compulsory to maintain a dead stock register of procurement of any hardware or software purchased through revenue generated by consultancy.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

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

Our institute has conducted following ISR activities during each academic year through NSS for development of students, which will contribute to the good citizenship, service orientation and holistic development of students.

- Blood donation camps are being organized on various occasions like Guru-purnima and birthday of our founder President, Mr. KalyanJadhav.
- Tree plantations are carried out on our campus.
- Awareness of road safety is carried out in association with the RTO, Kondhwa.
- Lecture on WOMEN EMPOWERMENT are carried out in Oct-2013 at the institute.
- The “SELF DEFENSE” workshop was conducted by the Mr. Hemant Kshirsagar for the girl students and lady faculties.
- Women’s day is celebrated every year.
- Students perform STREET PLAY on WOMEN EMPOWERMENT, SWACH BHARAT ABHIYAN and SOCIETY AWARENESS.
- Cleanliness program is conducted on the occasion of Independence day and also our students participated in MUTHA RIVER CLEANING in July-2014
- Under program RURAL DEVELOPMENT, the books were donated to Zilla Parishad School, Bopgaon, Saswad in July-2015.
- NSS unit of our college visited Mamata Foundation and donated the medical equipment and study material.
- The ROAD SAFETY campaign were carried out at Narayanpur ,Saswad in June 2016.
- NSS camps were conducted at Balsar-2014, Wajeghar-2015, Narhe-2016 with the common objectives like,
 - Cleanliness awareness
 - Healthcare awareness
 - Computer knowledge to the school children
 - Various competitions for the school children
 - Women empowerment
 - Rain water harvesting
- Our students participated in YUVA PARISHAD at Balewadi, Pune in June-2014.

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

Most of the extension activities are headed by the faculty as well as students as coordinators. Faculty co-coordinators are involved in various activities to guide and encourage students to participate in the various extension activities. Faculty in-charges used to mentor and monitor

the student activities for smooth and successful conduction of the events. Appointment of faculty co-coordinators for co-curricular and extra-curricular activities tracks the student involvement in the social activities.

- GFM is assigned after every 20 students to track their attendance, academic progress and their involvement in various social movements and activities.
- Various events are organized and coordinated by students, which help to develop their leadership quality.
- Institute support to the NSS activities is the main source of the inspiration. The student and faculty coordinators take the initiative to plan and execute the activities.
- This platform does not only develop leadership qualities but also creates awareness about their social responsibilities.
- Economically weak students are taking benefit of the “Earn and Learn Scheme”.
- Student involvement also appreciated in terms of the term work marks in the ongoing semester.

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

Overall performance and quality of the institution is always calculated in terms of satisfaction of our stakeholders (students, parents, teachers, companies, University, society etc.). In order to improve the quality and performance, the Institute solicits stakeholder perception by:

- Faculty feedbacks are taken twice in every semester for understanding and improvement of the faculty's performance.
- Each department conducts parents meet every semester. The feedbacks given during their visit are also helpful for the improvement of the institute.
- GFM assigned to students regularly communicate with the parents about their wards progress. Parents also get the in touch with the GFM for their wards academic improvement.
- Suggestion box kept in the office section for the stakeholders like students, faculties, parents, etc. They can approach with their suggestion any time.
- Employer feedback collected during their campus visit at the time of campus placement.
- Alumni feedbacks given during alumni meet are being analyzed and implemented.
- Students' performance calculated in terms of continuous assessment and results of the internal and external examinations conducted by college and University.

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

The extension and outreach programs like VAP, STP, and NSS are being conducted every year along with necessary budget. It is part of the academics, which is conducted for the benefits of students in terms of the different skills. The budgetary details of the NSS programs conducted during last three years are as mentioned in **Table 3.6.4**.

For value added inputs and outreach programs to be conducted to bridge the gap between academic and industrial requirements, every department gets the approval of necessary budget from the Principal and conducts the activities time to time. A list of such activities conducted by departments is given in the respective departmental profiles

Table 3.6.4: Budgetary Details of the NSS Activities

SN	Academic Year	Name of program	Budget(Rs.)	Total Budget(Rs.)
1	2013-2014	Regular Activities	10,000/-	44,918/-
		Special Camp	34,918/-	
2	2014-2015	Regular Activities	10,000/-	25,070/-
		Special Camp	15,070/-	
3	2015-2016	Regular Activities	10,000/-	66,005/-
		Special Camp	56,005/-	
4	2016-2017	Regular Activities	10,000/-	65,000/-
		Special Camp	55,000/-	

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?

- Students are being motivated to participate in the co-curricular and extra-curricular activities.
- The motivation can be in the form of marks or in the form of different appreciation factors.
- The students participating in the NSS & sports activities are allotted with term work for their involvement in the different events.
- The social activities carried out by the students will benefit them in their own development and will increase their social awareness.
- The NSS provides the platform for the students to implement their extension activities and social activities which will develop their leadership qualities and social interaction.
- Involvement of faculties in such events will encourage students in terms of their involvement in the events.

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

- Old-age homes and orphanages are regularly visited to understand their facilities and provide them the necessary help within our purview as an academic engineering institute.
- NSS unit of our college visited Mamata Foundation and donated the medical equipment and study material.
- The relief funds were collected to help the land slide victim in village named Malin Gaon, Tal. Ambegaon, Dist. Pune in August 2014.
- Students are undertaking some projects of social relevance and planning to conduct extension work for under-privileged and vulnerable sections of the society.
- The NSS unit also organized the Street Play on Women Empowerment and Social Awareness.
- The school children from rural area were educated with the computer knowledge during the NSS camps.
- The Student Welfare Scheme of SPPU is being successfully implemented each year and the economically poor students have taken the benefit of this program.

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.

The regular extension activities help students to know about the social issues and help them to deal with it. This activity increases the student's interaction with the society as well as different stakeholders of the institute. The objectives and the expected outcomes are as mentioned below:

Objectives:

- To develop the leadership qualities of the students.
- To prepare the students to cope up with social disasters.
- To use the technical knowledge to solve the real life problems.
- To realize the social responsibility for being good citizen of the country.
- To make the students capable of identifying the serious social issues and its solutions.

Expected Outcomes in terms of values and skills:

- Working in teams
- Management skills
- Leaderships qualities
- Social awareness & Personality development

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 Institute organizes blood donation camp for the students as well as people from outside.
- The national level events like Gravity 2k15, Gravity 2k16, NCSPCM2k16 motivates the students from other engineering colleges to participate.
- Representatives from various NGOs come to address our students.
- Regular NSS camp creating awareness on social issues, primary and basic health awareness are organized in nearby villages. Faculty coordinators and students ensure the involvement of villagers and their leaders while planning and execution of these activities.
- Computer learning programs for the school students are conducted to make them computer literate.

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.

There are many constructive relationships forged with various organizations for conducting different activities for the benefit of faculty and students. To maintain relationships with these organizations for working on various outreach and extension activities are as below:

- Zensar Training-technical and soft skills enhancement
- Persistant Training-technical and soft skills enhancement
- IBNC Championship- Conducts training program and competition in Cisco networking
- BAJA SAE India- Intercollegiate design competition run by the SAE

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.

The NSS coordinators were felicitated by the villagers for conducting camps and activities like cleanliness, healthcare awareness, and computer literacy. School headmaster felicitated NSS coordinators for conducting computer literacy program for school children.

3.7 Collaborations

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

The Institute has the following industry academia collaborations:

- Zensar Technologies Limited
- BitWise Solution Pvt. Ltd.
- Monster
- SuranaMuthaBhansali Developers
- Equicomp Structural Consultant
- Trimurti Developers
- Samruddhi Enterprises
- Torocooling Systems

The Training and Placement Cell maintains a symbiotic relationship with industries and is instrumental in signing of MoUs by the industries. The institute interacts with research laboratories and industries in their concerned areas for research activities. The management also funds in-house and innovative projects of the students and many of the final year students execute their projects in reputed industries.

The Institute organizes various interactive sessions with experts from the industry and other research organizations by:

- Deputing faculty members for exposure to industrial practices.
- In-plant training and industrial visits for students.
- Guest lectures by industry experts.
- Permissions to carry out experiments and training in reputed Institutes

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

The Institute has signed MoUs with external organizations to conduct activities like training, placement, development of training facilities for students, guest lectures, projects, participation in technical events. Details on the MoUs with industries are as given in **Table 3.7.2.**

Table 3.7.2: The Detail of MoUs Signed by Institute

SN	Name of Company/Organization	POINT of Contact	Period of MoU
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Institute Level			
01	College of Engineering Wellesely Rd, Shivajinagar, Pune-411 005	Dr. Mukul Sutone Dean Academics	5 Years 01/07/2017 to 30/06/2022
02	Zensar Technologies Pune Pune	Mr. Nilesh Limaye	4 Years 13/06/2014 to 12/06/2018
03	ADROIT Autotech Matru-Chhaya, 48, Shailesh Society Karvenagar, Pune www.adroitautotech.com	Mr. Rajendra Joshi Director	5 Years 01/07/2017 to 30/06/2022
04	Electromedics Meditek Pvt. Ltd. 401, A wing, 4 th Floor, Devagiri Apartment, Near Hotel Sawai, Sinhgad Road, Pune 411030 www.electromedics.in	Mr. Shripad Thakurdesai CEO Cell: 9822197167 Email: electromedics@gmail.com	4 Years 01/07/2017 to 30/06/2021
05	Asian Academy of Professional Training 5th floor, A-Wing, Office No. 74- 79, K.K. Market, Dhankawadi, Pune 411 043 www.asianacademy.org.in	Shri. Milind Joshi Cell: 9822086802 Email: mrjoshi.piping@yahoo.com	5 Years 01/06/2017 to 31/05/2022
06	CAD CAM GURU Solutions Pvt. Ltd. 1 st Floor, Florina Apartments, S. No 2/1/7, Erandwane, Off Karve Road, Pune 411004 www.cadcamguru.com	Mr. Prasanna Joshi Director Contact: 020 25469637, 25433529 Email: cadcamguru@vsnl.net	5 Years 06/07/2016 to 05/07/2021
E&TC Department			
01	NIMBUS Sr. No. 61, kondhwa bk, Sainagar, Pune, Maharashtra, India, 411048. www.indiamart.com/nimbustech	Mr. Dinesh Ankam Cell: 9049472161 Email: nimbustech.5@gmail.com	5 Years 01/07/2016 to 30/06/2021
02	Dolphin Labs Matoshri Gurukul Bldg, Ground floor, Ingle Vasti, Zeal college chowk, Narhe, Pune-411-41 www.dolphinlabs.net	Mr. Chittaranjan P. Mahajan Cell: 7276018051 Email: ceo@dolphinlabs.net	5 Years 01/07/2016 to 30/06/2021
03	Sunclips technologies S.No.-59/1/12,Near salve garden,Sai nagar Sukhsagar,Pune- 411048	Mr.Ganesh Honappa Cell: 9970861191 Email:	5 Years 01/07/2016 to 30/06/2021
04	Infistics Solutions Private Limited Office: E76, Bhosale Garden, Opp. Tiranga Hotel Hadapsar, Pune – 411028 www.infistics.com	Mr. Ajay Dhane Cell:9922999723 Email: info@Infistics.com	5 Years 01/07/2016 to 30/06/2021

Mechanical Department			
01	TeamSpringg Engineering Solutions 427-C, Plot No. 9 Shree Shankar Society, Gultekadi, Giridhar Bhawan, Pune - 37 www.teamspringg.com	Shri. Vikramsingh Desai CEO, TeamSpringg Engineering Solutions Cell: 98229 68857 Email: vikram@teamspringg.com	5 Years 15/06/2015 to 14/06/2020
02	Asian Academy of Professional Training 5th floor, A-Wing, Office No. 74-79, K.K. MArket, Dhankawadi, Pune 411 043 www.asianacademy.org.in	Shri. Milind Joshi Asian Academy of Professional Training Cell: 9822086802 Email: mrjoshi.piping@yahoo.com	5 Years 15/06/2015 to 14/06/2020
03	Shree Surveyors and Loss Assessor B202, Venkatesh Nisarg, Near Ashirwad Hotel, Vadgaon (BK), Pune- 411041	Shri. Suhas Pharande CEO, Shree Surveyors and Loss Assessor Cell: 8806661732 Email: suhas.pharande@yahoo.in	5 Years 19/07/2016 to 18/07/2021
04	Samruddhi Enterprises Sr. No. 50, Waghjai Nagar, Ambegaon Kh, Pune 411 046 www.samruddhienterprises.com	Shri. Sunil Biradar CEO, Samruddhi Enterprises Cell: 9764356125 Email:ceo@samruddhienterprises.com	6 Years 01/01/2016 to 31/12/2021
05	Om Exports Plot No.37, Tiny Industrial Co-op Estate Ltd., Undri-Pisoli Road, Kondhwa (Bk), Pune – 411048 www.omexport.co.in	Shri. Milind Bhangre Head Manufacturing, Om Exports Cell: 9028832216 Email: milind@omexport.co.in	5 Years 21/06/2016 to 20/06/2021
06	Jannhavi Filters Sr. No. 36/1/1, Near Lokmat Newspaper Office, Sinhgad Road, Dhayari, Pune 411 041	Shri. Shrikant Naik Director, Jannhavi Filters Cell: 9822987175 Email: shrikantnaik2771@gmail.com	5 Years 01/07/2015 to 30/06/2020
07	n-Gen Automation E-1/2 & Shop – 4/5, S. No -27/1 Ingwale Patil Complex, Bhugon Taluka Mulshi, Dist Pune 412 115 www.ngen-group.com	Shri. Nilesh Narvekar Founder & CEO, n-Gen Automation Cell: 8888878824 Email: nilesh@ngen-group.com	3 Years 08/07/2016 to 07/07/2019
08	EKSUN 3D Pvt. Ltd. Office 102, Gulmohar Center Point, Viman Nagar Chowk, Wadgaon – Sheri, Pune – 411014 www.eksun3d.com	Shri. Amol Bajare Director Cell: 9766851585 Email: eksun3d@gmail.com	1 Years 04/08/2017 to 03/08/2018
09	Sindhuraj Enterprises Plot No.2, Dadasaheb Patil Marg, 100 feet Rd, Vasantnagar (South), Sangali 416416	Shri. Nitin Mulik Director Cell: 9405659003 Email: sindhuraj.sn@gmail.com	2 Years 14/08/2017 to 13/08/2019
10	Dentflow Technologies LLP	Shri. Anurudhha Kadam	2 Years

	Gat No. 326, Sambhapur, Tal. Hatkangale, Dist Kolhapur 416122	Director Cell: 9850293456 Email: dentflow@yahoo.com	01/08/2017 to 30/06/2019
11	CAD CAM GURU Solutions Pvt. Ltd. 1 st Floor, Florina Apartments, S. No 2/1/7, Erandwane, Off Karve Road, Pune 411004 www.cadcamguru.com	Mr. Prasanna Joshi Director Contact: 020 25469637, 25433529 Email: cadcamguru@vsnl.net	5 Years 06/07/2016 to 05/07/2021
Civil Department			
01	Samruddhi Enterprises Sr. No. 50, Waghjai Nagar, Ambegaon Kh, Pune 411 046 www.samruddhienterprises.com	Shri. Sunil Biradar CEO, Samruddhi Enterprises Cell: 9764356125 Email: ceo@samruddhienterprises.com	6 Years 01/01/2016 to 31/12/2021
02	Surana Mutha Bhansali Developers 236, Patil Plaza, Near Saras Baugh, Parvati, Pune 411 009	Shri Hemant Joshi Project Manager, Surana Mutha Bhansali Developers Cell: 9325672177 Email: joshihemant92@yahoo.com	5 Years 04/07/2016 to 30/06/2021
03	Trimurti Developers Sr. No. 60, H.No. 1/2, Ambegaon Khurdh, Pune 411 046	Shri Sagar Sable Director, Trimurti Developers Cell : 9881409070 Email: trimurtidevelopers9@gmail.com	5 Years 13/07/2016 to 30/06/2021
04	EquiCom Structural Consultancy C2/11, Paya Society, Aundh, Pune 411 007	Shri Satyakam Gokhale Managing Director, EquiCom Structural Consultancy Cell: 9822822235 Email: equicomsc@gmail.com	5 Years 03/08/2016 to 30/06/2021
05	Shri Basudeo Construction Sr. No. 48, Nayak Niwas, Gokul Nagar, Katraj Kondhwa Road, Pune 411 048	Shri Narayan Nayak Director, Shri Basudeo Construction Cell: 9822958258 Email: narayannayak8888@gmail.com	4 Years 01/07/2017 to 30/06/2021
06	B. V. Construction Sr. No. 37, Kalepadal, Hadapsar, Pune 411 028	Shri Bhimarao Bhosale Director, B.V. Construction Cell: 9822335694 Email: brbhosale23@gmail.com	4 Years 26/08/2017 to 30/06/2021
Electrical Department			
01	Sachin Kadam and Associates Bhelke Nagar, Near raghunath Building, Kothrud Pune-411038 www.plctrainingpune.com	Shri. Sachin N. Kadam Cell: -9850432567 Email: plctrainingpune.com	5 Years 01/07/2016 to 30/06/2021
02	Sky Wings technologies Pvt. Ltd. 302, Impression, behind katrajdiary, Katraj, Pune-411041 www.skywingstech.com	Shri. Aashish T. Kalambe Cell: -8087308595 Email: info@skywingstech.com	5 Years 01/04/2017 to 30/04/2022

03	CAD CAM GURU Solutions Pvt. Ltd. 1 st Floor, Florina Apartments, S. No 2/1/7, Erandwane, Off Karve Road, Pune 411004 www.cadcamguru.com	Mr. Prasanna Joshi Director Contact: 020 25469637, 25433529 Email: cadcamguru@vsnl.net	5 Years 06/07/2016 to 05/07/2021
04	Asian Academy of Professional Training 5th floor, A-Wing, Office No. 74-79, K.K. MArket, Dhankawadi, Pune 411 043 www.asianacademy.org.in	Shri. Milind Joshi Cell: 9822086802 Email: mrjoshi.piping@yahoo.com	5 Years 01/06/2017 to 31/05/2022
Computer Department			
01	HashTrix Technologies Pvt. Ltd. Pune Office No.3, Saurabh Associates, Sinhgad Road, Narhe,Pune 411 041 Website- www.hashtrix.in	Mr. Akshay R. Lokhande Director Cell: 9923178123 Email: info@hashtrix.in www.hashtrix.in	5 Years 19/7/2013 to 18/7/2018
02	Elementz Infosystems, Pune Siddhi Niwas,Lane no. B-11, Handewadi road, Hadapsar, Elementz Infosystems, Hadapsar, Pune - 411028	Mr. Karan S. Kamble CEO Cell: 9730553516 Email: karan.s.kamble@gmail.com	5 Years 1/1/2016 to 30/12/2020
03	VIRTUE INFOTEK,PUNE Office No.1, 1 st Floor Parvati Apartment, near HDFC Bank,Dhankawadi,Pune-43 www.virtueinfotek.com	Ms. Kalyani Murumkar CEO Landline:020-24377740 Mobilen.:7721917721 Email: virtueinfotek@gmail.com	2 Years 17/8/2017 to 16/8/2019
04	Evisipro Solutions Pvt. Ltd. Pune E-15,Shivnagari Society, Kothrud, Pune-38	Mr.Yogesh A. Ghorpade Landline:020-25380803 Mobilen.:9146305972	1 Year 23/8/2017 to 22/8/2018
05	Apne Apps Pvt. Ltd. Pune	Mr. Sandeep Jain Landline: 020-2672-8001 info@apneapps.com	1 Year 18/8/2017 to 17/8/2018
06	Speed TechServe Pvt. Ltd. OPC,Pune 1st & 2nd Floor, Opp. To Vrundavan Hall, Vetabuva Chowk,, Narhe-katraj Road, Pune, Maharashtra 411041	Mr. Sagar Latake Mob. No. 099759 23975 E-mail- latake01@gmail.com	2 Years 8/8/2017 to 7/8/2019
07	PRAGIX TECHNOLOGIES LLP,PUNE C-Wing,C-511,Megacentre, Magarpatta,Hadapsar,Pune-46	Mr. Pavan Renuse CMO Mob.No.-7620074328, E-mail-renuse.pavan@gmail.com	5 Years 12/7/2017 to 11/7/2022
08	S V Mind Logic Systems Pvt.	Mr. Sachin Jadhav	2 Years

	Ltd. Near V.S.M Engg. College Industrial Area Nipani-591241, Satara-415002.	CONTACT NO. 07709054041 E-mail- contactus@svmindlogic.com Web : www.svmindlogic.com	16/8/2017 to 15/8/2019
09	Tech Morphs Pvt. Ltd. Pune 3rd floor, Amar Society, Mayur Colony Lane, Opposite To Durga Cafe, Kothrud, Pune 411038	Ms. Vidya Rajput Phone:+91 8329635726 Email: hr@techmorphs.com Email: vidya@techmorphs.com	2 Years 29/8/2017 to 28/8/2019

This collaboration helped in exchanging technical information and research support for the projects and to take up few consultancy & training as per the interdisciplinary industry needs. It helped in sharing of academic data through workshops, guest lectures, scientific information articles and publications.

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

Interaction with distinguished personalities from various reputed universities and industries are very useful for the creation of establishing better academic facilities for staff and students. The Institute often interacts with industry people through industrial visits, seminars/guest lectures, workshops, conferences and placement. These particular events were aimed at helping students to understand and adapt the changes between campus life and corporate life. The organized EDPs is a platform where experts from the industry were invited in order to guide the students by giving an insight of their experiences, offering them encouragement, mentoring, and invaluable suggestions to show them the way forward.

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

Institute has organized conferences, workshops, seminars, guest lecturer covering various areas of specialization in past four years, which benefitted our faculty and students in terms of enriching their knowledge to develop their interest in research. The eminent scientists/participants have contributed to our events are:

- Dr. Ramjee Prasad, Founding Chairman, Global ICT Standardization Forum for India (GISFI)
- Mr. Nigel Jefferies, Chairman, Wireless World Research Forum(WWRF)
- Dr. Raghunath K Shevgaonkar, Director Indian Institute of Technology Delhi (IITD)
- Mr. R. K. Bhatnagar, Advisor (Technology), DoT, GoI (tbi)
- Mr. Rahim Tafazolli, University of Surrey, UK
- Mr. Balamuralidhar P., TCS, India
- Dr. Wasudeo Gade, Vice Chancellor, SPPU, Pune
- Dr. N.G. Patil, G.S. Mandal's Marathwada Institute of Technology, Aurangabad, India
- Dr. Raju S. Pawade, Dr. Babasaheb Ambedkar Technological University, Department of Mechanical Engineering, Lonere, India.
- Dr. Sachin S. Naik, Dr. Babasaheb Ambedkar Technological University, Department of Mechanical Engineering, Lonere, India.

- Dr. S. A. Khan, Principal, Z. H. College of Engineering & Technology AMU, Aligarh, India.
- Dr. P. S. Dabeer, Principal, Trinity College of Engineering & Research, Pune, India.
- Dr. V. J. Kakhandki, Principal, Trinity Academy of Engineering, Pune, India.
- Dr. Padmanabhan Krishnan, Assistant Director and Professor, Centre for Excellence in Nano Composites School of Mechanical and Building Sciences VIT-University, Vellore, India.
- Dr. Ashok A. Ghatol Ex. Vice Chancellor Babasaheb Ambedkar Technological University Lonere, India.
- Dr. Vijay Bhatkareminent scientists Govt. of India.

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

Curriculum development/enrichment:

Students of institute carried out their final year project in collaboration with Zensar Technologies. Institute also carried out the student training program in collaboration with Zensar Technologies.

Internship/ On-the-job training:

Institute has strong internship program with various industries by collaboration. The collaboration helped in exchanging technical information and research support for the projects, consultancy & training as per industry needs. Student placement details are shown in **Figure 3.7.5**.

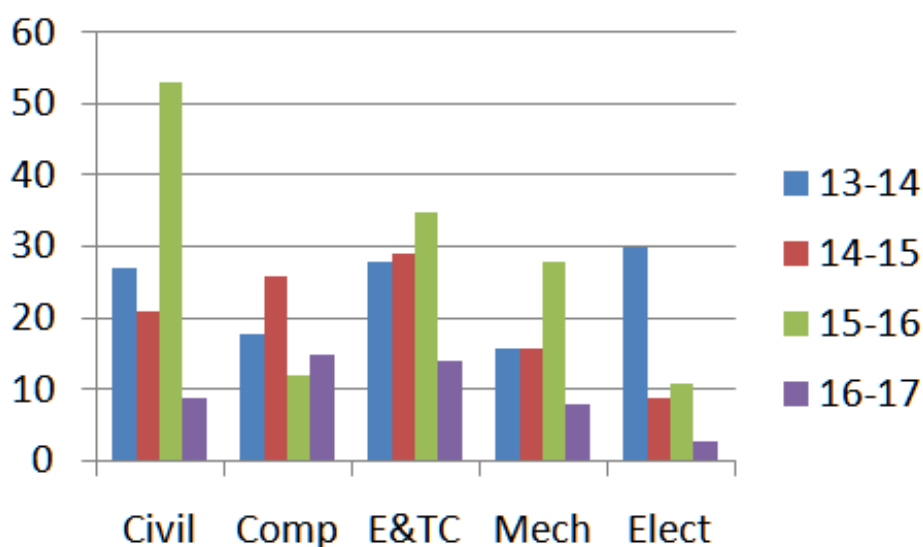


Figure 3.7.5.Placement

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

The institute has taken efforts in planning, establishing, and implementing the initiatives of the linkages/ collaborations by signing MoUs with different industry as shown in **Table 3.7.2**. The objectives of these industry-academia linkages/ collaborations are:

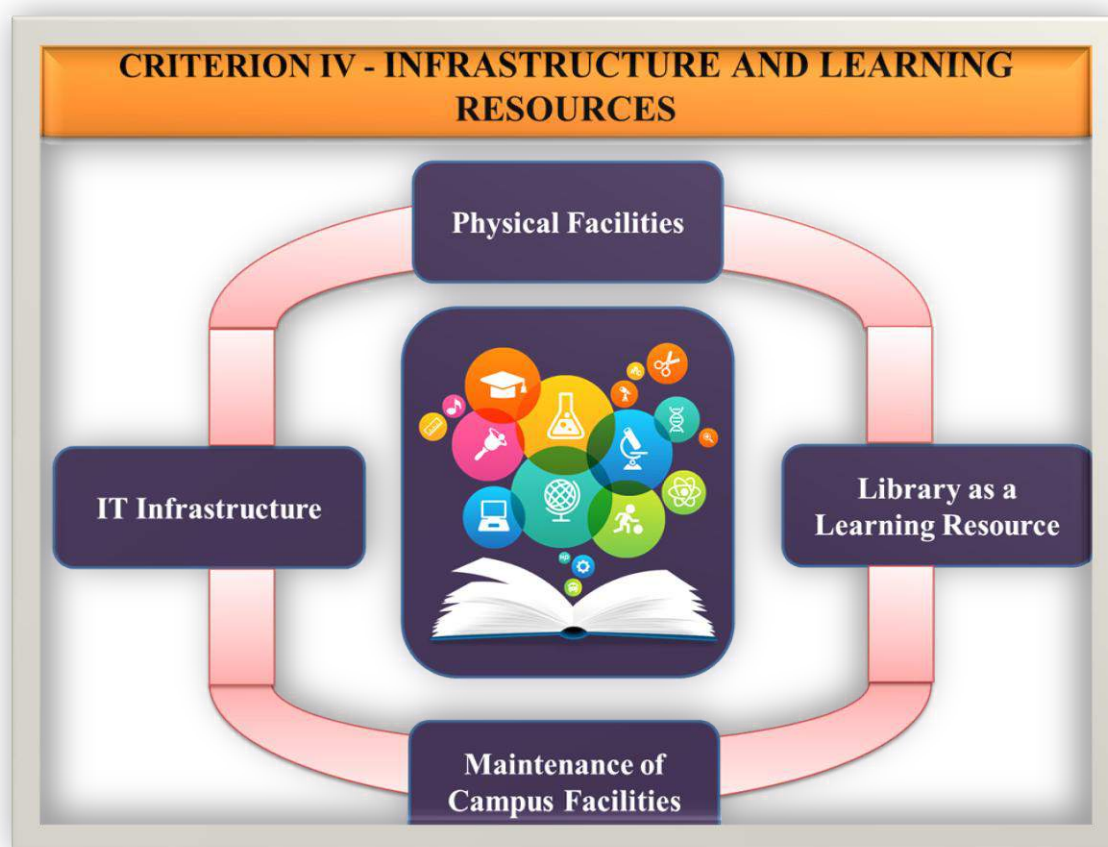
The Institute can:

- Encourage, enhance, and create avenues and environment for greater involvement of faculty and staff with industry.
- Arrange workshops and training programmes for industries and share infrastructure of the institute.
- Provide representation from industries on Board of Studies, Academic Councils, and GB.
- Provide material characterization, testing and certification facilities.
- Facilitate collaborative interdisciplinary projects and research.

The Industry can:

- Extend help and give constructive suggestions while designing the curriculum.
- Assist faculty while developing skills with specific technology to the students.
- Allow to use available sophisticated and costly equipment to the faculty and students.
- Provide financial support/equipment/material/guidance for innovative projects of students.
- Give live projects to the students and guide them in professional way.
- Participate in teaching programmes, workshops and training programmes organized by the institute to adopt modern / latest technology in industry.
- Provide facilities for hands-on training to students.

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CRITERION IV: INFRASTRUCTURE AND LEARNING

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 policy of the institution for creation and enhancement of infrastructure that facilitate effective teaching & learning process are as follows:

- To provide the infrastructure as per the norms of AICTE.
- In addition to the physical infrastructure which caters for co-curricular and extra-curricular activities, the policy is to provide educational infrastructure for students in terms of library resources, software and equipment in the laboratories prescribed in the curriculum.
- Class rooms equipped with adequate visual teaching aids and laboratory infrastructure for each department.
- The policy of the institute is to keep transparency in the infrastructural development process as per the need of departments.
- The departmental budget is discussed with the Principal and finalized to put into the institutional budget to be recommended to management committee.
- Principal takes decision of purchases within the approved budget with prior approval of the management.
- If there is an additional requirement for emergency expenditure for enhancement of infrastructure and equipment, then HoDs after discussing with the Principal request to the management for approval.

4.1.2 Detail of 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 infrastructure facilities provided by the institute are as detailed below:

- The college campus has sufficient space for all academic, administrative, co-curricular and extra-curricular activities.
- Each department of the institute is well equipped with independent classrooms, laboratories, tutorial rooms, and workshop.
- The college is having seminar hall and sufficient space for hosting all curricular and co-curricular activities.
- The institute is having boys hostel, mess facility and cafeteria.
- The campus has single point entry and it is well secured due to 24×7 electronic surveillance CCTV. The details of institute infrastructure facilities are as shown in **Table 4.1.2(a)**.

Table 4.1.2.(a):-Infrastructure Facilities

Facilities	Details	Required Number as per AICTE	Available numbers	Required Area in Sq. Mts.	Available Area in Sq. Mts.
Academic Activities (UG)	Classroom	34	46	2904	4910
	Laboratory	60	60	3960	4333
	Drawing Hall	1	3	132	490
	Seminar Hall	3	3	264	484
	Tutorial Hall	6	7	198	230
	Workshops	1	4	400	606
	Computer Center	1	1	150	150
	Library	1	1	400	569
	Total	107	125	8408	11772
Academic Activities (PG)	PG Class Rooms /Tutorial Rooms	8	8	264	264
	PG Laboratories	2	2	264	266
	Research Laboratory	2	2	264	268
	Total	12	12	792	798
Administrative Area	Principal/Director Office	1	1	30	37.32
	Board Room	1	1	20	20
	Office all inclusive	1	1	150	300
	Department Offices	5	6	100	155.
	Cabins for Head of Departments	5	5	50	75.55
	Faculty Rooms	5	12	160	397.86
	Examinations Control Office	1	1	30	30
	Placement office	1	1	30	30
	Central Stores	1	1	30	30
	Maintenance	1	1	10	11.83
	Security	1	1	10	10
	House Keeping	1	1	10	11.83
	Pantry for Staff	1	1	10	10
	Total	25	33	640	1119.39
Amenities Area	Boys Common Room	1	1	100	100
	Girls Common Room	1	1	100	100
	Cafeteria	1	1	150	150.48
	Stationery Stores & Reprography	1	1	10	10
	First Aid Cum Sick Room	1	1	10	15.11
	Toilets (Ladies &Gents)	10	20	350	565
	Total	15	25	720	940.59

Laboratories: The institute has 60 laboratories in various departments. All the equipments and machineries in the laboratories is well advance to carry out practical sessions, projects, and research work.

Seminar Hall: The institute has an auditorium in the campus for conducting various curricular, co-curricular, and extra co-curricular activities. Seminar halls are equipped with LCD projectors for addressing audience.

Specialized Facilities: -Aim of the institute is to provide specialized equipment for students to enhance their knowledge. Hence institute has made provision for learning of different advanced software. The **Table 4.1.2(b)** shows the list of specialized equipment/Software at the institute:

Table: 4.1.2.(b):-List of specialized Equipment/software

SN	Lab/Software
1	CATIA V 21
2	ANSYS 16
3	MASTERCAM X9
4	CAMLAB
5	PTC CREO 3.0
6	BOILER & TURBINE
7	STAAD PRO
8	Windows Vista Starter
9	Vista Business Upgrade SNGL Academic
10	Windows 7 Strater Edition
11	Windows 7 SNGL Upgrade OLP NL ACDMC
12	Windows 8 SNGL OLP NL ACDMC Legalition Get Genuine
13	Windows Server std ALNG LicSAPK OLV AP
14	Microsoft 10 SNGL OLP Acamioc Legalization GetGenuine
15	Orell Digital Language Lab
16	MICRO WIND
17	CAD FEKO
18	PROTEUS
19	MATLAB SIMULINK
20	PLC
21	SCADA

Research Facilities: Institute is promoting towards research and for that purpose it has provided various research labs in different departments. Laboratories are well equipped with internet facility and Wi-Fi facility. Students and staff can also make use of library and digital library.

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

- The institute encourages and provides facilities for students to participate in various extra -curricular activities in order to build team spirit and leadership qualities.

- Institute has provided facilities for outdoor games like cricket, football, volleyball and indoor game facilities like table tennis, chess, Carom.
- The institute has a large playground of area 22,500 sq.m Every year institute organizes Kalyan Karandak which is inter collegiate cricket competition.
- Institute also organizes various inter college events in sports

The details of outdoor games played in college are shown in **Table 4.1.2(c)**.

Table 4.1.2(c) Details of outdoor games played in college

SN	Details	Annual Activities
1	Cricket	Inter college, Inter Department, Kalyan Karandak
2	Football	Inter college Event
3	Volley ball	College level
4	Kho-Kho	College level
5	Handball	College level
6	Kabaddi	College Level, Annual Sports
7	Basketball	College Level, Inter college level

Details of Indoor Games/ Facilities:

Indoor game facilities like table tennis, chess are provided by the institute. The details of which are given **Table 4.1.2 (d)**.

Table 4.1.2.(d) Details of indoor games played in college campus

SN	Details	Event
1	Table Tennis	Inter college level
2	Chess	Inter college level
3	Carom	Inter college level
4	Badminton	Inter college level

NSS: As per the guidelines of the SPPU, the institute has formed a NSS unit of students and staff. The NSS unit in the institute provides various socially relevant services such as:

- Providing guidance to students studying in the rural areas.
- Creating awareness about the natural disasters Tsunami, earthquakes etc.
- Participation in Gram Swachchata Abhiyan and Blood Donation Camps.
- Creating awareness of social responsibilities among students.
- Provide a platform to showcase their talents through extra-curricular activities.

Every year NSS team organizes different events such as Tree Plantation, Teachers Day Celebration, Blood Donation, Ground Cleaning, Street Play on Women's Empowerment, Traffic rules guidance program etc.

Cultural Activities: In the institute separate committee has been formed for cultural activities. Institute organizes a grand cultural event: KJ Youth Festival. This provides a platform to showcase the extra-curricular talents and organization skills of the students. It comprises events in the form of competitions, workshops and stage performances such as, Mr & Miss KJ, singing, dance, street play, treasure hunt, art gallery, fashion show to name a few. Also, to broaden the horizons of the students, they are encouraged to participate in several inter-collegiate events such as *Firodiya karandak*, *Gadakari Karandak*, *Purushottam*

Karandak, and the Gokhale Cup. Under the banner of TCT, students are encouraged to share their ideas, through a wall magazines and debate competitions on social and cultural issues.

Yoga: Yoga and meditation sessions are conducted for the students and staff in the premises through NSS. In Auditorium, facility space is available for Yoga activity.

Health and Hygiene:- Institute is also aimed at providing clean and hygienic atmosphere for students as well as staff. Institute has beautiful campus of 110 Acres Area with full greenery. Medical checkup is made for first year students. Institute has also made tie up with hospital. In case of medical emergency special vehicle is available for transport. For refreshment cafeterias are provided in college campus where better quality hygienic food is available. Drinking water facility is available at each floor having water filters with RO facility.

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).

Infrastructural development has been carried out and updated as per the guidelines given by AICTE and approved by the management. Considering the natural growth of various programmers and additional student intake the management has developed the necessary infrastructure. The investments by the institute in the last four years for enhancing various infrastructure facilities are shown in the **Table 4.1.3**

Table 4.1.3:- Infrastructure investment for last four years (In Lakhs)

Items	2012-13		2013-14		2014-15		2015-16		2016-17	
	Alloca ted Budge t	Expe nses	Alloca ted Budge t	Expe nses	Alloca ted Budge t	Expe nses	Alloca ted Budge t	Expe nses	Alloca ted Budge t	Expe nses
Furnit ure	-----	14.0 6	69.91	6.84	94.84	9.9	52.3	8.16	29.53	1.31
Lab Equip ment& Instru ments	-----	87.0 2	125.69	77.11	32.13	8.01	35.56	2.44	67.35	0.63
Comp uters, Hardw are's and softwa res	-----	75.1 9	92.04	18.23	130.74	4.13	155.11	47.8	105.66	4.47
Librar y Books	-----	7.25	30.2	5.3	25.67	5.7	35.05	8.6	27.01	3.79
Total		183. 52	317.84	107.4 8	283.38	27.7 4	278.02	67	196.48	10.2

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

The institute ensures the availability of infrastructure facilities for students with physical disabilities in following ways:

- The ramp is provided for the physically disabled students.
- Wheel chairs are made available in the institute in case of an emergency from admin office area to class rooms.
- In case of students who are physically disabled, efforts are made to hold their classes and examinations in classrooms at ground floor.

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

The institute has made provision of residence for the students (boys) and staff. The campus has various supporting residential facilities as described below:

Hostel facilities: The boy's hostel facility is available in the campus. The hostel accommodation is offered to the students on a first come first serve basis. A mess facility is available for boys and girls in the campus. At present three canteens are available. The hostel details are shown in **Table 4.1.5**.

Table 4.1.5:-Details of Hostel

SN	Description	Boys Hostel
1	Available Rooms	40 /floor
2	No of students per room	3
3	Distance from college	0.5 km
4	Transport facility	Yes
5	Allotment scheme	first come first
6	Entertainment facility	Yes
7	Provision for Sports	Yes
8	Mess	3 Mess
9	Cafeteria	canteen
10	RO/UV Drinking water	Yes

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?

Institute is also aimed at providing clean and hygienic atmosphere for students as well as staff. Institute has beautiful lush green campus of 110 acres. Medical checkup is made for first year students. Institute has also made tie up with hospital. In case of medical emergency special vehicle is available for transport. Drinking water facility is available at each floor having water filters with RO facility.

4.1.7 Give details of the Common Facilities available on the campus–spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

Women's Grievance Cell:

This cell is responsible for resolving any issues and problems such as sexual discrimination or harassment faced by the women staff and girl students in the institute. Separate committee is formed for this cell having one chairman, one secretary and four ladies members. Principal of the institute is appointed as chairman and one lady staff is appointed as secretary. (Room No: A-025 with area 30m²).

Women's Development cell:

Objectives of this cell are to create social awareness among ladies student and staffs about the problems of women and in particular regarding gender discrimination. To create awareness about woman welfare laws, to conduct seminar, workshops on woman development. Encourage woman and develop self confidence among them. A separate committee is formed for this cell which consists of chairman, one secretary and four ladies members. Principal of the institute is appointed as chairman and one lady staff is appointed as secretary. (Room No: A-025 with area 30m²)

Carrier Guidance Cell:

Purpose of this cell is to do counseling to students on higher studies, to explore different carrier option, promoting for appearing various competitive examination. Various events are organized by this cell such as arranging guest lectures by Class-I officers, arranging the alumni Meet, Preparation for public service commission exams etc. Special room is provided for this cell and one permanent staff is appointed. (Room No: A 205 with area 33 m²)

Training & Placement Cell (TPC):

TPC consists of a institute placement coordinator and the faculty members from each department. Various placement activities like pre-placement trainings, mock group discussion and personal interview sessions, soft skills training etc. are carried out to enhance the employability of the students. This cell does activities like conducting aptitude test for students, conducting aptitude training program, conduct group discussion and technical interview (Room No: D101 with area 32 m²).

Entrepreneurship Development Cell (EDC):

Purpose of this cell is to provide guidance on Entrepreneurship and to motivate for Entrepreneurship. Various events are organized by institute for creating Entrepreneurship awareness. (Room No: A205 with area 33 m²)

Recreational spaces for staff and students:

Students and staff can play outdoor games on college play grounds. For playing indoor games facility is provided at auditorium where they can play carrom, badminton, chess board, and television sets for entertainment are available in the office area at ground floor as well as in hostel. Cafeteria, juice center, coffee corner are available in the campus.

Canteen and Mess:

Institute has sufficient canteens in college premises where healthy and hygienic food is served. Mess facility is also available at canteen.

Safe Drinking water Facility:

Drinking water facility is available at each floor having water filters with RO facility.

Health Center:

Institute has also made tie up with hospital. In case of medical emergency special vehicle is available for transport.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, there is Advisory committee comprising of the Heads of all Departments, Principal and Librarian shown in **Table 4.2.1**. The committee is actively involved in library schemes that are intended to make the library user friendly. Library committee meets at end of each semester.

Table 4.2.1 Advisory committee

SN	Name	Designation
1	Dr. S. S. Khot	Chairman
2	Mr. P.U. Chavan	Member (E&TC)
3	Mr. P. E. Ingle	Member (MECH)
4	Mr. S. K. Patil	Member (CIVIL)
5	Mr. D. C. Mehetre	Member (COMP)
6	Mr. Lalit Kumar	Member (ELECT)
7	Dr. H. R. Kulkarni	Member (FE)
8	Mrs. V. H. Patil	Secretary (Librarian)

Following initiatives are implemented by Library committee to render the library user friendly-

- The committee provides support to librarian in taking important decisions having implications for the users.
- It identifies budget and requirements of periodicals, journals, textbooks, reference books etc.
- Library provides previous University question papers (SPPU).
- Practice of exhibiting reference books to increase usage of reference book.
- NPTEL video lectures are made available to faculty & students.
- The books for general reading like novels, magazines, spiritual books, autobiographies etc. are also available.
- Newspaper and journals stand in the library to provide an access to research, news and other information to the students/readers.
- The library has been enriched with recent reference books.

4.2.2 Provide details of the following

- **Total area of the library (in Sq. Mts.):** 569.45 sq.mts.
- **Total seating capacity:** 120 +
- **Working hours:**
 - ✓ **Library/ Reading Hall Timings:** 9:00 am to 6:00 pm.
 - ✓ **During Examination Reading Hall Timing:** 8:00 am to 8:00 pm.

Sr.	Details	Comments (if any)
01	Individual reading carrels	Study table for group of 06 students is available in library reading room
02	Lounge area for browsing and relaxed reading	Yes (adequate)
03	IT zone for accessing e-resources	Yes (10 dedicated computers)

Layout of the library: The library layout includes book issue counter, book racks, reference section, e-resource section and seating arrangements as shown in **Figure 4.2.2:**

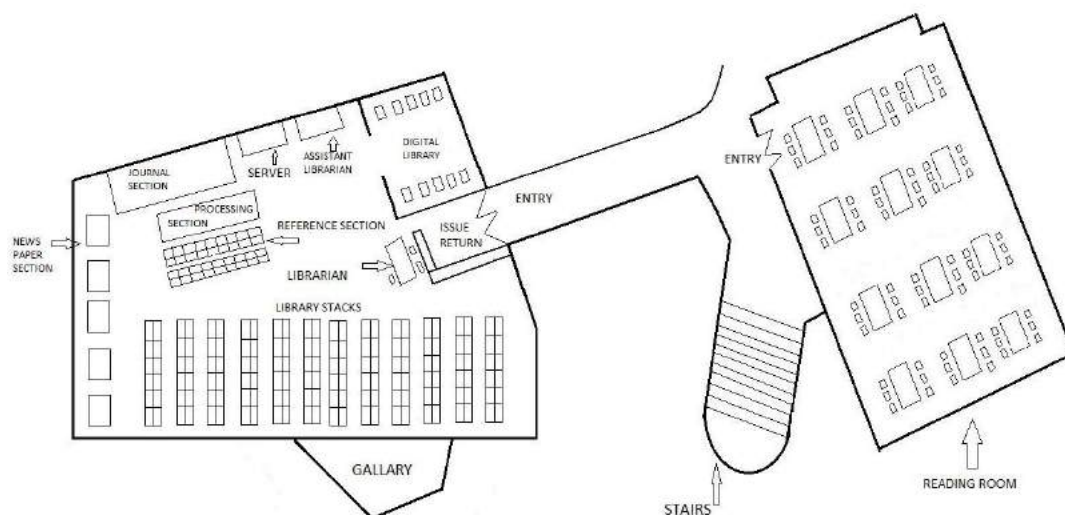


Figure: 4.2.2. Library layout

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years

Library purchase policy: Suggestions are taken from concern faculty as well as students with reference to the University syllabus. The library committee finalizes the purchasing of books by considering AICTE norms. Every year the purchase is carried out according to academic growth.

Amount spent: The details of amount spent on procuring new books, journals and e-resources during the last four years are shown in **Table 4.2.3.**

Table 4.2.3 Amount Spent on Procuring Library Resources (In Rs. Lakhs)

Library Holding	2012-13		2013-14		2014-15		2015-16		2016-17	
	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Text Books	1577	5.60	1112	4.78	1709	7.50	1245	4.63	974	4.47
Reference Books	189	1.58	94	0.50	181	1.09	190	1.08	0.00	00
Total	1766	7.18	1206	5.28	1890	8.59	1435	5.70	974	4.47
Journals/Periodicals	98	2.53	41	1.13	0	0.00	0	0.00	110	3.44
e-resources	629	14.00	420	8.22	275	5.62	275	4.95	275	6.72

Library Utilization: Institutional library is enriched with ample collection of reference books and e-resources. A separate reading hall and digital library is available for students and faculty. The library is facilitated with SLIM 21 software and barcode system for smooth accession of books. Every student has 1 library card for issuing 2 books (UG Course) & 3 books (PG Course). Faculty members can avail the library facility and access maximum 5 books per semester.

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

- **OPAC:** A digitalize search engine is established in the library for ease of searching the books. System facilitates the search on the basis of title, author, keywords, publisher etc. This helps to ensure the availability of the book in library.
- **Electronic Resource Management package for e-journals:** Science Direct: 275 e-journals (Current & back dated issues) are available online.
- **Federated searching tools to search articles in multiple databases:** Direct Access to online resources through static IP.
- **Library Website:** KJCOEMR college website provides library details which are available at <http://www.kjei.edu.in/kjcoemr/library/library.html>.
- **Library automation:** SLIM 21 library software, Web OPAC to perform all library function, Barcode facility, computer and printer are used for library functions.
- **Total number of computers for public access:** 10 Computers (09 for Digital Library, 1 for OPAC).
- **Total numbers of printers for public access :** 1
- **Internet band width/ speed:** 50Mbps.

4.2.5 Provide details on the following items:

Average number of walk-ins	: 112 per day
Average number of books issued/returned	: 36
Ratio of library books to students enrolled	: 9:1
Average number of books added during last three year	: 1510

Average number of login to OPAC	: 45
Average number of login to e-resources	: 142 per day
Average number of e-resources downloaded/printed	: 13 per day

4.2.6 Give details of the specialized services provided by the library

Reference: Guidance in use of all Library Resources and Services.

Reprography: Library provides reprography service for photocopying Journal articles, reference material and other reading material for benefit of users.

Information deployment and notification (Information Deployment and Notification): Information about newly received books, print journals, magazines at library is intimated through e-mail to the concerned department and display on notice board.

Download: User can download information.

Printing: 01 printer is available in library & 01 photocopy machine.

Reading list/ Bibliography compilation: Available (OPAC).

In-house/remote access to e-resources: Digital library is available for online journal access and internet searching. E-journals are accessible from any college laboratory PC as subscription is IP based.

User Orientation and awareness: For newly admitted students and staff, awareness programs are conducted.

Assistance in searching Databases: Assistance is provided by library staff to faculty and / or student to search books.

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

The support system provided by the library to the faculty and students is as follows;

- Assistance to search for relevant information on OPAC
- Helps in locating the books on the racks
- SPPU question papers and syllabus
- Scanning and photocopying
- Separate sections for books on career orientations, competitive exams etc

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

Physically challenged persons can authorize other students for library related activities. The Institute provides wheel chairs, for the use of visually/physically challenged students.

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

Feedback is collected annually, based on the recommendations of the students and faculty members who visit the library. The library has a suggestion box through which the feedback is collected from students and faculties in the form of suggestions and recommendations.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the institution.

The institute has provided the necessary computing facilities with computer-to-student ratio of 6:1 for UG students and 2:1 for PG students. The details of other supporting hardware facilities are shown in **Table 4.3.1 (a) & (b)**.

Table.4.3.1 (a): List of Hardware Available

SN	Description	Quantity
1	Server	02
2	Desktop computers	665
3	Laptops	12
4	Laser Printers	57
5	Dot matrix Printers	10
6	Plotters	01
7	LCD/ LED Projectors	48
8	Scanners	08
9	OHP	01
10	Pull down screen	22
11	PA System	02
12	UPS	05
13	Fax machine	01
14	Computer-student ratio	1:6
15	Stand-alone facility	YES
16	LAN facility	YES
17	Wi-Fi facility	YES
18	Licensed software	23
19	Number of nodes/computers with Internet facility	ALL

Table.4.3.1 (b): List of software (License Copies):

SN	Software Name	Number of computers with software installed
Computer		
1	Windows Vista Starter	70
2	Vista Business Upgrade SNGL Academic	70
3	Windows 7 Strater Edition	95
4	Windows 7 SNGL Upgrade OLP NL ACDMC	95
5	Windows 8 SNGL OLP NL ACDMC Legalition Get Genuine	100
6	Windows Server std ALNG LicSAPK OLV AP	1
7	Microsoft 10 SNGL OLP Acamioc Legalization GetGenuine	45
8	Orell Digital Language Lab	25
E&TC		
9	Antenna Software CADFEKO	5

10	Microwind 3.5 Nade lock Network License	10
11	Simullation Software with 80C52 Proteus 10 User	10
12	MATLAB	25
Civil		
13	Structural STADD Pro Bundle (3 YEARS LICENCE)	5
Mechanical		
14	Catia V5 R21 (Discover Education Bundle) (30 User)	30
15	Upgradation ANSYS Academic Teaching Mechanical+CFD (ANSYS 16)	1
16	Mastercam X6 30(10Mill+10Turning+10 Design Modules) 1 Seat Robot Master 10 Milling & 10 Turning seats of CIMCO Edit. (Upgrade to X9)	1
17	CAMLAB Software, Module of simulation software (Installment Pending)	20
18	PTC Creo 3.0	1
Electrical		
19	WonderwareIntouch 64Tags SCADA software	1
20	Rs-logix500 PLC Programming Software	1

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

The detail of computer and internet facility made available to the faculty and students on the campus by the institute are as follows:

- Internet facility of the institute consists of 50 Mbps lease line from Aircel with 1:1 ratio and is available.
- The internet connectivity has been extended to all the departments including Library.
- The institute has digital library for internet access and Wi-Fi facility in the campus.

The details of internet facility provided by the institute are shown in **Table 4.3.2**.

Table.4.3.2 List of Configuration Details of the PC's

SN	Description	Quantity
1	Numbers of servers	02
2	Numbers of PC	665
3	Name of internet provider	Aircel
4	Bandwidth	50Mbps
5	Availability- e.g Lab, Departments, faculty room	All
6	Email facility to faculty – mail.kjsedu.in	Yes
7	Security to internet users- Firewall.	Yes

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

The various plans and strategies of the institute for deploying and upgrading the IT infrastructure and associated facilities are as follows:

- As advancement in the technology the institute upgrades the computer systems of the different laboratories as per the curriculum of the SPPU.
- LCD/LED projectors are equipped with the classrooms.
- The institute provides Wi-Fi facility.
- Depending on student's strength and advancement in the technology institute always strive for better IT infrastructure and associated facilities such as internet facility, printers, scanner, reprographic machines, and required number of software.
- Institute is planning to develop student portals for various technical and co-curricular activities (e.g. participation in technical events, conferences, quiz, contests, etc.)
- Institute plans to develop android application through which students can get general awareness of real online exam scenario.

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

The institute makes the provision in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories available in the various departments. The details are shown in *Table 4.3.4*.

Table 4.3.4 Annual Budget for Lab Equipments (In Lakhs)

Items	2012 – 2013	2013 – 2014	2014 – 2015	2015 – 2016	2016 – 2017
Component & Lab. Material	214.60	125.69	32.13	35.56	67.35
Computer Hardware & Software	112.14	92.04	170.74	115.11	105.66

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 facilitates extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by staff and students in following ways:

- The institute provides NPTEL video lectures material.
- Presentation modules based on University syllabus are provided to the students.
- Multiple choice question banks are provided to the students for getting command over various online examinations.
- Faculty members make use of PPTs/NPTEL videos/spoken tutorials for effective session delivery.
- Class rooms are well equipped with LCD/LED projectors. Staff rooms have computing facility with internet connections.
- Students can avail the facilities of photocopying, printing and CD writing in the institute premises.

- LCD/LED projectors are also available in computer laboratories for on-line demonstrations.
- Students can avail data through FTP and Google group.

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 center of teaching-learning process and render the role of a facilitator for the teacher.

The various learning activities and technologies deployed by the institution to place the students at the center of teaching-learning process and render the role of a facilitator for the teacher are as follows:

Curricular Activities:

- Use of PPTs/ NPTEL videos/spoken tutorials for effective learning.
- Soft Copies of Learning resources including lesson plans, course notes, question papers, question banks are made available to all the students and assignments based on software related work.
- Mock on-line tests are conducted to prepare the students for SPPU examinations by using Myeximo software.
- Course material prepared by the faculty during FDP is made available to the students in softcopies.
- Examination portals like GATE tutor are made available for self-learning. .

Co-Curricular Activities:

- An extensive program designed and implemented to enhance the employability skills like soft skills, communication skills, fundamental concepts and technologies beyond curriculum.
- The benchmarking test widely recognized by major MNCs like Persistent, Zensar, Cocube is conducted twice in a semester for the students to augment their employability.
- A grand annual National Level Students' Symposium Spiritua and GRAVITY is a great bonanza for students to exhibit and compete on the national platform in technical events like projects, paper presentations, seminars, fun zone etc

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?

The institute avails of the national knowledge network connectivity directly through the facility provided by NPTEL videos and NPTEL local Chapter network connectivity and spoken tutorials.

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)

In the beginning of academic year, the review of requirement regarding infrastructure, furniture, laboratory equipment, computers, gardens, etc is taken. Once demand is collected, the budget is prepared & sufficient funds are allocated to fulfill the requirement and maintenance if any. The details of expenses during last four years are given in **Table 4.4.1**

Table 4.4.1 Institute Maintenance Budget (In Lakhs)

Items	2012 – 2013	2013 – 2014	2014 – 2015	2015 – 2016	2016 – 2017
Infrastructure & Furniture	50	50	50	50	25
Laboratory equipment	5	10.05	15	10	5.30
Maintenance of Garden	3	2	2	2	-
Total	58	62.05	67	62	30.30

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

The maintenance work is allotted to various departments according to its nature. If maintenance work arises then respective department/lab in-charge prepares application & takes approval from respective HoD & Principal, then requirement list forwarded to central store. The institute has appointed staff for specific maintenance work. If requirement is not fulfilled by central store then external agency people are outsourced.

The specification of maintenance work is as follows:-

- The institute has appointed full time housekeeping staff for maintenance & cleaning of washrooms, corridors, premises etc.
- The minor maintenance of wooden & metal furniture is looked after by workshop department. In campus, unit of trained carpenters for repair of major parts & fixtures.
- There is a campus team of electricians to look after maintenance of electrical repairs, power supplies, generators etc.
- The maintenance of electronic appliances like water coolers, air conditioners is taken care by external agency. The yearly or half yearly maintenance is also done.
- The civil maintenance is looked after by campus team.
- The maintenance of equipment in laboratories is looked after by respective lab assistants with help of lab in-charge. In the beginning of every semester it is ensured whether all instruments are in working condition.
- The maintenance of computer & related hardware, software's is taken care by technical assistant team of computer department. Again major issues are sorted out by outsourcing external agency.
- Garden with good plantation has been initiated to maintain eco-friendly environment. There are lots of green trees in campus, giving lot of shade & pleasant appearance.

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

The institute takes up calibration and other precision measures for the equipment/instruments regularly by following ways;

- The working of equipment in laboratory is checked in beginning of every semester as per the user manual provided.
- The laboratory equipment are maintained and calibrated through budget allotted for the same to the respective department as per standard procedure recommended by the vendor/supplier.
- The calibration of selective equipment is undertaken periodically by the respective departments through lab in-charges. In case of any major issue the vendor/external agency looks after the maintenance.
- The Institute has a team of qualified & experienced technical staff for maintaining computers and networking facilities. Some of the members are identified for the same and it is ensured that they are available at short notice.

4.4.4 What are the major steps taken for the location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water, etc)?

The following are major steps taken for the location, upkeep and maintenance of sensitive equipments:

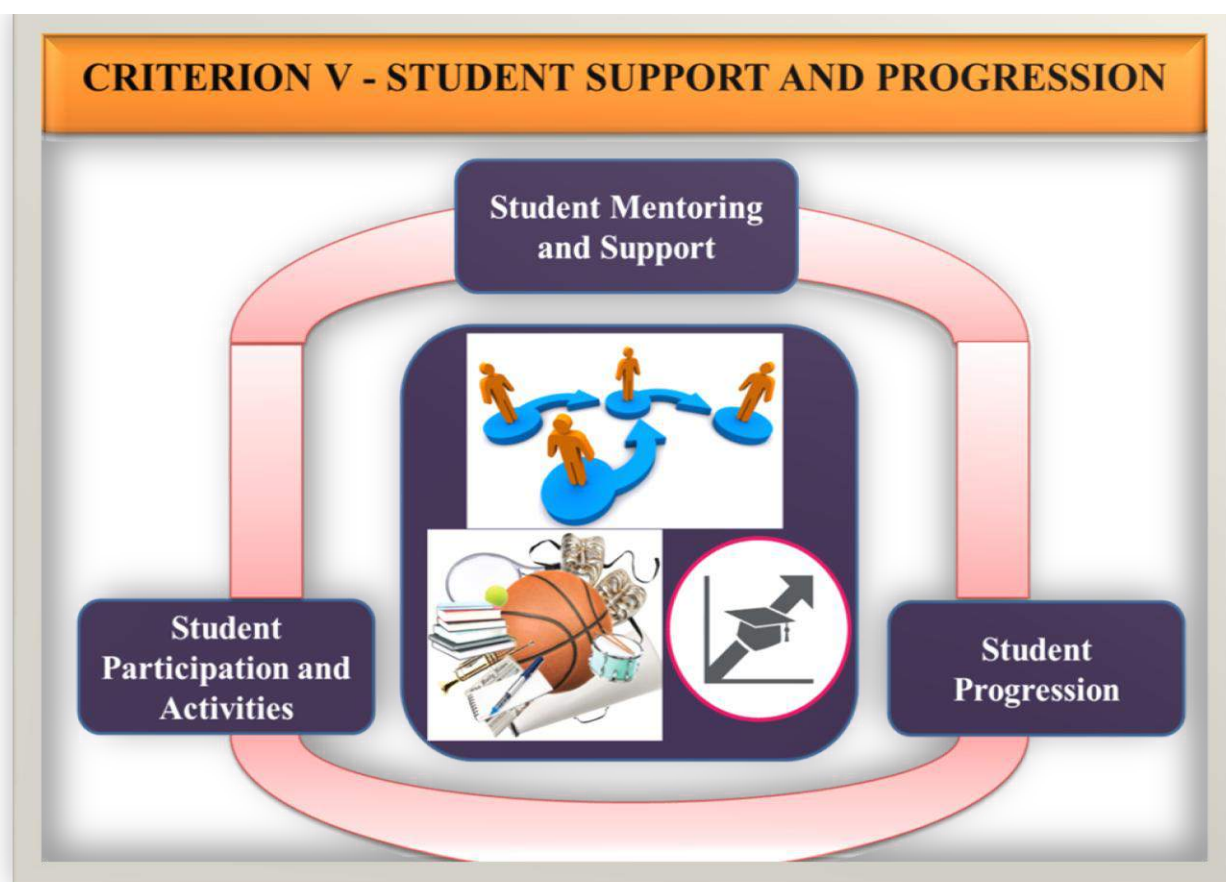
- Operational guidance and working of every machine or equipment is displayed on the laboratory notice boards for safe operation.
- With the help of generators, UPS a stable power supply is given all over the campus without disturbing the regular system.
- As per requirement from laboratories, single phase & 3 phase connections are provided
- To control voltage fluctuations stabilizers are installed.
- The senior electrician and the supporting staffs are in-charge for the maintenance and upkeep of electrical equipment.
- To avoid any electrical accidents, electric and electronic devices are maintained for the safer environment.
- The constant water supply to campus is insured through enough storage capacity and provisions like rain water harvesting.

4.4.5 Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include

The institution has taken efforts to provide certain campus facilities. Some of them are listed below:

- CCTV cameras are installed at relevant spaces for security purpose.
- ATM facility is available in campus.
- Photocopy center available in campus.
- Fire extinguishers are installed at prominent locations in the campus and are checked periodically.
- In campus security officers to maintain discipline.
- Spacious canteen to provide quality & variety of food items.

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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 the information brochure annually. This brochure is given along with the application form to every student who takes admission to the institute.

Information provided in the prospectus:

- Brief history of institute along with Vision and Mission.
- Intake capacity of UG and PG Programmes.
- Information regarding infrastructure, laboratory facilities, library, IT infrastructure, internet facility etc.
- Information about department wise staff and student achievements.
- Information regarding Training and Placements, placement history, and list of recruiters.
- Details of MoU with various organizations.
- Hostel, mess and other amenities available in the campus.
- Various co-curricular and extra-curricular activities conducted in the institution.
- Details of Educational loan scheme.
- Details of different technical and non-technical events conducted in the campus.
- The institute website.

Commitment and accountability:

- After admission, induction program for the students and their parent is conducted to showcase the institute information.
- All the information of the institute along with academic calendar to be executed for the first year, syllabus structure and examination scheme are elaborated.
- Introduction of faculty, anti-raging drive, rules, & regulations, contact information of anti-raging cell, women's grievance cell, alumni activities, T&P cell, co-curricular and extra-curricular activities conducted are explained to all the parents & students.
- Campus visits, departmental visits, and presentations are also given to highlight the infrastructure, laboratory facilities, library, IT infrastructure, internet facility of every department.

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

The information of various scholarships/free-ships given to the students during the last four years are as follows.

- Financial assistance in the form of scholarship is awarded every year to students under different heads as approved by the management.

- KJEI trust offers scholarship for meritorious and needy students. Details of students receiving financial assistance from the institute in the last four years are given in **Table 5.1.2**.

Table: 5.1.2 Summary of number of Students Received Financial Assistance from KJEI trust

SN	Academic Year	No. of Students	Amount Disbursed
1	2012-2013	09	Rs.2,25,000/-
2	2013-2014	63	Rs.10,11,984/-
3	2014-2015	554	Rs.1,33,80,688/-
4	2015-2016	478	Rs.1,07,98,165.5/-
5	2016-2017	61	Rs. 26,60,260/-

- However, scholarships/freeships are given by state GoM on the basis of parental annual income and based on reservation policies of the government and GATE scholarships.
- Few NGOs offer scholarships/freeships to the students. (Lila Poonawalla Foundation, Persistent Foundation, Cybage Khushaboo Charitable Trust).
- The information regarding the scholarships is notified to the students through the HoD. Applications from the deserving students are given to SWD.
- The office superintendent and the student section of the institute ensure that all deserving students file their applications to SWD or NGOs and Scholarships/freeships amounts are disbursed to students.

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

Various financial assistance schemes available to the students from GoM and Central government are as follows:

- Scholarships/freeships given by state GoM on the basis of parental annual income and reservation policies.
- GATE scholarships provided by AICTE to PG engineering students.
- TFW scheme of GoM.
- Central Government J&K quota admission scheme.
- Earn and learn scheme of SPPU.

Percentage of students received financial assistance in last four years is as shown in **Table 5.1.3**.

Table 5.1.3: Summary Percentage of Students Received Financial Assistance

Year	UG			PG		
	Total Students Admitted	Financially Assisted Students	% of Financially Assisted Students	Total Students Admitted	Financially Assisted Students	% of Financially Assisted Students
2012-13	1265	720	56.91	24	0	0
2013-14	1632	868	53.18	71	3	4.22
2014-15	1930	1213	63.00	142	3	2.11
2015-16	2234	1503	67.27	148	4	2.70
2016-17	1865	1280	69	16	38	06

5.1.4 What are the specific support services/facilities available for?**i) Students from SC/ST, OBC and economically weaker sections:**

The students who belong to SC/ST, OBC and the economic weaker sections are identified during the process of admission. These students are provided every possible help to get the Government scholarships.

- Earn and Learn Scheme: This scheme being implemented by the institute in association with the SPPU that enables the socially and economically weaker students to earn money by working in various departments and library.
- Book bank scheme is provided to SC/ST students by SWD.
- Institute helps economically weaker students for getting financial assistance from different agencies.
- Scholarship is also available under EBC scheme.

ii) Students with physical disabilities:

The institute is providing the following facilities to the differently-abled students.

- Preference is given for hostel accommodation.
- Lecture and Examination halls are provided at the ground floor.
- Extra time is given for examination of theory paper and labs.
- Administrative support to avail concessional travel to attend conferences, seminars, industrial visits etc. from state and central government agencies.
- Ramp is provided.

iii) Overseas students:

Institute does not have admission quota for overseas students.

iv) Students to participate in various competitions at National and International level.

The students are encouraged to participate in various competitions at national and international level.

- Students are participating in extra-curricular and co-curricular activities such as technical fests, cultural events, and sports events etc. Necessary support and services are provided by the institute like financial assistance, Wi-Fi facility, and library facility. Faculty members are deputed to assist and guide the students.
- Students are also participating in competitions like AVISHKAR, national level research conferences.
- Students are provided with necessary guidance for the competitions / conferences by the faculty in every department.
- Financial support and sponsorship facility is given to all the teams of students to participate in various activities ROBOCON, SAE India Supra & BAJA (an event organised by SAE) etc.
- Cultural activities like Purushottam Karandak, Firodiya Karandak, KJ's Youth Fest are well supported by the institute with financial assistance.
- Information about various competitions is displayed on notice board as well as the information desks of students of other institutes are allowed for campaigning their activities.

v) Medical assistance to students: health centre, health insurance etc.:

The necessary medical assistance and required facilities are made available to the students by the institute.

- All types of necessary medical assistance are provided to the students.
- First aid boxes are available at central workshop and in all departments.
- The students are covered under life insurance scheme of SPPU.
- Institute vehicle is available for emergency medical service.
- Medical check –up and blood donation camps are arranged in the institute.

vi) Organizing coaching classes for competitive exams:

- The institution is supporting the students by arranging special training programs, STP, soft skill training programs for students on a regular basis, by the internal and external experts.
- Language laboratory facility is available. T&P cell helps in organizing activities on GD, personal interview, personality development, soft skill development, etc.
- Guest lectures / seminars / workshops of eminent professional institutes are organized for GATE, GRE, CAT, TOEFL etc. for guidance, & preparation.
- Study material related to GATE and other competitive examinations is available in the institute library.
- Details of students appeared / appearing during last four years for professional examinations are shown in **Table 5.1.4**.

Table 5.1.4 Details of number of students appeared for Professional Examinations

SN	Year	Exam	Appeared
1	2012-13	CAT/MBA-CET	01
		GATE	01
		GRE/TOEFL	NIL
2	2013-14	CAT/MBA-CET	03
		GATE	36
		GRE/TOEFL	09
3	2014-15	CAT/MBA-CET	03
		GATE	04
		GRE/TOEFL	06
4	2015-16	CAT/MBA-CET	01
		GATE	28
		GRE/TOEFL	05
5	2016-17	CAT/MBA-CET	02
		GATE	110
		GRE/TOEFL	02

vii) Skill development (Spoken English, Personality Development Program, Technical Certifications etc.):

- Communication skills are taught as a part of the curriculum and practical sessions are conducted in a language laboratory.

- In addition, guest lectures by eminent and distinguished personalities are arranged by the T&P cell and every department takes efforts to enhance soft skills such as spoken english, resume writing, personality development etc.
- Students and faculty members are encouraged to use NPTEL learning resources.

viii) Support for Slow learners

- GFM scheme is available in each department wherein the guardian teacher acts as friend – philosopher – guide to each student identifying slow learners.
- GFM meetings are organized to understand the personal growth and performance of students.
- Improvement tests are conducted for those who need to improve performance in internal assessment tests.
- Question bank & set of question papers of previous University examinations are provided along with model answers.
- Slow learners/students who are at risk of failure and dropout are identified based on their performance in the first half of the semester. These students are provided counseling for academic performance enhancement.
- The mock practical examinations are also conducted for such students to improve their performance in practical skills.
- Weak students are identified on the basis of qualifying/University examinations. Additional lectures and practical are conducted to bring them at par with other students.

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

- Students are encouraged and guided to participate in events organized by the institute and other institutions by giving them specific instructions and notifications.
- BAJA, SUPRA etc. - national level competitions are financially supported and encouraged for interdisciplinary learning.
- National level technical symposium KJ Youth Fest is organized every year in which students from other institution participate at a very large scale.
- Students are encouraged to take internship / sponsored projects with various renowned industries / firms, other reputed institutes and organizations.
- Industrial visits and expert talks of professionals from industry are arranged for practical exposure in every semester.
- Workshops and seminars are organized frequently on recent developments in technology. I-I-I cell is actively organizing such activities for students.
- The students are motivated to participate and present research papers in various national and international conferences/ journals and workshops.
- Students having excellent academics are assisted and supported by KJEI trust.

x) Publication of Student Magazine

- In academic year 2014-2015, department of Mechanical Engineering published magazine named “Macquinal Demenour”.
- In academic year 2014-2015, Department of Electrical Engineering published magazine named “Corona”.

x) News Letter:

- In academic year 2015-16, department of computer engineering published a news letter named “Techno vision 2015”

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

Institute has established an EDC which aims to instil entrepreneurship skills in students. Various activities are conducted throughout the year to equip the members with qualities of leadership, professional ethics and create awareness of current and future trends of the industry. EDC was established with the objective of developing and mentoring the spirit of entrepreneurship among the students.

Achievements of Entrepreneurship development Cell:

- Expert Talk was given on “Expectation of Industries from fresher graduate” by Mr. Jagatap, M V M, Chakan, Pune, on 01/03/2014.
- Expert Talk was given on “Entrepreneurship Development” by Mr. Sunil Mirashi on 11/3/2014.
- Conducted “Three Days Entrepreneurship Awareness Camp” for Students on 18/03/2014, by Mr. Sunil Mirashi, Divine cooperation, Pune
- Prof. Rathod R. D., KJCOEMR, attended FDP on “Entrepreneurship in VAMNICOM, PUNE” on 02/06/2014.
- Expert Talk was given on “Youth Awareness- Entrepreneurship” by Mr. Sangram Khade on 02/7/14.
- Expert Talk was given on “Entrepreneurship Developement” by Mr. Nitin Gavhane, ThyssenKrupp Industries India (TKII), Pune, on 07/11/15.
- Expert Talk was given on “Leadership in – Entrepreneurship” by Mr. Mukesh jain. Nice system, on 04/03/16.

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.

The institute has framed the following policies and strategies to promote the participation of students in co-curricular and extra-curricular activities:

- All the students must know the advantages of participation of students in extracurricular and co-curricular activities.
- Every teacher must involve in promoting these extra activities with their innovative ideas and effective implementation.
- Admission committee identifies the students who have cultural talent at the time of admission.
- Institute will give financial support to conduct various activities within the campus and for the students to participate in other institutes.
- Every department will support participation of students in extracurricular and co-curricular activities and consider while giving term work marks to the students.
- The provision is made to invite experts in academic field to addresses the students.
- Artists are invited to college for sharing their experiences and achievements so as to develop interest among students towards music, dance, painting, writing poems etc.

- Awareness lecture on importance & role of extracurricular activities in their career building.
- The term work mark distribution and marks are assigned for participation of students in extracurricular and co-curricular activities are displayed on the notice board.
- Identification of talent among students through GFM Scheme.
- Encouragement to the students to participate in events organized at zonal level, State level, and national level as well as in lead Institute activities.
- Every department will consider such participation of students as part of their regular calendar activities and submit an activity report to the Principal.
- Various bodies are functioning to promote the participation of students such as ETSA, CESA, EESA, MESA, IETE, ACES, IEI, CSI, SAE, SUPRA, Students Council and NSS etc. which help the students to improve their skills and work for the community.
- The Principal and officers of various committees and cells address the students in the induction programme. At the time of orientation programme the staff of the college will let the students know about the available facilities.

Additional academic support, flexibility in examinations:

- Participating students gets benefit in terms of term work.
- Flexibility in conduction of internal tests/ examinations for participants.
- Academic guidance & extra practical facility is extended to the students participating in extra and co-curricular activities.
- Allowance like TA-DA, registration fees, additional expenses are provided.

Special dietary requirements, sports uniform and materials:

- Institute provides sports kit and sports material to students who participate in international, national, state, inter-zonal, zonal, lead institute's competitions etc.
- Institute vehicle is available for students.
- Sports advisor gets TA – DA for SPPU level sports activity.
- Institute supports students financially for Purushottam & Firodiya Karandak activities.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT /GRE / TOFEL / GMAT / Central /State services, Defence, Civil Services, etc.

The support and guidance provided by the Institute to the students in preparing for the competitive examinations is as follows:

- The institute has a separate cell for competitive examination and motivates its students for higher studies and for research. Its main objective is to create awareness about competitive exams among the students and to provide academic facilities to students aspiring for the Civil Services Examinations, GATE, GRE and other such competitive examinations.
- Orientation & guidance lectures are organized every year. Students who are interested and willing to appear in various competitive examinations are helped by the teachers by the way of study material and counselling for preparation.
- Students are allowed to have access to library and to refer books related to entrance examination.
- Aptitude tests and mock tests are arranged for the students.

The details of number of students appeared and qualified in various competitive examinations in recent years are shown in **Table. 5.1.7.**

Table 5.1.7: Number of students appeared & qualified various competitive exams

SN	Year	Exam	Appeared	Qualified
1	2012-13	CAT/MBA-CET	01	01
		GATE	01	01
		GRE/TOEFL	NIL	NIL
2	2013-14	CAT/MBA-CET	03	03
		GATE	36	03
		GRE/TOEFL	09	09
3	2014-15	CAT/MBA-CET	03	03
		GATE	04	04
		GRE/TOEFL	06	06
4	2015-16	CAT/MBA-CET	01	01
		GATE	28	03
		GRE/TOEFL	05	05
5	2016-17	CAT/MBA-CET	02	02
		GATE	110	NIL
		GRE/TOEFL	02	02

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

The different types of cells working in the institute are enthusiastic to provide counselling services meticulously to the student community. The teacher renders guidance in studies, career planning and also address personal and psycho social issues.

Academic: The institute provides regular counselling to the students to address issues relating to their academic shortfalls and obstacles. The institute has a GFM scheme where a group of students are placed under the guidance of Guardian Teacher. It is held to minimize or remove fear of examination and to increase self confidence level. Counselling is being done through orientation for solving the problems that the newly enrolled students face.

Personal counselling: The GFM performs regular interaction with the students placed under their guardianship at one to one level. A friendly environment is provided to make them comfortable to share their personal problems. The GFM maintains secrecy of any personal information and takes necessary corrective steps in consultation with senior official staffs, thereby addressing personal problems.

Career counseling: The institute encourages students towards taking up higher studies and research. Timely counseling service is made available to students, right from their entry into the institute till the completion of the course. This service is jointly carried out by the admission committee, career guidance and counseling cell and T&P Cell.

The following notable actions are taken:

- Special training for preparation in GATE Examination
- Special training for Govt. Service Examination

- Aptitude training, STP, soft skill and technical skill lectures are arranged for the students apart from their normal classes through special scheduled classes.
- COCUBES report to the individual students also gives career guidance and the strength of the students wherein he or she can perform the best in his or her life.

Psycho-social counseling: Institute has understood that students having psychosocial disorders frequently have difficulty in coping up with social situations as this reflects in effective communication with others. The problems related to social factors affecting student's mental health e.g. peer pressure, parental support, cultural and religious background, socioeconomic status, and interpersonal relationships etc. are addressed through their GFM. Many times the senior faculty members of institute also get involved to control problems relating to above factors, special committees are also set up to strengthen student's personality and psychological makeup. Experts in the fields of educational psychology and social psychology are invited to address the students. This type of counseling helps the students to identify their psycho social problems and adopt the measures to solve them.

Apart from this Principal, HoDs help in personal counseling whenever required. Psychological counseling is done especially to:

- Deal with stress and other pressures
- Resolve fears, panic and anxieties
- Cope with continuing family problems
- Handle crises in relationships
- Work through difficult decisions
- Break through depression and sadness

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 programmer).

Yes, the institute has established a separate T&P Cell with a full time TPO. It invites companies for campus placements. As a part of preparing students for campus placements, all students attend personality development classes taught by TPO which includes interview training, group discussion and public speaking.

The T&P Cell caters to the needs of the students by providing the necessary training in developing the soft skills, so as to equip them to excel in competing in the job market and face interview committees with confidence in the final year. The students are facilitated with in-campus coaching in personality development, aptitude and communication skills. Also every faculty member takes initiative to guide the students for career opportunities, competitive examinations, placement and higher courses in the respective subjects.

Placement record: The placement of students through T&P cell for last four years is shown in *Figure 3.7.5* in criteria III.

Companies visited for campus placement drive through T&P Cell is noted in **Table 5.1.9(b)**.

Table 5.1.9(b): List of companies visited for Campus Placement

Zensar Technologies	Infinite Computing Systems Pvt
Persistent Systems Limited	Qlogic
Infosys	SAJ Test Plant Pvt. Ltd.
Cybage	True Thread
IBM	VIT Infotech
Tech Mahindra	Vitronics Controls
L&T Infotech	EKI
Atlas Copco	Tata Communication
TCS	Accurate
Polaris	Nanco
Quinnox	IQS Tech
Flextronics	Reddvis
KPIT	Crest Premedia
Capgemini	EVER Electronics
Webtech	MS INTELUX
Market & Market	Ajinkya Electronic Systems
Textronics	Cern System
GS Lab	SANY Heavy Industries
Mphasis	Analyzer CEA
Vertusa Software Ltd	Ognibene India Ltd.
Bitwise Global	Toro Cooling Systems Pvt. Ltd.
MAN Diesel	Watershed Org. Trust
Siemens	SGS Technologies Pvt. Ltd.
3DPLM	Surekha Electronics Pvt. Ltd.
Volkswagen	Indiana Conveyers
Cognizant	KJ Infra
Voltas	Desai Electronics
DANA	Prolifics
KPIT	Dhanda Engineering
Cummins	B.N. software ltd
CORONA	C-Tech
HSBC	ALKA Technologies
Methi Technologies	Om Exports Pvt. Ltd.

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, the college has a grievance redressal cell. A Suggestion Box is placed at a prime location inside the campus for receiving complaints/grievances from students in writing. The box is opened periodically and necessary actions are taken to redress grievances. The personal grievances are handled carefully and sensitively and whenever required, appropriate counseling is also provided by the teachers or the Principal. There is also a separate register for cleanliness-related complaints, which are attended promptly. The college is also open to receive information about the problems and grievances of students through letters and e-

mails. The Principal is also receptive to the students who can walk into his office at any time during office hours.

Grievance redressing is done not by a single cell or committee but by the committee or cell concerned with the issue. In the case of admissions, for example, there is a separate grievance committee. So is the case with ragging or sexual harassment. There has been no major grievance in the last four years.

The college is sensitive enough to meet student's grievances both in academic and administrative issues. Minor grievances orally communicated to Principal's office are urgently and appropriately redressed. The constitution of the cell is given in **Table 5.1.10**.

Table 5.1.10: Grievance Redressal Committee

SN	Committee member/Department	Responsibility
1	Dr. S. S. Khot	Chairman
2	Mr. S. K. Patil	Secretary
3	Mr. Lalit Kumar	Member
4	Mr. P. E Ingle	Member
5	Mr. D. C. Mehetre	Member
6	Mr. P. U. Chavan	Member
7	Dr. H. R. Kulkarni	Member
8	Mr. S. P. Panchbhai	Member

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

The institute has established women grievance cell to resolve the issues pertaining to sexual harassment. The cell holds periodic meetings and strives to create awareness amongst faculty, staff and students. Grievances, if any, are thoroughly investigated and efforts are taken to ensure that justice is met to the victim/complainant. The constitution of the cell is given in **Table 5.1.11**.

Table: 5.1.11: Women Grievance Committee

SN	Committee member/Department	Responsibility
1	Dr. S. S. Khot	Chairman
2	Mrs. P. P. Chavan	Secretary
3	Mrs. G.S. Patil	Member
4	Mrs. P. N. Deshmukh	Member
5	Mrs. R. M. Kedar	Member
6	Ms. S. Jadhav	Member

5.1.12. Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

The institute has established anti-ragging committees for the institute and hostel. CCTV cameras are installed in the campus and hostels to monitor such activities. A suggestion box is available for students to forward their suggestions / complaints. No instance of ragging has been reported in last 4 years is Shown in **Table.5.1.12**.

Table 5.1.12: Anti-ragging committee for Institute

SN	Name of the Staff Member	Designation	Type of Nominee
1	Dr. Suhas S. Khot	Principal	Chairman
2	Dr. H. R. Kulkarni	FE Coordinator	Teaching Faculty
3	Mr. S. P. Panchbhai	OS	Non Teaching Faculty
4	Mr. S. Kolte	Member	Member (Local Media)
5	Mr. V. Bankar	Member	Member (Head Constable)
6	Mr. S. Bagal	Member	Member (Parents representative)
7	Mr. A. Dhumal	Member	Student Representative Boys
8	Miss. S. Shinde	Member	Student Representative Girls

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

The welfare scheme made available to students by the institution is Earn & Learn Scheme laid down by SPPU. The scheme was implemented in the college with the permission and approval from Board of Student Welfare, SPPU. The main objective of the scheme is to develop a student as a multifaceted personality with academic excellence and a commitment to an egalitarian society. Students are given technical work, official work, library work and sports ground preparation/maintenance work under supervision of the concerned staff. The students have shown keen interest in the work along with their academics. Institute has provided the initial funding support for the scheme with additional remuneration from SPPU.

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 institute has a registered Alumni association. It was established on 16/12/2013. The activities executed under the banner of by Alumni are as follows;

- Sponsoring various extracurricular events like SUPRA, co-curricular events like student conferences etc.
- Conducting mock interviews and resume writing sessions for enhancing placements
- Arranging guest lectures by alumni members and other prominent people for students on current technical and non-technical topics
- Helping students to get sponsored projects and internships
- Donating books to library

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 percentage of students progressing to higher education and employment in the institute is categorized as;

- Students progressing to higher education UG to PG.
- Significant students are going for PhD in last two years.
- Employed through Campus Selection from UG is Shown in **Table.5.2.1**

Table: 5.2.1 Students progressing to higher education

Student Progression	Number of Students				
	2012-13	2013-14	2014-15	2015-16	2016-17
UG to PG	01	08	12	10	11

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 programme wise details of the institute in comparison with the performance of previous years is given in **Table 5.2.2**.

- The programme wise passing percentage and completion rate for the last four years
- Comparison is done for all departments UG and PG.
- Comparison of percentage of passing per branch per year

Table: 5.2.2 Programme wise details of performance of Students

Year	2012-13	2013-14	2014-15	2015-16	2016-17
E&TC (No. of students)	39	50	98	97	87
No. of students passed	39	50	97	97	85
Percentage of Passing	100	100	98	100	98
Mechanical (No. of students)	114	125	106	223	197
No. of students passed	63	116	100	160	177
Percentage of Passing	55	92	94	72	89.85
Civil (No. of students appeared)	49	54	48	111	132
No. of students passed	38	48	41	98	99
Percentage of Passing	78	88	85	88	75
Computer (No. of students)	59	66	58	88	134
No. of students passed	58	61	56	77	121
Percentage of Passing	98	92	97	88	90
Electrical (No. of students)	NIL	57	38	60	72
No. of students passed	NIL	55	38	53	67
Percentage of Passing	NIL	97	100	88	94

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

The institution facilitates student progression to higher level of education and/or towards employment by following way:

- The personality and skill development programs are conducted under STP to develop students' technical & soft-skill abilities.
- Students promoted for GATE/GRE/TOEFL
- Industrial interaction for students (Industrial visit)
- Special lectures on aptitude, soft skill and technical skill

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

Special support is provided by HoD, class teacher, GFM, to students who are academically weak. Additional practice sessions and mock tests are conducted for these students. The subject teacher identifies the students who are at risk of failure through internal and end semester exam of University. These students are assigned to write extra assignments and attend remedial lectures.

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.

Institute carried out various sports, games, cultural and other extracurricular activities for students. Institute prepares the program calendar for sports, technical, cultural and other extracurricular activities after taking inputs from HoD meeting. Apart from that SPPU also publish program calendar for various activities in which students can participate.

Table 5.3.1(a) & 5.3.1(b) shows the list of the number of students participated in different events.

Table 5.3.1(a): List curricular and extracurricular activities

Sr. No	Name of Activity	No. of Student Participated				
		2012-13	2013-14	2014-15	2015-16	2016-17
1	SAE BAJA	-	25	-	-	-
2	SUPRA	-	-	25	-	-
3	Go-Kart	-	-	-	25	19
4	Firodiya Karandak	-	-	42	42	42
5	KJ Youth Fest- Cultural	39	64	70	68	152
6	KJ KARANDAK- Technical	47	58	56	60	64
7	Gravity National Level Project Competition	-	-	250	300	342
8	Spiritua	4	-	-	-	-
9	Nirbhay Kanya Abhiyan	-	-	-	18	-

Table 5.3.1(b): List of sports and games activities

Sr. No	Name of Activity	No. of Student Participated				
		2012-13	15	2014-15	2015-16	2016-17

1	Cricket	15	15	15	15	15
2	Football	15	12	15	15	15
3	Kabbadi	12	120	12	12	12
4	KJ KARANDAK- Sports	90	125	110	120	152

Apart from that, various extra-curricular activities are taken by college where number of students get platform to show their hidden talent.

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.

Our students actively participated in a large number of Cultural, technical, sports, extracurricular and co-curricular activities at different levels: University / State / Zonal / National / International and have won awards for the same, are listed in **Table 5.3.2(a), (b) & (c)**

Table 5.3.2(a): Major student achievements in co-curricular, extracurricular and cultural

SN	Academic Year	Name of Students	Competition/ Event Name	Organized by	Award/ Place Secured
1	2012-13	Rohit Pawar	Carrom	KJ Youth Fest	2 nd
2		Yoshodhan Joshi	Dance	KJ Youth Fest	1 st
3		Sumit Vardale	Solar Bolt	KJ Youth Fest	2 nd
4		Hrushikesh Shewale	Football	KJ Youth Fest	Runner Up
5	2013-14	Ranjeet Daingade	Table Tennis	KJ Youth Fest	Runner Up
6		Rohit Pawar	Carrom	KJ Youth Fest	2 nd
7		Kuldip Pawar	Badminton	SPPU	2 nd
8		Ganesh Prajapati	Badminton	SPPU	Winner
9	2014-15	Galdhar Mangesh Dilip	--	Chatrapati Krida Sankul	Participant
10		Onkar Nalwade	ROBO	Sinhgad Karandak	1 st
11		Sadhana More	Singing	KJ Youth Fest	2 nd
12		Sneha More	Project Expo	KJCOEMR	Winner
13		Priyanka Chavan	Project Expo	KJCOEMR	Runner Up
14		Dhone Sumit	Project Expo	KJCOEMR	2 nd
15	2015-16	Junaid Sayyed	Robo Race	Al-amin College	1 st
16		Sunny Kadam	Group Dance	KJ Youth Fest	1 st
17		Manoj Jagtap	Kabbadi	KJ Youth Fest	1 st
18		Akshay Jagtap	Kabbadi	KJ Youth Fest	2 nd
19		Snehal Khandekar	Project Expo	KJCOEMR	Winner
20	2016-17	Swapnil Ekbote	Cricket	MIT, Loni	Runner Up
21		Rohit Vhankade	Kho-Kho	Pune Inter Zonal	Runner Up
22		Akash Survase	Kho-Kho	Ashwamedh, AI SSMS	Winner

23		Rohit Vhankade	Kho-Kho	ZEST Event, COEP	3 rd
24		Firoj Mulani	Box Cricket	MAVERICKS-17, VIT	Winner
25		Swapnil Ekbote	Cricket	KJCOEMR	Winner
26		Sourabh Pawar	Kabaddi	KJCOEMR	Winner
27		Monika Kumbharkar	Kabaddi	KJCOEMR	Winner

Table 5.3.2(b): Students Achievements at University Level

SN	Academic Year	Name of Students	University Rank	Branch
1	2012-13	Abhijeet Akhade (Cricket)	Winner	Mechanical
2		Manoj Badade (Badminton)	Runner Up	Mechanical
3		Ganesh Prajapati (Cricket)	Winner	Computer
4		Devendra Shah (Cricket)	Winner	Computer
5	2013-14	Ganesh Prajapati (Badminton)	Winner	Computer
6	2014-15	Manoj Badade (Badminton)	Winner	Mechanical
7	2015-16	Abhijeet Akhade (Cricket)	Winner	Mechanical
8		Manoj Badade (Badminton)	Runner Up	Mechanical
9		Niraj Waval	Gold Medal	Computer
10	2016-17	Firoj Mulani (Cricket)	SPPU Cricket Team Member	Civil
11		Swapnil Ekbote (Cricket)	Pune District Grameen Zone (Captain)	Civil

Table 5.3.2(c): Students Academic Achievements at University Level

SN	Academic Year	Name of Students	University Rank	Branch
1	2012-13	Mr. Udaysingh Bhosale	1 st	Mechanical
2	2015-16	Miss. Priyasingh Ahirwar	1 st	E&TC
3		Mr. Dyaneshwar Kale	9 th	Civil
4	2016-17	Mr. Prakash Gawade	-	E & TC

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 provision.

The Institute has made an arrangement to seek and use data & feedback from graduates and employers, to enhance the quality & performance by following ways:

Student Feedback:

The institute takes feedback from its alumni students during alumni meet. A set of question are given in the feedback form regarding the placement assistance, quality of teaching, facilities given by institute and their feedback is collected and analyzed. The suggestions given by alumni are taken into consideration while designing academic activities.

Employer Feedback:

Alumni and T&P cell takes the feedback from employer through structured set of questionnaires. The suggestions given by graduates, alumni and employers are taken into consideration to improve the quality in T-L-P and to improve placement process. Some of them are listed below:

- Understanding of core subject & their application
- Adaptability to new technologies and flexibility towards current nature of work
- Leadership qualities & team spirit
- Ability to interact & work with diverse groups
- Punctuality, overall discipline, loyalty, meeting deadlines and commitment to work

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

Yes, institute is always sincerely involved and encourages students to publish materials like wall magazines, departmental magazine etc. The details of list the publications/ materials brought out by the students are as follows:

- Macquinal Demeanour (Mechanical Department Magazine).
- CORONA (Electrical Department Magazine).
- Drama Script (University Drama Competition: Best Script Writing University Award, Script Witten by student for play of Firodiya Karandak, University Drama Competition)
- Display their creative work, articles, poems, technical articles, and sketches on notice board.
- Technical paper presentation in various national and international conferences.
- Motivate students to make short films.
- Short news on various activities to publish in news paper.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes, institute has student council as per the Maharashtra University UGC act 1994 (40/2/B) students council is established in year 2013 and it is formulated every year. All these members are selected / elected by the guidelines given by SPPU. The student's council consists of Principal, one faculty member from college, Student Welfare Officer, NSS Program Officer, Class Representatives (CR/LR) of each class from all departments and one student from extracurricular activities like NSS, cultural, sports and technical activities. The objectives of student's council are as follows:

- Motivate students to participate in technical and soft skill events.
- Organize annual K J Youth Fest.
- Celebrate of Independence Day, Republic Day, Teacher Day & Engineers Day.
- Organize blood donation camp, tree plantation, voter's awareness programs etc.
- To organize University level activities

5.3.6 Give details of various academic and administrative bodies that have student representatives on them organized by students.

Various academic and administrative bodies that have student representatives are as follows:

All organizing committees for seminars, conferences and workshops conducted for students by the institute.

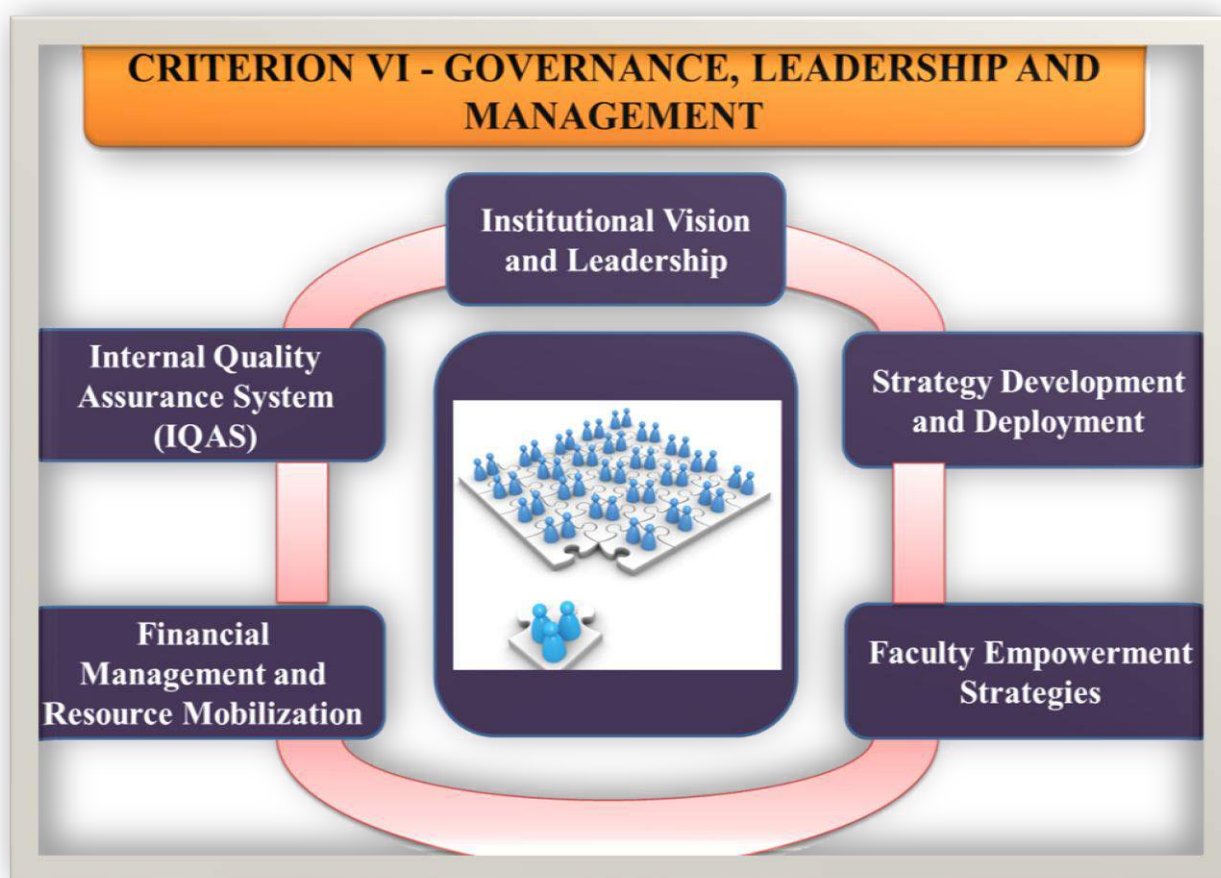
- Students Council: Consist of UR, GS, LR, ALR and CRs
- MESA: Mechanical Engineering Students Association
- ACES: Association of Computer Engineering Students
- CESA: Association of Civil Engineering
- ETSA: Electronics & Telecommunication Engineering Students Association
- EESA: Electrical Engineering Students Association.
- Cultural & Sports Committees
- NSS Committee as per SPPU
- BAJA, GO-KART team
- IETE,IEI Student Chapters of Professional Society
- EDC

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

Institute interacts with their alumni and former faculties through following ways:

- Interaction with alumni through E-mail.
- Annual Alumni meet.
- Social media and various activities conducted by alumni association.
- Yearly technical symposium “TRYPTECH” and “ K J YOUTH FEST”
- Seminar/Conference/Workshops (Inviting as Judge and participant)
- Interaction with formers faculty member is done through invitation for guest lectures and external examiners etc.

-000-



CRITERION VI: Governance, Leadership, And Management**6.1 Institutional Vision and Leadership**

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Kalyan Jadhav's Educational Institute (KJEI), established in 2008, the East Coast Mecca of engineering, management and sciences is the ultimate place for information overload, endless possibilities and expanding horizon.

K J College of Engineering and Management Research (KJCOEMR), established in 2009 under the umbrella of KJEI, for developing engineers to meet the socio-economic development.

Vision

To be a premier knowledge center of the nation for socio-economic development

Mission

To provide education that combines rigorous academics with joy of discovery through sustained efforts and dynamic strategies in building innovative, participatory, problem based learning practices and research that leads to capacity building of the students.

Institute's noble vision is to raise professionals and leaders of high academic caliber who can face the challenges of advancing technology and newer knowledge areas. Students are made to interact with the industry, by way of industrial and research projects, internships, in plant trainings, industrial visits. It exposes them to recent industrial trends and to seed the spirit of research. Faculty continuously updates themselves and is equipped with skills to impart knowledge of the highest standards. KJCOEMR has tie-ups with various industries and research institutes for knowledge creation and technology development.

NSS activities make students responsible towards society, environment, global issues, etc and develop into responsible citizens. In the coming years, recognizing the need for developing/designing courses as per the need of industry and to increase global employability.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The top management of institute plays important role to provide excellent infrastructure facilities and healthy teaching and learning environment to the students and faculty in order to implement the quality policy and plans. Principal and faculty work together for designing and implementing policies and plans.

Principal provides academic leadership and try to percolate the qualities of leadership among HoDs and faculty. The HoDs and faculty members are actively involved in decision-making process through various committees. The Principal holds meeting with HoDs every week. All the decisions and policies to improve academic activities are reviewed and discussed during the meetings before implementation. Therefore, HoDs acts as representatives of the faculty who are involved in the institutional decision-making.

Top management

- Set the objectives in accordance with the quality policies and shares views with the GB, LMC and AMC by periodic meetings.
- Recruit qualified and experienced faculty for effective implementation of TLP.
- Provides excellent infrastructure and financial support as per growing needs.

Principal

- Shares the views of management and decisions taken by the top management in the meetings with academic dean and all HoDs for academic and administrative review.
- Motivate, appreciate and guide the faculty, staff and students to achieve the institutes vision and mission.
- Provide the financial and moral support for professional and personal development of faculty and staff.
- Interact with all teaching and non teaching staff by periodic meetings/GB Meetings.
- Support for the development of individual department by arranging conferences, seminars, workshops, guest lectures, etc.
- To make the healthy atmosphere for retaining the faculty and staff.

Faculty

- Top management and Principal create a healthy atmosphere for faculty by involving them in various committees of the institute.
- Take efforts to fulfill the targets decided by top management and principal by effective TLP.
- Upgradation of faculty on personal, technical and professional grounds continuously.

6.1.3 What is the involvement of the leadership in ensuring:**a) Policy statements and action plans for fulfillment of the stated mission**

- The policy statements and action plans are finalized by top management. Principal along with the GB and AMC formulate the action plans for the stated mission.
- Activities for fulfillment of mission and objectives are planned by Principal and all HoDs.

- Expected outcome is achieved from faculty and students by various training programmes to improve their leadership skills.
- As a part of action plan, institute analyses learning outcomes and remedial actions.
- I-I-I leads to update the changing needs of new technologies.

b) Formulation of Action Plans for All Operations and Incorporation of the same into the Institutional Strategic Plan:

- Action plans are formulated by Principal, academic dean and heads in consultation with top management by considering the feedback from the stakeholders.
- The plan is same for all the departments and it involves faculty, staff and students for implementation.
- The academic calendar which involves academic, co-curricular, extracurricular activities and events helps to implement the formulated plans.
- GB and LMC make sure that every department gets sufficient funds to execute the plans.

c) Interaction with Stakeholders

There are many channels for the interaction between the stakeholders for their involvement as a leader while leading the students as shown in *Figure. 6.1.3*

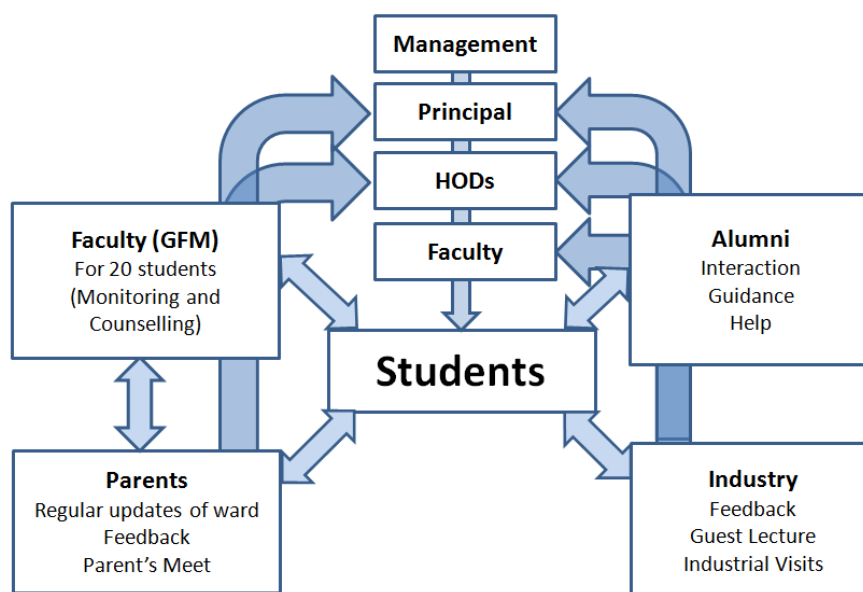


Figure 6.1.3: Interaction with Stakeholders

Stakeholders are involved as leaders through:

- GFM's interaction with their assigned students for counseling and guidance.
- GFM's communication with the respective parents about the progress of their wards.
- Interaction of parents with Principal, HoDs or faculty for counseling and feedback.
- Alumni interaction with current students for counseling and guidance.
- Industry interaction with students for career guidance.
- Guest lectures of domain specific industry person for technological awareness.
- Industrial visits to expose students for the corporate world.
- Suggestions of alumni & employers to bridge the gap between academia and industry.

Following different meetings are conducted in the institute for interaction

- | | |
|-----------------------------|---------------------------------------|
| • GB Meet | • Employer's Feedback |
| • LMC Meet | • Placement Coordinator meets |
| • Principal's meets at KJEI | • Library Committee meets |
| • Principal HoD meeting | • Industry Institute Interaction meet |
| • Departmental Meeting | • Common faculty meet |
| • GFM Meeting | • Hostel Committee meets |
| • Student Council Meet | • Mess committee meet |
| • Alumni meet | • And many more... |
| • Parents meet | as and when required |

d) Proper Support for Policy and Planning through Need Analysis, Research Inputs, and Consultations with the Stakeholders are as follows:

- Principal along with the HoD takes review of academic results and formulate strategy and plan for quality results. These plans preferably consist of remedial classes, mock examinations, mock orals, assignments, counseling etc.
- Term work marks are given to the students based on various parameters such as attendance, unit test marks, prelim marks, mock examination marks and their participation in co-curricular and extra-curricular activities are also considered.
- Management in consultation with Principal and HoD gives encouragement for the research activity through research oriented projects of faculty as well as students and I-I-I.
- University also supports research activity by giving proper funding to some of the selected research projects.
- Interaction with employers gives important areas in which the students are supposed to improve their personality and knowledge to increase the employability.
- Parent teacher interactions are responsible for creating conducive environment for the students to give their best performances.

e) Reinforcing the Culture of Excellence

- To develop the competitive culture in various departments for development of the institute.
- To develop research culture among the faculty and students by providing the financial and moral support to them.
- To organize various technical programs, workshops, seminars and guest lectures to improve the leadership skills and technical knowledge of faculty and students at various levels.
- To encourage the faculty and students by appreciation letters, awards, prizes and certificates.
- Take continuous review in the form of feedback and suggestions for excellence of the institute.

f) Champion Organizational Change

- While deciding the plan of action mainly understands the industry need for employability of the student.

- Management provides upgrading infrastructure facility and resources as per the need of the global education society for higher education of students and also creates the potential entrepreneurs.

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 procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time are as follows:

- GB meetings are held to review academic and administrative performances.
- The suggestions of GB are communicated to Academic Dean and all HoD by the Principal and then it is communicated to the faculty and staff by HoD in departmental meetings.
- AMC designs the academic calendar before the start of semester and its execution is monitored by HoD and academic dean.
- The AMC reviews all the activities and its implementation through students feedback, mock examinations, unit tests, prelim exams, monthly attendance of the students, remedial action plans and University result analysis.
- The feedbacks from outgoing students are true and unbiased with respective faculty and department where all the suggestions are taken positively by the department. The department and institute adaptively make changes based on such a feedback.
- Formal and informal employer feedback always helps TPO while implementing placement procedures. The requirements of industry and quantum of students to be placed always needs changes in placement procedures time to time.

The institute has appropriate formatted documentation procedure for result analysis and placement analysis to assess the attainment of program outcomes. This documentation helps the faculty in understanding the difficulty level, student performance and remedial actions that are required for better performance.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

Top management provides absolute powers and co-operation in academic leadership to faculties. Faculties have not only been the organizational backbone of the institute but active participant in decision making process to achieve vision, mission and goals. The details of responsibilities, duties, and expected outcomes from the individual are as follows:

- Principal appoint appropriate person as the HoD who has leadership qualities and understand the students and faculty problems, their situations and expected outcome.
- HoD is empowered to allocate specific subjects to appropriate faculty to give justice and get maximum quality results. In addition to the academic workload, the HoD also assigns few administrative duties to the individual faculty based on the ability and the leadership qualities of the individuals.
- Under the leadership of Principal, coordinators of various committees along with the HoD's are getting delegated powers and responsibilities to handle specific task assigned to them.
- Every faculty member has freedom of deciding the suitable teaching methodology by understanding the time frame and evaluation mechanism of SPPU. All faculty

members exploit their knowledge and ability to percolate the knowledge with the help of academic freedom given by the HoDs with clear understanding of their responsibilities and expected outcomes.

- Based on the feedback and periodic result analysis, the remedial actions to fulfill the expected outcome are specifically given to all the faculty members either by oral discussion or through official orders, if necessary, by the Principal through the HoD.

Once the policy is decided by the top management, a full freedom (academic, administrative and financial) is given to the Principal, HoDs, and faculty.

6.1.6 How does the college groom leadership at various levels?

The institute grooms the leadership at various levels as follows:

At student level:

- Encouragement to conduct various activities by the students for the students.
- Assigning freedom and responsibilities to develop their plan of execution of various activities.
- Enhancement of personality development, and soft skill to build their confidence while executing specific task.
- Motivation and encouragement for new innovative ideas with strong moral support from faculty.

At faculty level:

- Opportunities to lead specific committee while conducting various activities at department and institute level.
- Freedom is given to express their thoughts, new ideas, and novel approaches.
- Inspiring them to lead the students community during the classes, practical and industrial tours to guide the students while acquiring the knowledge.
- Encouragement to lead the faculty while organizing various level seminars and workshops.

At HoD level:

- Decentralization of various tasks to develop leadership at departmental level.
- Assigning few institutional responsibilities well supported by the Principal and the management.
- Creating healthy competition amongst the department and encourage them to achieve superior academic performance.
- Encouragement to visit various reputed organizations to understand their best performance practices and implementation policies.
- Encouragement to follow administrative practices to avoid confusions and hurdles in the path of the success.

At Principal level:

- Freedom is given while executing academics.
- Financial freedom and moral support for the betterment of quality outcome.
- Appreciation of execution of best practices.
- Experiencing healthy competition among the institutes and encouragement to head of the institute to achieve superior academic performance.

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 management of the institute has two main committees GB and LMC. The role of GB is to decide vision and objectives of the institute based on which directions to LMC and head of the institute are given. The GB approves the budget recommended by LMC. Once the budget gets approved by GB, the Principal and HoDs have authority and operational autonomy to utilize the same. The review and progress of the institute is discussed in GB meetings.

HoDs play an important role to suggest the Principal while preparing the budget required for infrastructural development and human resource to complete the goals and vision of the institute. All HoDs help to the Principal during the academic year and handle all academic and administrative responsibilities. Every HoD takes the ownership of the department and gives parental care to faculty and students. They also handle student affairs and any other matter and resolve the issues to make conducive environment for execution of good T-L-P in the department.

Involvement of faculty in various activities and the interest shown by them while executing specific task gives an idea to the HoD to understand the strength of the faculty. HoD is empowered to promote specific faculty to handle dedicated events in best possible way. This process is not only grooming the leadership of HoDs but also useful to create a followers while executing various activities efficiently. Similar approach is also followed by the Principal to promote and encourage HoDs, faculty and staff while executing specific activities for the development of the institution

Faculty members of every department follow all the instructions given by the HoD. They are not only handling the responsibilities of completion of academics but also help HoD in various administrative duties such as GFM, CT, and coordinator of specific committee. Many dedicated faculties are also getting opportunity to perform their duties at institute level.

6.1.8 Does the college promote a culture of participative management? If ‘yes’, indicate the levels of participative management.

Yes, the institute promotes culture of participative management.

- Principal is the member of both GB & LMC and act as a representative of institute while deciding management policies. Representatives of teaching and non teaching staff are also the members of LMC. They are actively participating in relevant discussions.
- Principal has an authority and power while implementing the decisions in various departments. All the HoDs along with the Principal take unanimous decisions while executing the academic and administrative work based on vision and objectives laid down by the management.
- In most of the committees the involvement of faculty and their participation makes the academic and administrative system transparent. They also promote active participation of students by guiding them.
- While executing extra-curricular activities the innovative ideas of the students are promoted to decide plan and strategies.

- Formal and informal feedbacks of students are also useful to modify systems to give positive outcomes. Hence to improve the result of students. Also a strong cultural base is established.
- Each class has a CR and every batch (a class has 3 batches) has a batch representative (GFM) who participate in the decision making for student related issues along with the head and therefore ensure their effective implementation.
- Students also participate in decision making through representation in Student's Council and take active part in co curricular and extracurricular activities.
- Therefore, the institute executes participative management where students, staff, HoDs, Principal, LMC and GB experiences the culture of transparency at their respective levels.

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 institute has a formally stated quality policy. The quality policy of the institute is committed to:

- Provide excellent infrastructure facilities.
- Employ qualified and experienced faculty.
- Encourage the faculty for improvement in qualifications.
- Promote industry interaction.
- Create environment for R & D activities.
- Encourage industry sponsored projects for the students.
- Strive for quality academic performance of students.
- Enhance employability, students going for higher studies and entrepreneurship.
- Training and placement assistance.

Development of quality policy is based on stated vision and mission of the institute. Quality policy states the objectives of the institution for the benefits of the students and society at large. The emphasis has been given for the development of infrastructure facilities, appointment of qualified and experienced faculty and academic excellence.

Quality policy has been driven by the industrial expectations from engineering graduates, rapid change in technology and global industrial scenario. Entrepreneurship development is another sector and an opportunity for the institute based on which the quality policy has to be adaptively changed.

Quality policy has been deployed with clear understanding of vision and mission of the institute and required outcome in terms of academic quality performance, placement, and acceptability of the students by the industry or any other national/ international University for their higher studies.

Review of quality policy depends on the industrial requirements given to the institute in terms of their constructive suggestions. It also depends on the kind of student intake where institute have to adaptively modify our plan of action. The quality measures are also to be reviewed and modified, if necessary, to achieve the expected outcome.

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 institute has a perspective plan for development. Various aspects considered for the institutional perspective plan are as follows:

- Become center of excellence in the field of technical education.
- Enhance student's placements in renowned industries.
- Cultivate interdisciplinary approach.
- Develop institute as a R & D center in association with industry.
- Achieve academic autonomy for flexibility in deciding own curriculum & evaluation.
- Develop international repute and foreign University collaborations for credit transfer.

6.2.3 Describe the internal organizational structure and decision making processes.

Organizational Structure: The internal organizational structure of the institute is as shown in *Figure 6.2.3*.

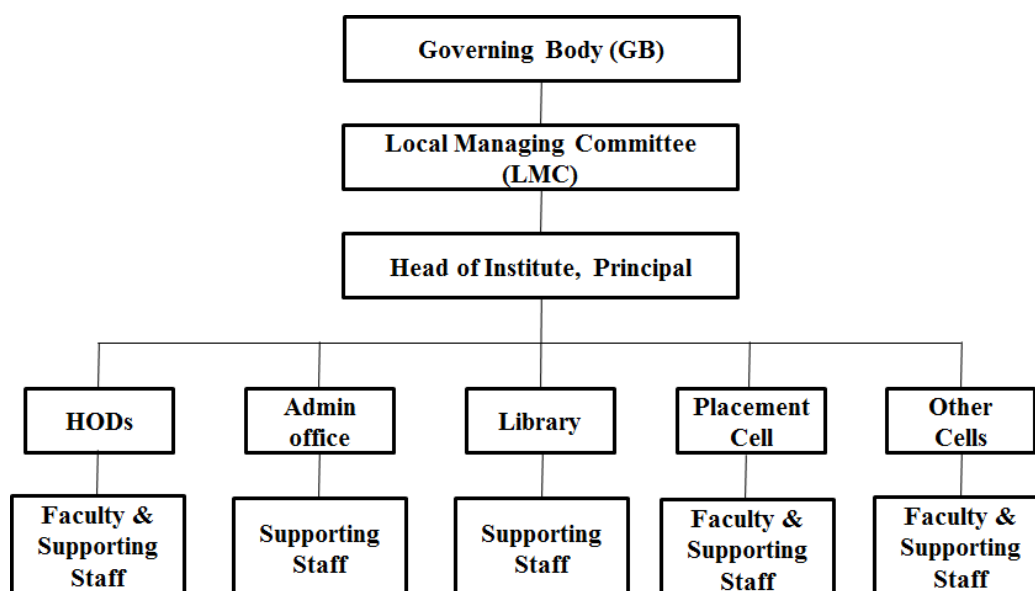


Figure 6.2.3: Internal Organizational Structure of Institute

As per the guidelines of GB and LMC, Principal acts as a leader to percolate policy down the line and decide strategies for the overall development of the institute. Delegation of authority and provision of operational autonomy to the departments / units of the institution and work towards decentralized governance system by proper decision making process has been explained in *Section 6.1.7*.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- Teaching & Learning** : The initiatives taken for enhancing and sustaining quality of teaching- learning processes in the institute are as follows:
 - The institute is having well planned effective academic calendar.

- Continuous evaluation of student is done on the basis of various parameters such as attendance, test marks, etc.
 - Induction programmes for beginners are conducted in the institute.
 - Make up classes for DSE and slow learner students are arranged to cope up with syllabus.
 - Various reference books are available in main library as per the SPPU syllabus.
 - Each laboratory has its lab manual.
 - E-learning resources like NPTEL videos are available for various subjects as per the syllabus.
 - Digital Library facility is availed to students.
 - Industrial Visits are arranged every semester as per the SPPU syllabus and as per the subject need.
 - In house laboratories and equipments are established (Fluid Mechanics lab in mechanical department).
 - Identify contents beyond the scope of subject and teach separately.
 - Guest lecturers / Seminars/ workshops are arranged for both faculty and students.
- b) **Research & Development:** The institute has recently arranged national conference as a major step in research. The institute ensures research in faculty and students by:
- AICTE,BCUD grants
 - Student chapter of Research bodies, its event
 - Promoting and encouraging faculty for research and publication
 - MoU with various industry
 - Facilities such as flexibility in timings, use of laboratories etc are extended to faculty as per requirement
 - Encouraging students to present technical papers
 - Encouraging faculties to apply for research grants
 - Encouraging students to undertake industry projects An I-I-I Cell works in close coordination with the industries and the institute for encouraging both students and faculty to work on live projects.
- c) **Community Engagement:** NSS activities make students responsible towards society, environment, global issues, etc and develop into responsible citizens. NSS activities such as:
- Blood donation camp
 - Educational guidance to secondary school students
 - Awareness program on social problems such as traffic, cleanliness, environment friendly surrounding, energy resources, water problem etc.
- d) **Human Resource Management:** Following are the aim and objectives of Human Resource management of institute
- Recruiting competent faculty
 - Arranging induction program for new joining teachers,
 - Rewarding high performing faculties by providing appreciation letters, certificates
 - Providing increments and promotions to faculties
 - Encouraging faculty for higher studies
 - Counselling low performing faculties and arranging FDP's to improve their teaching learning process

- Arranging training for teaching and non-teaching staff
- Institute implements welfare schemes like transport facilities, medical leaves and Provident fund to staff

e) **Industry Interaction:** The institute has established I-I-I and TPO cell. Institute has appointed departmental industry co-ordinator. Regular interaction with the industries is established through HR meetings, internships, industrial visits, alumni of institute, expert talk form industry person, interview by industry persons and industry sponsored final year projects.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

There are various sources available to take feedback from different stakeholders to review the activities of the institute as shown in **Figure 6.2.5**. The Principal consolidates all such feedback information and ensures that the same is available for the top management and the stakeholders to review the academic activities. After review by the management, the suggestions are taken as an input to rectify the systems to satisfy for better performance of the institution. The Principal and HoDs percolate the corrective actions in all the departments as per the policy decisions. The system of getting feedback from all the stakeholders, its review and corrective actions for the betterment of the institute.

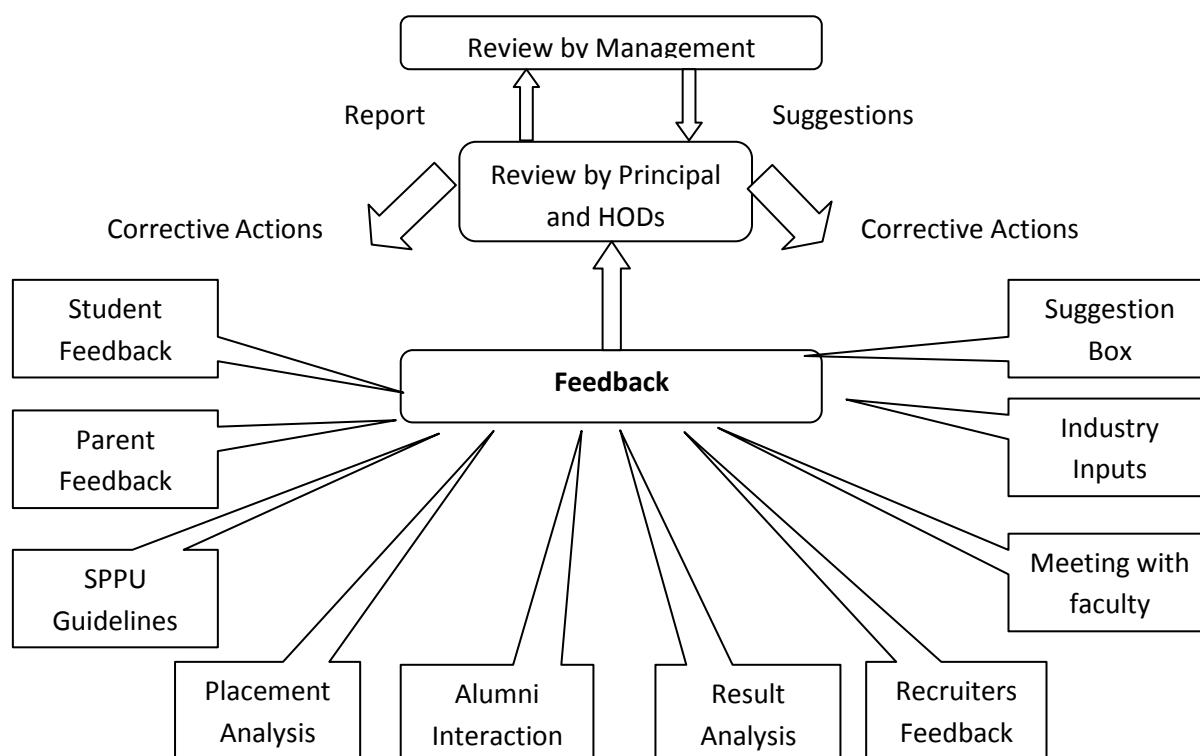


Figure 6.2.5: Sources of Feedback to Management and Stakeholder

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 involvement of the faculty and staff in improving the effectiveness and efficiency of the institutional processes by:

- Providing academic and administrative freedom to Principal and HoDs,
- Creating transparent work culture
- Giving regular increments and promotions based on their performance/qualifications
- Providing equipments and resource materials as per requirements
- Making provision of funds for participating in national / international conferences
- Sponsoring faculties to pursue Ph.D. in reputed universities
- Facilitating FDP to faculty and training to staff
- Creating awareness of research through lectures from eminent personalities
- Appreciating faculty for showing good students' academic performance
- Extending help to every individual to solve their problems

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Last Management Council meeting was conducted on 2nd Dec 2016 and the resolutions and implementation are stated as follows in **Table 6.2.7**.

Table 6.2.7: Resolutions Made by GB and its Status of Implementations

Resolution	Status
Seminar on awareness for engineering carrier.	A plan is formulated to create awareness about engineering education for students.
Develop Research culture in the institute	National conference and GRAVITY 2K17 is scheduled in Feb and March 2017 respectively.
Planning about upcoming UGC Committee	UGC selection process is scheduled in March 2017.
Annual budget from all departments for minor expensive	Departmental annual budget are prepared and submitted to Principal.

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 affiliating University has a provision for according autonomy for an affiliated institution. Currently the institute is in 8th academic year (establishment in 2009). Every year institute has continuation of affiliation to SPPU. The institute will be eligible for permanent affiliation after completing of 10 years and then eligible for applying for autonomy.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The institute ensures that grievances / complaints are promptly attended to and resolved effectively through following mechanism to analyze the nature of grievances for promoting better stakeholder relationship:

- Grievance Redressal Committees
- Anti-ragging Committee,
- Women's Grievance Cell,
- Oral and written complaints to the GFM, HoDs and Principal,
- Students' feedback of faculty,
- Suggestions through suggestion box,
- Feedback of interaction with faculty and weekly HoDs meeting with Principal,
- Weekly faculty meeting with HoD.
- Internal Complaint committee

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, no court cases filed by and against the institute.

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 institute has a mechanism for analyzing student feedback on Institutional Performance. Student feedback is taken on the following broad parameters:

- Administration
- Building maintenance
- Laboratories
- Placement cell

Other amenities like drinking water, toilets, canteen, internet and sports facilities, transportation, photocopying and internal approach. Feedback is discussed with Principal who takes immediate action to resolve the issues, where intervention of a higher order is require and the same is conveyed to the management.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the Professional development of its teaching and non-teaching staff?

The institute is committed to high quality, ongoing, and sustainable development and ensures this by facilitating learning opportunities for its faculty, staff, and administrators. This is achieved by providing a wide array of educational opportunities for employees at all levels who want to learn new skills or enhance their job performance and by promoting a culture of life-long learning for professional development.

To continuously build awareness, knowledge, skills, and on-going growth, the institute has adopted the following policies for enhancing professional skills of faculty and for encouraging research and consultancy.

Enhancement of professional skills of faculty:

- Deputing faculty for higher studies for PhD/ post-doctoral research to centers of higher learning and excellence.
- Encourage faculty to have membership of professional societies.
- Concessions are given to faculty for pursuing higher studies by way of special leave/concession in teaching load.
- Concession in fees is given to non- teaching staff pursuing higher studies.
- In-house faculty development programs are conducted to enhance professional, teaching and communication skills.
- Training programs for staff, to upgrade technical skills and English proficiency/communication skills.
- Encourage faculty to present their research work at conferences (National and International) and share their technical expertise as resource persons at workshops/seminars/conferences.
- Providing access to faculty for Internet, e-learning resources, library facilities, National and International journals, lectures of experts from reputed institutes (NPTEL) etc.
- Internal workshops are conducted to motivate staff by including components of stress management, improving interpersonal skills and creating a psychological climate conducive to professional and personal growth.
- Platform for industry interaction through I-I-I cell.
- Creating an atmosphere to promote life-long learning.

Enhancing contribution in Research and Consultancy

The policies adopted for enhancing faculty contribution in research and consultancies are as follows:

- Financial assistance is provided for attending conferences, filing patents, workshops etc.
- Facilities such as use of laboratories are provided to faculty to pursue research. A research facility is also available for facilitating experimentation and high end computing.
- Policy is implemented for distribution of Testing and Consultancy charges.
- Encouraging research by providing seed money as research grants to faculty for purchase of necessary equipment.
- Collaborative research partnerships with academic institutes and industry are encouraged and fostered. Student and teacher projects are carried out from companies.
- Implementing a policy for distribution of Testing and Consultancy charges to motivate faculty for providing consultancy.
- Faculties with an aptitude for research are identified. Seed money is provided to faculty to implement their research project. More experienced faculty are encouraged to apply and obtain research grants from various Government and non- Government, research funding agencies such as SPPU (BCUD).
- Generating awareness amongst the researchers and providing support related to various proposal formats of different funding agencies, budget, purchases of

equipment and material under research schemes, account and audit of project expenditure, any additional infrastructure requirements of the researcher etc.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

The institute believes in providing a climate conducive to the professional and personal growth of faculty and motivates the faculty in striving for excellence. It is achieved in the following manner:

- Verticals have been identified relevant to each department. Each vertical has a mentor, a senior faculty with demonstrated expertise in that domain. The mentor guides faculty teaching that subject, under the vertical, regarding depth and breadth of the subject to be taught, identifies areas to be strengthened and suggests remedies for the same. This enables the faculty to teach effectively.
- Identifying training needs through interactions at level of institute and department (through interactions of mentors with faculty) before the commencement of the academic year.
- The identified training needs are met through internal training programmes/FDPs/ Seminars/Workshops at reputed institutes and in the industry.
- Before commencement of teaching, subject coordinator/senior faculty conduct FDP for faculty of a particular subject in order to form a common strategy for teaching-learning, share techniques of classroom teaching and to prepare necessary study material for students.
- Orientation programs/induction programs are conducted for newly joined faculty to acquaint them with academic and administrative processes adopted for realizing the institute's vision and mission
- Regular meetings, informal discussions, interaction between teachers of different disciplines, interdisciplinary seminars etc. bring clarity and motivate faculty to discharge their roles and responsibilities effectively
- Identifying training needs for staff/ lab assistants/ technical assistants and planning and arranging internal training programs to meet the identified needs/deputing them for external training programs.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

Performance appraisal forms are separately designed for each cadre of faculty addressing contributions appropriate for the cadre. Every faculty member submits a performance appraisal, designed to capture the performance in all spheres, academic or otherwise. The college addresses all the issues related to appraisal system of the staff and regularly evaluates it. The performance appraisal is divided into three categories:

Category I: Self-Appraisal Report

- Providing information regarding faculty participation in training programs, co-curricular and extracurricular activities, and contribution at the department/institute level.
- Performance regarding academic processes (lectures engaged, performance of results, student's feedback)

Category II: Reviewer's report assessed by head of the department based on the following performance indicators.

(i) Department Level

- Teaching, Learning and Evaluation related activities
- Seminars/training programs attended/conducted
- Participation in extracurricular and co-curricular activities
- Administrative and general functions
- Contribution to R&D activities

(ii) Institute/University level

- Contribution at institute and University level (examiner, paper setter, moderator, member of a squad, subject expert etc.)

Category III: Assessment by head of the institution

- Remarks and assessment by Principal. Performance appraisal forms are separately designed for each cadre of nonteaching staff (technical assistant, store clerk and peon) addressing contributions appropriate for the cadre. Each staff submits his/her performance appraisal. Performance is assessed and reviewed by the head of the respective department.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

The outcome of the review of the performance appraisal reports of faculty and staff are as follows:

- Annual increments and promotions
- Appreciation letters based on the performance
- Monitoring of improvement in faculty performance
- Official memos/warning letters for the unsatisfactory performance

Communication of appraisal reports to the stakeholders is as follows:

- Performance appraisal forms of faculty and staff with comments of AMC are given to the management
- Official memos are given with details of parameters in which the faculty /staff is lagging with expected improvements

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?

(a) **Welfare schemes** available for teaching and non-teaching staff are as follows:

- Transport facility is available to staff
- Group insurance is given to all staff
- Fee in installment is given to children of faculty and staff
- Formation of Credit Cooperative society
- Residential facility for non teaching staff

(b) **Provision for EPF** is made for employees.

(c) **Financial assistance** is provided to staff to pursue higher studies.

(d) **Financial assistance is also provided to needy students under the scheme “Earn and Learn”.**

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The institute has been taking efforts to attract and retain, qualified and experienced faculty in the institute in following ways:

- The pay scale, DA, HRA are given as per the government norms
- Promotions are given for well deserving faculty and staff
- Sponsorship is given for higher education
- Financial assistance is provided to attend FDPs, workshops, seminars etc.
- Healthy and transparent culture across every department
- Appreciation of good performance of faculty and staff
- Freedom of thoughts and ideas with higher authorities
- Value given to the teacher as a nation building person

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 institutional mechanism for efficient use of available financial resources is very systematic and sound. It is mechanized in following way:

- HoD prepares annual requirement of the department in consultation with laboratory in-charges and senior faculty members. They provide non-recurring, recurring, maintenance as well as new requirements expenditure after rigorous discussion. HoD aggregates this expenditure and present the details in prescribed format to the Principal.
- Principal approval is put into institutional budget for LMC recommendation. LMC and Principal recalculate the proposed collective institutional budget and arrange them on priority basis.
- GB studies the annual expenditure and provides feedback for efficient annual expenditure.
- Once the budget is approved, the procedure of quotations, comparative analysis, delivery, payment undertaken.
- Principal with HoD conducts review with central store and account section of institute on the purchase assessment.
- Review by LMC and GB are done semester wise or yearly.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The institute has mechanisms for internal and external audit. Internal audit is carried out periodically. External audit is carried out once in a year. External Auditor verifies all receipts and expenses bills, payments of the Financial Year (FY). The last external audit of FY 2015-16 was carried in October 2016. There were no major objections in balance sheet assessment.

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 sources of institutional receipts are tuition and development fees of the students. It meets salary and other expenses. Copies of audited statement for last four years are available. Any shortfall/deficit is managed by taking assistance from the trust office.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

The institute received grants from BCUD-SPPU as an additional funding for research activities. Details of these grants are given in table 3.2.6 of criterion III.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If “yes”, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

No, IQAC has been proposed in AY 2017-18. Currently the TLP is monitored and governed by the AMC. The primary aim of the AMC is to improve TLP which leads to improve the academic and administrative performance of the institution. Existing policies on academic regarding TLP, academic performances, Faculty recruitment policies, faculty training program geared toward improving and maintaining quality. The structure of AMC is shown in *Figure 2.3.2, Criteria II*.

b. How many decisions of the IQAC have been approved by the management/authorities for implementation and how many of them were actually implemented?

Not applicable.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Not applicable.

d. How do students and alumni contribute to the effective functioning of the IQAC?

IQAC will work in close loop system with faculty, staff, students, alumni, and management for developing a unique work culture in the institute. *Figure 2.3.2* gives an overall idea for effective functioning of the IQAC. Students and alumni can contribute through their constructive suggestions as follows:

Students

- Teaching Quality
- Teaching Learning Process
- Laboratory Equipment

- Infrastructure
- Activities to be carried out

Alumni

- Employability
- Course contents
- Industry requirement
- Infrastructure required for higher studies

e. How does the IQAC communicate and engage staff from different constituents of the institution?

AMC members consist of representatives from all the departments of institute like HoD, senior faculty, administrative office representative and they are involved directly or indirectly in effective function of AMC. Progress of various departments is accessed and monitored by AMC members. Decision on any shortfalls is circulated to all faculties through HoD and gets it implemented.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If “yes”, give details on its operationalization.

Yes, the institution has an integrated framework for quality assurance of academic and administrative activities. This integration is achieved through AMC. The members of AMC follow the defined strategies and conduct the meetings on regular basis to achieve stated goals of the institute. The AMC conduct review of effectiveness of implementation of quality process.

Function:

- Development of quality parameters and benchmarks for the academic and administrative activities of the institution.
- Acquire feedback from stakeholders with respect to quality parameters.
- Suggest remedial actions/ plans to improve academic and administrative activities of the institution
- Dissemination of information of expected quality in education systems by AICTE/UGC/DTE/SPPU/KJCOEMR.
- Document verification of quality parameters / activities leading to quality improvement.
- Acting as a nodal agency of the institution for imparting quality related activities.

Mechanism: AMC aims to maximize the quality outcomes of the institute in terms of:

- Academic performance
- Placement scenario
- Research contribution by faculty and students
- Overall satisfaction of stakeholders: Society, Industry, Alumni, Parents, etc.

6.5.3 Does the institution provide training to its staff or effective implementation of the Quality assurance procedures? If “yes”, give details enumerating its impact.

Yes, the institution provides training to its faculty and staff for effective implementation of the quality assurance procedures. The AMC analyses faculty & staff and suggests remedial actions of trainings for ensuring timely, efficient, and progressive performances in academics, administration, and development of the institute.

6.5.4 Does the institution undertake Academic Audit for other external review of the academic provisions? If “yes”, how are the outcomes used to improve the institutional activities?

Yes, the institution undertakes an academic audit for other external review of the academic provisions. External committees like DTE, LIC has visited to institute and their suggestions on TLP, infrastructure, academic activities helps institute to improve performance of institute. The outcome of this feedback will improve continuously in self development and in totality the improvement of institutional activities.

6.5.5 How is the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The requirements of internal quality assurance mechanisms are currently defined by AMC in association with the standard guidelines given by AICTE/UGC/DTE/SPPU. The analysis and suggestions by AMC based on defined guidelines are benefiting the institutional progress in quality education and research. It ensures transparency in faculty, staff, and management with respect to objectives towards attainment of vision and mission of the institute.

AMC creates a mechanism to integrate various academic activities, enhance supportive administrative tasks, and effectively communicate to achieve quick actions and gets an impact on quality objectives of the institute.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Currently, AMC is monitoring all the academics, student feedback, and overall TLP to achieve maximum academic performance of the students. Guidance of advisors in terms of teaching load distribution, new faculty recruitments, and procurement of new equipment & library books is always helping the individual department to improve their performance. Faculty and staff appraisals are also looked after by AMC, where it not only monitors the performance of individual faculty but also guides them to achieve their own objectives.

Principal, Dean Academics, Heads and Academic Coordinator of the departments take continuous review of TLP in the institute. Before commencement of the term, academic calendar is prepared. Faculty prepares lecture planning for the entire semester and all the coordinators ensure that the activities are conducted as per schedule.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms, and outcomes to the various internal and external stakeholders? Any other relevant information regarding Governance Leadership and Management which the Institute would like to include.

Institute communicates its quality assurance policies, mechanisms and outcomes to the stakeholders through institute's Vision and Mission statements. These statements are displayed on institute website, display boards etc. The objectives of technical education and institute's methodologies to achieve it are conveyed to the students, parents through induction programmes, various events etc.

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CRITERION VII: Innovations and Best Practices**7.1 Environmental Consciousness**

The institution responds to sensitive issues like climate change and environmental issues. It adopts environment friendly practices and takes necessary actions such as – energy conservation, rain water harvesting, waste recycling, carbon neutrality etc.

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

A green audit of the institute building was carried out in the year May 2015 by Environmental Engineering Cluster of Civil Engineering department and in August 2017. The audit has been carried out on the basis of overall environmental management, procurement policy, energy management, materials management, water, and wastewater management etc. The status and short-falls in existing light energy of the institute were identified. An audit of natural light and illumination, as per Indian standard norms, for good visibility was carried out.

Other factors contributing to lighting were studied and suitable remedial measures were suggested and implemented. Some of the factors and their remedial are as follows:

- All tube lights are kept clean
- Awareness through displays “Please Switch Off Lights & Fans While Not in Use – Energy Saved is Energy Generated ”
- Fans and tube lights near windows curtailed
- Less efficient water pumping units were replaced by energy efficient units with Bureau of Energy Efficiency standards
- The college campus is nurtured with plenty of trees.
- The trees and lawns are maintained with water drips and sprinklers respectively.
- The hostel in college campus is proposed to be fitted with solar water heaters.
- Creating awareness among the young generation to protect and save the environment through NSS and “SWACHHA BHARAT ABHIYAN”.

7.1.2 What are the initiatives taken by the Institute to make the campus eco-friendly?

The college is very eco-conscious and takes quite number of initiatives to maintain an Eco – friendly campus.

A) Energy Conservation:

With regard to energy conservation, the college ensures the electrical gadgets are well-maintained, particularly UPS batteries, air conditioners are serviced periodically and maintained. The various awareness programmes are conducted at the institute for energy conservations such as WORLD water day – 22nd March, Earth hour day – 29th March, Ozone day – 16th September.

- Energy Saving boards with the following captions are posted in Every classroom
 - ✓ SAVE ELECTRICITY
 - ✓ TURN OFF FANS AND TUBES AFTER USE.
- Safety rules are provided in all transport vehicles
- Generator maintenance is done periodically to keep it ship-shape and ready for use.

- College does Energy audit once in a year.

B) Use of renewable energy:

- Steps are being taken for the utilization of solar power in the college campus.
- Solar Street lights are proposed within the campus.

C) Water harvesting:

- Monsoon run of roof top water and hill water is collected and used for garden irrigation.
- For water harvesting survey has been carried out and storage tanks are constructed in campus.
- The trees and lawns are maintained with water drips and sprinklers.
- Reuse of waste water for gardening.

D) Efforts for Carbon neutrality:

- Every building in the campus is surrounded by trees and lawns, number of trees have been planted in the campus
- Emission test certificates are mandatory for the vehicles in the campus.
- Cigarettes and tobacco products are strictly banned within the campus
- Vehicular movements are restricted inside the campus except few VIP cars.
- The vehicle parking arrangements have been kept at sufficient distance from central campus of college which helps in keeping campus pollution free.
- Minimum use of Air Conditioners in laboratory and cabins.
- Adopted a practice to switch off air conditioners at least half an hour before leaving workplace.
- Dead leaves are not allowed to put on fire. It is handover to the farmer for decomposition purpose.

E) Plantation:

- Planting trees is an integral part of the activity of the NSS of the college and nearby villages during NSS winter camps
- The nourishing and watering of the saplings are taken care by the expert gardeners.
- NSS unit is also carrying out tree plantation as regular activity in campus.
- Faculties and students are encouraged to plant trees inside the campus on special occasions shown in **Table.7.1.2.**

Table 7.1.2: Plantation Details

SN	Year	Total number
1	2013-14	120
2	2014-15	220
3	2015-16	40
4	2016-17	40
5	2017-18	100

F) Hazardous Waste Management:

- The everyday regular waste of the college does not include hazardous waste. The solid waste is handled by the usual methods.

- In Chemistry laboratory very dilute solutions are used for first year engineering practical, it does not create hazardous waste. The students are instructed & provided for minimum use of hazardous chemicals in these laboratories.
- The chemical waste from the chemistry laboratory is diluted before dispose.

G) E-Waste Management:

- The life of the electronic items is extended by proper maintenance and taking care of minor repairs by the lab technicians.
- All the miscellaneous e-waste such as CDs, batteries, fluorescent bulbs, PCBs and electronic items are collected from every department and office, and delivered for safe disposal.

7.2 Innovative Practices**7.2.1. Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.**

For the excellence of academics and administration, institute has implemented various innovative practices such as:

I. Innovative Practices for Students:

Certificate Course: Motivated students to do various certificate courses from last four years. Technical Boot Camps are conducted in campus for all department students. Students gained theoretical and practical knowledge through these courses. Also, students are encouraged to do certificate courses from Spoken tutorials organized by IIT Bombay, to participate courses provided by NPTEL etc.

Tie-up with Industries: Institute has signed MoUs with various industries for sharing the interactions with the students in order to know latest happenings in technology across the globe. This also helps for industrial visits, projects and utilizing industrial expertise as a mentor.

Students Scholarships: We encourage bright, meritorious and needy students to get KJEI trust scholarship.

Improving Leadership Qualities of Students:

We are encouraging our students to improve their leadership qualities by participating in various events in campus and outside campus like GRAVITY, NSS, Avishkar, BAJA etc.

II. Innovative Practices for Staff:

Appreciation of staff: The institute acknowledges the efforts taken by the faculty for academic excellence.

Uniform Filing System: All the departments are following uniform file system for documentation. It helps to specify and retrieve the desired information effectively.

FTP Server: Institute provides FTP Server to access to all staff and student. FTP server contains software and various study resources which are useful to improve the knowledge.

7.3 Best Practices

7.3.1 Elaborates on any two best practices in the given format, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

Best Practices I

Feedback system and faculty appraisal

Goal: To build up an online feedback system, from students for faculty, and to facilitate teaching learning process. The objectives of these systems are as follows:

- To develop and establish a computerized online students' feedback system
- To develop and adopt the standardized questionnaires, which is time tested
- To provide students feedback about faculty, twice in a semester
- To counsel the faculty to improve the performance

The Context: Teaching learning is a process which also depends on time scale. A teacher is to be accepted by students over a period of time and it depends on the performance of a teacher in the class room, which can be measured based on certain standard questionnaires. Since many of the faculty members requires time to develop the teaching skills, which may affect the results of students. In order to keep a check on the process and to facilitate teachers, an online feedback system is developed.

The Practice: A standard set of questionnaires (*Table 7.3.1*) are prepared with three options for each question. These questionnaires are adopted in a Google form and a link is created for each class (say Mech. /SE-A). On a particular day, a particular class is taken to computer center; a link address is written on board and will be used by each student and tick mark the appropriate option provided for each question. Upon submission of this form, the feedback of that student gets registered.

Evidence of Success: The feedback is taken once after 3 to 4 weeks of start of a semester and the faculty is given the performance index (PI) sheet. Based on the shortfalls observed by students (rather students expect an improvement in these attributes), the faculty has to improve upon. For the same, they are counseled by either Principal, along with HoD. This improvement must be visible in the second feedback, which is taken just before the end of semester. The data shows there is improvement in the faculty because of this feedback system and facilitating teaching learning process.

Problems Encountered and Resources Required: Sometimes failure of internet causes the difficulty, because when students are sitting in front of computer unable to fill the online form. They may have to come next time which may cause delay.

Table: 7.3.1 Format used for summarizing feedback

KJCOEMR		Dept: FE	
Summary of Online Feed Back from Students		FB-2 Mar -2017	
(Strictly confidential and for internal use for improvements and for Faculty only)			
4.Engg. Mechanics / _		Class: FE-A	
No of Students Present p = 37		Class Strength (d)	38
		% based on p	PI
Q1. Has the teacher given you the lesson plan for the entire semester in the first week of teaching?	YES (a)	36	97%
	NO (b)	1	3%
	DON'T KNOW (c)	0	0%
		96	
Q2. Has the teacher given you question bank for the forthcoming class-test, in advance?	YES	37	100%
	NO	0	0%
	DON'T KNOW	0	0%
		97	
Q3. Does the teacher conduct the class exactly as per the time table?	ALWAYS	34	92%
	MANY TIMES	3	8%
	SOME TIMES	0	0%
		94	
Q4. Does the teacher engage all classes regularly?	ALWAYS	34	92%
	MANY TIMES	3	8%
	SOME TIMES	0	0%
		94	
Q5. How is the handwriting / drawing of the teacher on the blackboard?	GOOD	35	95%
	AVERAGE	2	5%
	POOR	0	0%
		95	
Q6. Does the teacher interact with you in the class?	ALWAYS	35	95%
	MANY TIMES	1	3%
	SOME TIMES	1	3%
		94	
Q7. Is the teacher audible in the class?	VERY MUCH	25	68%
	OK	10	27%
	POOR	2	5%
		83	
Q8. Does the teacher explain the concepts to you properly?	ALWAYS	34	92%
	MANY TIMES	2	5%
	SOME TIMES	1	3%
		93	
Q9. Has the teacher completed lessons as per the plan given to you?	YES	34	92%
	NO	3	8%
	DON'T KNOW	0	0%
		94	
Q10. How do you rate his / her teaching?	GOOD	32	86%
	AVERAGE	4	11%
	POOR	1	3%
		91	
Summary			
		Good	34
		Average	3
		Poor	1
		93	

Sign
(Receiving Faculty on HoD Copy)

Date:

PI=Performance Index

$$PI = \frac{[(a*5)+(b*3)+(c*1)]}{[(d*5)]}$$
Note: PI will be higher if p is nearer to d. Also $p=a+b+c$

Sign (HoD)

P.T.O

Best Practices II**Employability Skill Development Programme by Zensar Technologies (ESD) ZENSAR - ESD**

Goal: The advancement in engineering & technology has not only restructured the scope of engineering education, but also redefined the expectations from engineering graduates. At institute, a need was identified to start an innovative practice “Employability Skill Development Programme” by Zensar Technologies that would help the students to build a personality equipped with technical skills and soft skills. With this in mind, a state- of-the-art ESD is being implemented from the year 2014-15. The aim of the program is to enhance the employability of the students by empowering them with skills those are required by corporate.

The objectives of the Zensar- ESD program are to:

- Enhance the employability of the students.
- Prepare students for Interviews and Technical strength.
- Prepare students in strong in Personality & Technical capacity.

The Context:

- **Integration in to the curriculum:** Training incorporated into the curriculum to help students for preparation and self - evaluation in technical and soft skills.
- **Lecture Plan:** As a part of ESD, subject wise, all lectures are taught by expert faculty from Zensar Technologies. This is a LAN based resource to help the students to learn and revisit the concepts discussed in class and Lab.
- **Expert faculty:** A good blend of class room and hands on training is provided by expert faculty.
- **Zensar assessment:** Training needs an outcome, assessed using assessment tools by Trainers during training, a test preferred by Zensar corporate Experts.

The Practice: The duration of ESD is 230 hours. It is spread over 3 semesters. The duration of ESD is from fifth semester to eighth semester. The details of the programme is given in Zensar Calendar **Table 7.3.1(e)**.

Table 7.3.1(f) Zensar Technologies - Employability Skill Development Program - Calendar for K J College of Engineering & Management Research

SN	Activity	Duration	Calendar Dates	Syllabus	Remarks
1	Initial Selection	1 Day	JAN / Feb Each Yr	Aptitude Test & G D	Presentation
2	Soft Skill Training	5 Days [30 Hrs]	Feb March Each Yr	Communication Skills	Saturday Sunday
3	Technical Training	14 Days [100 hrs]	1 st June to 15 June	Java, Dot Net , SQL	Vacation Time
4	Final Interview	1 Day	Sept each Year	All Training content	
5	Offer Letter	NA	October Each Year	NA	
6	Advanced Training	14 Days[100 Hrs]	1 st Dec to 15 th Dec	Adv Java, Dot Net ,	Vacation Time
7	Joining		September		

	ZENSAR			
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Evidence of success: Implementation of ESD has shown remarkable effect on placement activities. Students are able to crack professional examinations conducted by other industries too. This unique activity is appreciated by industries and alumni, which has improved placement shown in **Table 7.3.1(f)**.

Table 7.3.1(g) Student placement

SN	Academic Yr	Training No of students KCOEMR	Interview shortListed	KJCOEMR Placed
1	2014-15	40	22	06
2	2015-16	27	18	05
3	2016-17	38	16	08
	Total			19

Problems Encountered and Resources Required: The ESD is required to be conducted in parallel with regular academics on Saturdays and Sundays too. Therefore, extra sessions from industry experts are normally arranged on weekends in the month of Feb/March. Convincing the students to attend such sessions is really a challenging task. Industry experts and corporate trainers are available only on weekends.

However, it is necessary to give ESD inputs to the students to cope up with industrial requirements and make them ready for placement. Introduction of ESD have solved majority of these problems with free of cost and removed unnecessary financial burden on the students. This has also motivated the students to attend sessions even on weekends, vacations and holidays.

The institutional resources required to conduct ESD are as follows:

- Budgetary requirement for Expenses on Trainers Hospitality.
- Classroom with LCD and multimedia facility.
- Software for Java SQL and Dot Net.
- Internet facility to conduct Online Tests.
- IT infrastructure for hands on training.
- Library with necessary e-resources, journals, and books.

Best Practices III

To impart the entrepreneurship and self-employment skills among students under EDC.

Goal

- To create entrepreneurship awareness among the young engineering graduates.
- To arrange Entrepreneurship Awareness Program (EAPs) periodically to the Third and Final year students.
- To conduct technical seminars relevant to Entrepreneurship.
- To arrange Seminars & Interaction with successful Entrepreneurs.
- To motivate students to undergo Entrepreneurship Development Program (EDP), skill development, training and enhance self-employment opportunities.

The Context: In the present context, as per the scenario, only limited numbers of engineering graduates are employable. This is indicative of lack of employability amongst the engineering graduates. It is essential that the information need to be converted into knowledge and knowledge in to the skill set. With the use of latest tools and the technical skills would definitely enhance the employability and the confidence in engineering graduates. As there are many avenues as per the new policies of Government of India like Digital India, Make in India and the supports like National Skill Development Corporation, students can acquire necessary skill set and support to start their own start-up.

The Practice

- Taking these problems in to account, the institute has set up EDC during 2014-2015.
- Arranging the seminars/workshops for students from well known entrepreneurs working in various fields and experts from banking sector as well. The institute has conducted many workshops and entrepreneurs also interacted with our students and various programs were organized providing opportunity of direct interaction with senior entrepreneurs.
- EDC invites entrepreneurs and encouraging alumni who are entrepreneurs to share their experiences with existing students.
- Providing infrastructural facilities like office space, system with net connectivity etc.
- Promoting the innovative idea for conversion into product.
- Promoting and deputation of faculty to attend workshops/ STTP on Entrepreneurship Development.

Evidence of Success

During the last three years, many students of the institute have emerged as entrepreneurs and started their own firms listed in the **Table 7.3.1(g)**

Table 7.3.1(h) List of the Entrepreneurs from institute

SN	Entrepreneur Students	Company Name
E&TC Department		
01	Mr. Dinesh Ankam	Manufacturing of LED Bulb & Electronics goods, Pune
Mechanical Department		
01	Mr. Jayawant Pawar	A J Enterprises, Pune
02	Mr. Prasant Wandeekar	Dhanashri Enterprises, Pune
03	Mr. Onkar Deglurkar	KMD Enterprises, Pune
04	Mr. Pratik Jagatap	PCJ Industries Pvt. Ltd, Baramati
05	Mr. Prabhakar Khese	Prabhakar Enterprises, Pune
06	Mr. Govind Verma	BMB Jeweller, Dhule
07	Mr. Akshay Hole	Flawlell Dance Studios, Pune
08	Mr. Swapnil S. Tapale	Bhandara Prasad Kendra, Jejuri, Pune
09	Rohit Shinde	Owner of Lift Room company
10	Pratik Dhumal	Engine Ensign Research Agency Pvt.LTD
11	Jeetendra Chaudhari	Engine Ensign Research Agency Pvt.LTD
12	Onkar Deglurkar	KMD Enterprises
Civil Department		

01	Mr. Bhaskar Pawar	PMC Contractor
02	Mr. Nikhil Chavan	Contractor
Computer Department		
01	Mr. Pawan Renuse	Progix Technology, Pune
02	Mr. Aniket More	Tech-Buzz Solution, Pune
Electrical Department		
01	Mr. Pravin Zagade	Director and Marketing manager at Sunrisers Energies Solution Pvt. Ltd.

Problems Encountered and Resources Required

- As per the University calendar, academic schedule of the students is tight and they can hardly give additional time for the activity. Institute has provided infrastructure for extended hours.
- Most of the students are interested in placements than to go for self employment. Institute plans to have sharing of success stories and motivational talks by eminent businessmen.
- Some of the students, especially from rural area have financial constraints. The institute plans to inculcate financial literacy by providing information about funding agencies.
- Students are lacking in presentation and professional skills. Institute organizes the sessions on soft and professional skills.

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Department of Electronics & Telecommunication

1. Name of the Department : Electronics and Telecommunication Engineering
2. Year of Establishment : 2009-10
3. Names of Programmers / Courses offered (UG, PG, etc.)

Name of programme	Year of Establishment
UG-FE Intake-60	2009-10
UG-DSE Intake-60	2013-14

4. Names of Inter disciplinary courses and the departments/units involved:

SN	Class	Inter Disciplinary Courses	Departments involved
1	SE	Applied Mathematics-III	Engg. Science

5. Annual/ semester/choice based credit system (Programme wise):
UG: Semester Pattern (FE & SE Credit system, TE & BE % marks system)

6. Participation of the department in the courses offered by other departments:

SN	Class	Courses	Departments involved
1	FE	Basic Electronic Engineering	Engg. Sci.
2	SE	Electrical & Electronics Engineering	Mechanical Engg.
3	TE	Advanced Micro controller & its Applications	Electrical Engg.

7. Courses in collaboration with other universities, industries etc.: NIL
8. Details of courses/programmes discontinued (if any) with reasons: NIL
9. Number of teaching posts

Teaching Post	Sanctioned	Filled
Professors	3	0
Associate Professors	7	1
Asst. Professors	19	12
Adjunct Professors	-	1

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. Ph.D./M.Phil.etc.,)

SN	Name	Qualification	Designation	Specialization	Exp
1	Mr. Pramod U. Chavan	MTech and Ph.D. pursuing	Asso. Professor	Microwave	14
2	Mrs. Ashwini A. Kulkarni	ME and Ph.D. pursuing	Asst. Professor	Digital Systems	10

3	Mrs. Pranjali P. Deshmukh	ME	Asst. Professor	VLSI & Embedded Systems	8
4	Mrs. Madhuri R. Deore	ME	Asst. Professor	Digital Systems	5
5	Mrs. Shilpa J. Kale	ME	Asst. Professor	Digital Systems	11
6	Mr. Prasad N. Maldhure	ME	Asst. Professor	Signal Processing	4
7	Mr. Vivek D. Ghanekar	ME	Asst. Professor	VLSI & Embedded Systems	8
8	Mr. Akshay B. Chandgude	ME	Asst. Professor	Digital Systems	4
9	Mr. Kiran K. Thoke	ME	Asst. Professor	Communications	8
10	Mr. Rahimraja G. Shaikh	MTech	Asst. Professor	Digital Electronics & communication	4
11	Ms. Rutuja R. More	ME	Asst. Professor	E&TC	8
12	Mrs. Nutan V. Awalkar	ME	Asst. Professor	E&TC	6.5
13	Ms. Tai M. Gore	ME	Asst. Professor	E&TC	1
14	Mr. Padmakar W. kelkar	PhD	Adjunct Professor	E&TC	43

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NIL

13. Student-Teacher Ratio (programme wise)

S N	Student teacher ratio	Degree (UG)
1	No of students	6:1
2	Professor	00
3	Associate Professor	01
4	Asst. Professor	12
5	Adjunct Professor	01

14. Number of Academic support staff (technical)and administrative staff; sanctioned and filled

Academic Support Staff	Sanctioned	Filled
Technical and Non Technical	4	2

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

SN	Qualification	No. of Teaching Faculties
1	PhD	1
2	ME(PhD pursuing)	2
3	ME	11
4	ME pursuing	0

16. Number of faculty with ongoing projects from**a) National: NIL****b) International funding agencies and grants received: NIL****17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL****18. Research Centre/ facility recognized by the University: NIL****19. Publications:****a) Publication per faculty**

SN	Name of Faculty	No. of papers published in peer reviewed Journals	Number of publications listed in International Database	Monographs	Chapter in Books	Books Edited	Books with ISBN/ISSN n	Citation Index	SNIP	SJR	Impact factor	h-index
1	Mr. Pramod U. Chavan	5	7									
2	Mrs. Ashwini A. Kulkarni											
3	Mrs. Pranjali P. Deshmukh		4									
4	Mrs. Madhuri R. Deore		2									
5	Mrs. Shilpa J. Kale		2									
6	Mr. Prasad N. Maldhure		2									
7	Mr. Vivek D. Ghanekar		1									
8	Mr. Akshay B. Chandgude	1	1									
9	Mr. Kiran. K. Thoke		2									
10	Mr. Rahimraja. G. Shaikh		1									
11	Ms. Rutuja R. More	3	1									
12	Mrs. Nutan V. Awalkar											
13	Ms. Tai M. Gore											
14	Mr. Padmakar W. Kelkar											

b) Publication per Student: 40**20. Areas of consultancy and income generated: NIL****21. Faculty as members in****a) National committees b) International Committees c) Editorial Boards....**

SN	Name of Faculty	National committees
1	Mr. P. U. Chavan	IETE,ISTE
2	Mrs. P. P. Chavan	IETE
3	Mrs. A. A. Kulkarni	IETE
4	Mr. S. M. Elgandelwar	IETE
5	Mr. S. Yerram	IETE
6	Mrs. P. P. Deshmukh	IETE
7	Mr. V. D. Ghanekar	IETE
8	Mr. R. G. Shaikh	IETE
9	Mr. R. K. Undegaonkar	IETE
10	Mrs. S. J. Kale	IETE

22. Student projects**a) Percentage of students who have done in-house projects including interdepartmental/programme**

SN	Year	No. of In-house Projects	% of In-house Projects
1	2016-2017	30	97
2	2015-2016	43	100
3	2014-2015	14	75
4	2013-2014	15	75
5	2012-2013	8	80

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

SN	Year	No. of Projects in Collaboration	% of Projects done in Collaboration
1	2016-2017	1	3
2	2015-2016	--	--

3	2014-2015	4	25
4	2013-2014	4	25
5	2012-2013	5	20

23. Awards/Recognitions received by faculty and students

a) Faculty: NIL

b) Student's Prizes: NIL

c) Students Appreciations

SN	Year	Name of Student	Appreciations
1	2017	Pratik More	Best Poster Award
2	2017	Prakash Gawade	Best Project Award
3	2017	Pranesh Dhaka	Best Paper Award
	2017	Prakash Gawade	Probable University topper
4	2016	Priya Ahirwar	University topper
5	2016	Priya Ahirwar	Best Paper Award
6	2016	Momin Mirza	Best Paper Award
7	2016	Divya Kunjir	Best Poster Award
8	2016	Triveni More	Best Poster Award
9	2016	Anagha kale	Best Poster Award
10	2016	Omkar Ukrande	Best Concept Award
11	2016	Rutuja Waikar	Best Concept Award
12	2016	Nilesh Raskar	Best Concept Award
13	2015	Vikas Unnikanan	Winner State level Badminton Competition

24. List of eminent academicians and scientists/visitors to the department

SN	Academic Year	Name of Visitors	Organization	Purpose of visit
1	16 th March 2017	Dr. M. S. Sutaone	Dean, Academic Affairs, COEP, Pune	Key note address NCSPCMSM - 2K17
2	September 2016	Dr. A. A. Ghatol	Former Vice chancellor, BATU	Chief guest for student orientation

3	11 th March 2016	Dr. Vijay Bhatkar	Retd from Govt	Chief Guest NCSPCM2 - 2K16
4	29 th January 2016	Dr. M. Murugan Vice Principal,	SRM VEC, Chennai, Tamil Nadu.	Speaker
5	28 th January 2016	Prof. S. K. Khedkar Chairman IETE, Pune center	IETE, Pune center	Speaker
6	28 th January 2016	Dr. S. D Nawale Principal,	NBNSCOE, Solapur	Speaker
7	September 2015	Dr. Hemant Abhyankar	Director, VIIT, Pune	Chief guest for student orientation
8	12 th June 2014	Dr G K Kharate Dean, Faculty of Engineering, UOP.	Faculty of Engineering, UOP.	Speaker
9	13 th June 2014	Dr M B Mali Professor and Head, E&TC Department, SCOE	SCOE, Pune	Speaker
10	13 th June 2014	Dr. Arti Khaparde Professor of E & T/C, MIT, Kothrud, Pune	MIT, Kothrud, Pune	Speaker
11	14 th June 2014	Dr Y. Ravinder, Professor and Head, E&TC Department	PICT, Pune	Speaker

25. Seminars/ Conferences/Workshops organized and the source of funding:

A) National:

a) Conferences

SN	Conferences organized	Date	National/ International	Source of funding
1	2nd National Conference on Signal Processing ,Computer Modeling, Structural and Mechatronics (NCSPCMSM-2K17)	16 th -17 th March 2017	National	IETE, IJCA SPPU (1,50,000/-) UBI (50,000/-)

2	Signal Processing, Computer Modeling and Mechatronics (NCSPCM2 - 2K16)	11 th -12 th March 2016	National	IETE, UBI (50,000/-), ACE Academy (30,000/-)
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b) Workshops

SN	Workshops organized	Date	Source of funding
1	"Circuit simulation and PCB Design"	1 st March 2017	KJCOEMR
2	"Antenna Array, Re configurable Antennas and Satellite Communications"	28 th -30 th January 2016	SPPU, Pune
3	Two days workshop on "Research Methodology and Mathematical Modeling with Lab VIEW"	13 th -14 th February 2015	Sponsors
4	Workshop on "Ethical Hacking"	6 th -7 th March 2014	KJCOEMR
5	Workshop on "TMT and Lab VIEW"	4 th March 2014	KJCOEMR
6	Workshop on "Lab VIEW and its Applications in AC"	6 th February 2014	KJCOEMR
7	Two days workshop on "MAT Lab and its Applications".	4 th -5 th February 2014	KJCOEMR
8	Workshop on "C++ and Java"	5 th February 2014	KJCOEMR
9	Workshop on "Ethical Hacking"	6 th – 7 th March 2014	KJCOEMR
10	Workshop on B.E. (Elex. & E&TC) Practical Exam Oct 2013.	8 th October 2013	SPPU, Pune
11	Two days workshop on "PCB design using Ultiboard"	13 th -14 th September 2013.	KJCOEMR

c) Seminars: NIL**d) Faculty Development Programme**

SN	Expert Lectures organized	Date	National/ International
1	TE (E&TC/Elex) Revised Syllabus 2012 Course under the aegis of BoS Electronics, University of Pune.	12 th – 14 th June 2014	University

B) International National:**a) Conferences: NIL****b) Workshops : NIL****c) Seminars : NIL**

d) Faculty Development Programme : NIL**26. Student profile Programme /Course wise:**

Name of the Course/ Programme	Academic Year (Graduation)	Applications Received	Selected	Enrolled		Pass
				M	F	
Electronics & Tele communication	2016-2017	Admission Process done by DTE, Mumbai, Govt. of Maharashtra	20	11	9	58%
	2015-2016		39	32	7	28%
	2014-2015		101	70	31	97%
	2013-2014		133	100	33	100%
	2012-2013		61	45	16	100%

M-Male F-Female**27. Diversity of Students**

Name of the Course/ Programme	Academic Year	% of students from the same state	% of students from the other states	% of students from abroad
Electronics & Telecommunication	2016-2017	100	--	--
	2015-2016	100	--	--
	2014-2015	100	--	--
	2013-2014	100	--	--
	2012-2013	100	--	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Exam	No. of Students				
	2012-13	2013-14	2014-15	2015-16	2016-17
GATE	5				
MBA-CET		1	1		
GRE		2		2	3
TOEFL					

29. Student progression

Student progression	Against % enrolled				2016-17
	2012-13	2013-14	2014-15	2015-16	
UG-PG		4	3	1	
Employed					
Campus Selection		1	2	1	8
Other than Campus Recruitment			3	1	19

Entrepreneurship / Self Employment			2	2	4
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30. Details of Infrastructural facilities

a) Library

Particulars	Titles	Volumes
Books		
U.G.	1000	3090
Online Journal	1	-
Printed Journal	12	-

b) Internet facilities for Staff & Students:

Internet line 50 Mbps dedicated for Computer Laboratory & WiFi connectivity

c) Classrooms with ICT facility

- Number of LCDs 3
- PA system 1

d) Laboratories:

SN	Name of Laboratory	Exclusive Use / Shared	Laboratory Manuals
1	Computer lab –I	Exclusive	Available
2	Computer Lab –II	Exclusive	Available
3	Digital logic Design Lab	Exclusive	Available
4	Comm-Lab –I	Exclusive	Available
5	Comm. Lab-II	Exclusive	Available
6	Project Lab	Exclusive	Available
7	Electronic device and circuit lab	Exclusive	Available
8	Network Power lab	Exclusive	Available
9	Broadband comm...Lab	Exclusive	Available
10	Basic Electronics	Exclusive	Available

31. Number of students receiving financial assistance from college, University, government or other agencies

SN	Type of Assistant	Agency Providing Financial Assistance	Academic Year				
			2012-13	2013-14	2014-15	2015-16	2016-17

1	Minority Scholarship	Govt	6	7	2	6	1
2	EBC Concession	Joint Director of Technical Education	40	81	108	110	59
3	Scholarship	Trust, NGO, Companies, etc.	41	70	60	64	14

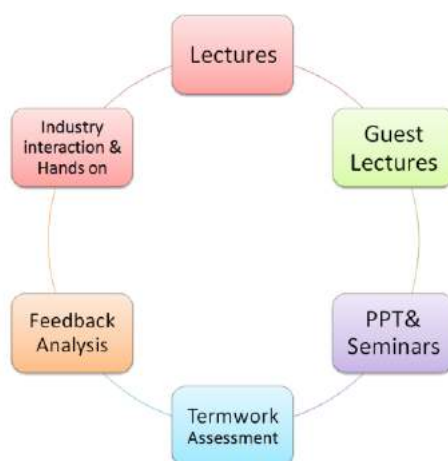
32. Details on student Enrichment Programs (special lectures / workshops / seminar) with external experts

SN	Title	Resource Person Details	Category	Date	No. of students
1	Satellite Communication	Dr. M. Murugan, Vice Principal, VEC Chennai	Expert lecture	25th February 2017	96
2	Control System	Prof. Ashwini Deshmukh, TCOER, Pune	Expert lecture	3rd March 2017	19
3	Analog Communication	Prof.P.P.Chavan, Applied Sciences Dept., KJCOEMR, Pune	Expert lecture	28 th March 2017	19
4	Campus recruitment Process	Mr.Rohit Kulkarni, Tech Mahindra ,Pune	Seminar	31st August 2016	82
5	How to Write A Research Paper and Poster	Prof.P.U.Chavan, HOD E&TC Dept., KJCOEMR, Pune	Seminar	7th February 2017	67
6	GATE Awareness	Imperial Institute of Excellence, Pune	Expert lecture	3rd July 2017	40
7	Mobile Communication and Telephony	BSNL, Pune	Expert lecture	8th September 2016.	72

8	Aptitude Session	Mr.Vikranath Sukantankar , Gyanteerath Academy Pune.	Seminar	28th July 2016	39
9	Aptitude Training Program	Mr.Vikranath Sukantankar ,Gyanteerath Academy Pune	Seminar	19th September 2016	43
10	Placement Councelling Session	Prof.Pramod Daturkar,TPO,KJCO EMR,Pune	Seminar	11th July 2016	61
11	Power Electronics	Prof.V.B.Shere,Head of E&TC dept.,Zeal College of Engineeing ,Pune	Expert lecture	5 th April 2016	80
12	Analog Communication	Dr.Suvarna Patil,Head E&TC Dept,Bharati Vidyapeeth College of Engineering ,	Expert lecture	4 th April 2016	125
13	How to Write A Research Paper	Dr. S.J. Wagh, Principal, KJCOEMR	Seminar	17 th February 2016	95
14	Digital Communication	Dr.Suvarna Patil,Head E&TC Dept,Bharati Vidyapeeth College of Engineering	Expert lecture	18 th September 2015	95
15	Random Process	Dr.S.S. Chorage ,Professor E&TC Dept,Bharati Vidyapeeth College of Engineering Womens,Pune	Expert lecture	4 th April 2015	40
16	IES Preparation	Mr. Vaibhav Srivastav, MADE EASY Education Pvt.Ltd,Pune	Seminar	6 th January 2015	100
17	Carrier Guidance through GATE	Mr.Mohit Tyagi ,GATE Coaching,Pune	Seminar	5 th Jaunary 2015	100
18	Basic Component	Mr. Vishal Nanaware, Vishaka Electronics,Pune	Seminar	5 th January 2015	50
19	Advance Networking	Mr. Madhav Pandey,NITS GLOBAL,Pune.	Seminar	2 nd January 2015	75

20	Resume writing and soft skill	Mr. Vikram Chandgude, Student Forum and Head of Training at HDFC	Seminar	April 2014	75
21	Presentation skills and communication	Mr. Vikram Chandgude, Student Forum and Head of Training at HDFC	Seminar	3 rd March 2014	75
22	Recent Methodologies for Multi vender & Multi protocol Telecommunication n/w devices	Mr. Ratndeeep Jadhav, Sr. Software Engg. Avaya India Pvt. Ltd, Pune	Seminar	11 th January 2014	75
23	Digital Image Processing	Prof. S.P.Narote, HOD(E&TC) MES College of	Expert lecture	18 th September 2014	65
24	Signal and System	Prof. K.A.Pujari, IOIT, Pune	Expert lecture	31 st August 2013	50
25	Signal Coding and Estimation Theory	Dr.M.S.Suatone, Professor, COEP,Pune	Expert lecture R	22 nd March 2013	50

33. Teaching methods adopted to improve student learning



34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Academic Year 2016-17

SN	Activities	Venue	Date	No. of Students
1	Yoga Day	KJCOEMR	20 th - 22 nd July 2016	5
2	Teachers Day & Organ Donation	KJCOEMR	06 th September 2016	7
3	Road Safety	Golibar maidan, Pune	24 th September 2016	9
4	Swatch Bharat Abhiyan	KJCOEMR	16-Aug-2016	9
5	Tree Plantation	KJCOEMR	12 th -13 th July 2016	5
6	Blood Donation	KJCOEMR	19 th July 2016	7
7	NSS Camp	Veer, Pune	25-Dec-2016	9

Academic Year 2015-16

SN	Activities	Venue	Date	No. of Students
1	Book donation	KJCOEMR	21 st June 2015	8
2	Book Donation	Zilla Parishad School, Bopgaon, Saswad.	08 th July 2015	6
3	Blood Donation On Gurupournima	KJCOEMR	31 st July 2015	10
4	Teachers day and Tribute to Dr. A.P.J Abdul Kalam	KJCOEMR	5 th September 2015	8
5	Engineers Day	KJCOEMR	15 th September 2015	8

6	Street Play	KJCOEMR	24 th September 2015	10
7	Blood Donation	KJCOEMR	03 rd February 2016	8
8	Women's day	KJCOEMR	08 th March 2016	10

Academic Year 2014-15

SN	Activities	Venue	Date	No. of Students
1	Yuva Parishad	Venue : Balewadi, Pune	19 th June 2014	4
2	Blood Donation on the occasion of Guru Pornima	Venue : KJEI, Campus, Pune	11 th July 2014	12
3	Mutha River Cleaning	Venue : Pune	22 nd July 2014	6
4	Candle March in memory of Dr. N. Dabholkar	Venue : KJCOEMR, Pune	20 th August 2014	9
5	Teachers Day Celebration	Venue : KJCOEMR, Pune	5 th September 2014	12
6	Blood Donation organised on the Birthday of our President Mr. Kalyan Jadhav.	Venue : KJEI, Campus, Pune	24 th January 2015	12
7	Ground Cleaning Preparation for Republic Day.	Venue : KJEI, Campus, Pune	25 th January 2015	4
8	Street Play on "Swach Bharat Abhiyaan" & Social Awareness	Venue : College Ground and KJEI, Campus, Pune	26 th January 2015	8

Academic Year 2013-14

SN	Activities	Venue	Date	No. of Students
1	Tree Plantation	:KJCOEMR, Pune	2 nd September 2013	8

2	Teachers Day Celebration	Venue : KJCOEMR, Pune	5 th September 2013	8
3	Blood Donation on the occasion of Guru Pornima	KJEI, Campus, Pune	22 nd September 2013	8
4	Participation in National Level (Manthan)	Delhi	28 th September 2013	8
5	Blood Donation organised on the Birthday of our President Mr. Kalyan Jadhav.	KJEI, Campus, Pune	24 th January 2014	12
6	Ground Cleaning Preparation for Independence Day.	KJEI, Campus, Pune	25 th January 2014	6
7	Street Play on Women Empowerment and Society Awareness	College Ground and KJEI, Campus, Pune	26 th January 2014	8

35. SWOC analysis of the department and Future plans:

Strengths:

- The department has well equipped laboratories with modern equipments.
- The department has developed in house experimental kits for subjects like EDC
- The department has started “Electronics Development Center” to motivate student for hands on practical projects.
- The Departmental has vibrant student forum “ETESA” and “IETE” which carries out well crafted technical programs such Gravity, Poster Presentation etc.
- The department organizes various activities like Project Competition, guest lectures, and seminars for updating technical knowledge every year.
- Signed MoU with reputed industries like BSNL.

Weaknesses:

- No major funded projects
- Less Journal Publications
- Institute lags in research activities.
- Industrial relationships..

Opportunities:

- Collaborative research work with industries
- Faculty qualification up-gradation

- Improving number of students placement in renowned industries
- Inter-disciplinary approach

Challenges:

- Upgrading the lab to suit the pace of modernization and growing technology.
- Upgrading skills of faculty to match rapid growth of Industry.
- To compete with other premier institutions.
- To place the students in core companies

Future Plans:

- Upgrading qualification of faculty
- Commencement of PG programmes
- Tie up with renowned industries
- To set up center of excellence

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Department of Mechanical Engineering

1. **Name of the Department : Mechanical Engineering**
2. **Year of Establishment : 2009 - 2010**
3. **Names of Programmes / Courses offered (UG, PG, etc.)**

Name of programme	Year of Establishment
UG (60 Intake)	2009 - 2010
UG (Additional 60 Intake)	2010 - 2011
UG (60 DSE Intake)	2013 - 2014
UG (Additional 60 Intake)	2014 - 2015
UG (Additional 60 DSE Intake)	2014 - 2015
PG (Design Engg. 24 Intake)	2014 - 2015

4. **Names of Inter disciplinary courses and the departments/units involved:**

SN	Class	Inter Disciplinary Courses	Departments involved
1	SE	Electronics & Electrical Engineering	E & TC
2	SE	Engineering Mathematics III	Engg. Sci.
3	ME I	Advanced Mathematics	Engg. Sci.

5. **Annual/ semester/choice based credit system (Programme wise):**

UG: FE/SE Semester Pattern (Credit Based System)

TE/BE Semester Pattern System

PG: Semester Pattern (Credit Based System)

6. **Participation of the department in the courses offered by other departments:**

SN	Class	Courses	Departments involved
1	FE	Engineering Graphics	Engg. Sci.
2	FE	Basic Mechanical Engineering	Engg. Sci.

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.: NIL**
8. **Details of courses/programmes discontinued (if any) with reasons: NA**

9. Number of teaching posts

Teaching Post	Sanctioned	Filled
Professors	8	04
Associate Professors	17	05
Assistant Professors	50	34

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil. etc.)

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Dr. Vyasraj Jayateerth Kakhandaki	Ph.D. M.Tech	Professor	Vibration	30
2	Dr. Suresh Babu Wadkar	Ph.D. ME	Professor	Design	33
3	Dr. S. V. Joshi	Ph.D. ME	Professor	Thermal	30
4	Dr. Satish Kadam	Ph.D. ME	Professor	Manufacturing	15
5	Mr. Lalit Shivajirao Pawar	M.Tech	Associate Professor	Heat Power	19.6
6	Mr. Chhabildas Madhukar Gajare	ME, MPM, MBA	Associate Professor	Machine Design	17.6
7	Mr. Milindkumar Sadashiv Mali	ME	Associate Professor	Design Engg	20
8	Mr. Swapnil Chaudhary	M.Tech	Associate Professor	Design	20
9	Mr. Suhas Pharande	ME	Associate Professor	Design	16
10	Mr. Abhijeet Shivaji Kabule	M.Tech	Assistant Professor	Design	8
11	Mrs. Gayatri Surendra Patil	ME	Assistant Professor	Design	9.9
12	Mr. Shrinivas S Jadhav	ME	Assistant Professor	Design	7
13	Mr. Rameez Abdul Majeed Hudli	ME	Assistant Professor	Production	7
14	Mr. Kaustabh	ME	Assistant	Thermal	7

	Vijay Chavan		Professor		
15	Mr. Sunil Ganpat Mandave	M.Tech	Assistant Professor	Heat Power	5
16	Mr. Nikhil Mohan Shinde	M.Tech	Assistant Professor	CAD/CAM	4.3
17	Mr. Mukesh Chotulal Choudhary	ME	Assistant Professor	CAD/CAM	6.4
18	Mr. Pravin Eknath Ingale	M.Tech	Assistant Professor	Industrial Engg	13.5
19	Mr. Sagar Suresh Dol	ME	Assistant Professor	Design.	9.1
20	Mr. Vinay Mallikarjun Malbhange	ME	Assistant Professor	Design.	3.1
21	Mr. Rajusing Devidas Rathod	ME	Assistant Professor	Design.	5.3
22	Mr. Ajay Gururaj Waychal	ME	Assistant Professor	Heat Power	7.5
23	Mr. Mukund Ram Manas	ME	Assistant Professor	Design	7.2
24	Mr. Nandjee Kanu	ME	Assistant Professor	Design	5.3
25	Mr. Dattatraya Ashok Shinde	ME	Assistant Professor	Design Engg	2.1
26	Mr. Patil Gopal Bharat	ME	Assistant Professor	Design.	5
27	Mr. Vaibhav Subhashrao Jadhav	M.Tech	Assistant Professor	Design.	7
28	Mr. Ganesh Bhausheb Jejurkar	ME	Assistant Professor	Design	3
29	Mr. Shivaji Tukaram Dudhabhate	ME	Assistant Professor	Design	2
30	Mr. Ganesh Suresh Sonawane	ME	Assistant Professor	Design.	6
31	Mr. Pinto John Anthony	M.Tech	Assistant Professor	Heat Power	1
32	Mr. Kundan Suresh Kolambe	ME	Assistant Professor	Heat Power	1
33	Mr. Niranjana	ME	Assistant	Production	2

	Prakash Kamat		Professor		
34	Mr. Sharanabasappa S.Jewargi	M.Tech	Assistant Professor	Heat Power	8
35	Mr. Sameer Govind. Potdar	M.Tech	Assistant Professor	Design	1
36	Ms. Snehal Suresh Mhalgi	ME	Assistant Professor	Heat Power	1
37	Mr. Sham Tawez	ME	Assistant Professor	Heat Power	4.5
38	Mr. Abhijeet Jagannath Kadam	ME	Assistant Professor	CAD/CAM	3.7
39	Mr. Md. Awes Abdul Rub Ansari	ME	Assistant Professor	Thermal Engg	1
40	Mr. Shrivastava Akash A.	ME	Assistant Professor	Design	10
41	Mr. Shinde Hrushikesh Vajjnath	M.Tech	Assistant Professor	Production	2
42	Mr. Raut Mayur Balu	M.Tech	Assistant Professor	Manufacturing	1
43	Mr. Ghogare Varsha Dnyandeo	ME	Assistant Professor	Design	1

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NIL

13. Student-Teacher Ratio (programme wise):

SN	Programme	Specialization	Student - Teacher Ratio
1	UG	Mechanical Engineering	15:1
2	PG	Design Engineering	12:1

14. Number of Academic support staff (technical) and administrative staff; sanctioned and filled:

Academic Support Staff	Sanctioned	Filled
Technical and Non Technical	12	06

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG:

SN	Qualification	No. of Teaching Faculties
1	Ph. D. Completed	04

2	ME/M. Tech Completed & Ph. D. Pursuing	12
3	ME/M. Tech Completed	27
	Total	43

16. Number of faculty with ongoing projects from**a) National Funding Agencies & Grants Received: NIL****b) International Funding Agencies and Grants Received: NIL****17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received: NIL****18. Research Centre/ facility recognized by the University: NIL****19. Publications:****a) Publication per faculty**

SN	Name of Faculty	No. of papers published in peer reviewed Journals	Number of publications listed in International Database	Chapter in Books	Books Edited	Books with ISBN/ISSN numbers	Citation Index	Impact factor	h-index
1	Dr. S. B. Wadkar	2	2	-	-	-	-	-	-
2	Dr. V. J. Kakhandki	1	1	-	-	-	-	-	-
3	Mr. P. E. Ingale		1	-	-	-	-	-	-
4	Mr. S. S. Jadhav		2	-	-	-	-	-	-
5	Mr. R. A. Hudli		2	-	-	-	-	-	-
6	Mr. S. G. Mandave		2	-	-	-	-	-	-
7	Mr. M. C. Chaudhari	-	3	-	-	-	-	-	-
9	Mr. N. M. Shinde		2	-	-	-	-	-	-
11	Mr. R. D. Rathod	-	2	-	-	-	-	-	-
13	Mr. A. G. Waychal		1	-	-	-	-	-	-
15	Mr. S. R. Hazare	-	2	-	-	-	-	-	-
16	Mr. M. R. Manas		3	-	-	-	-	-	-
17	Mr. K A. Ghavane	-	2	-	-	-	-	-	-
18	Mr. N. J. Kanu	-	2	-	-	-	-	-	-
22	Mr. G. B. Patil	-	1	-	-	-	-	-	-
23	Mr. S. R. Pawar	-	2	-	-	-	-	-	-

24	Mr. V. S. Wable	-	1	-	-	-	-	-	-
25	Mr. G. S. Sonawane	-	1	-	-	-	-	-	-
26	Mr. V. S. Jadhav	-	1	-	-	-	-	-	-
28	Mr. G. B. Jejurkar	-	2	-	-	-	-	-	-
29	Mr. S. T. Dudhbhate	-	1	-	-	-	-	-	-
32	Mr. G. S. Patil	-	3	-	-	-	-	-	-
33	Mr. C. M. Gajare	-	3	-	-	-	-	-	-
34	Mr. A. S. Kabule	-	3	-	-	-	-	-	-
35	Mr. A.M. Sawant	-	1	-	-	-	-	-	-

b) Publication per Student

SN	Name of Student	No. of papers published in peer reviewed Journals	Number of publications listed in International Database	Chapter in Books	Books Edited	Books with ISBN/ISSN numbers	Citation Index	Impact factor	h-index
1	Mr. S. A. Saraf	-	1						
2	Mr. A. A. Sankpal		1						
3	Mr. D. A. Shinde	-	1						
4	Mr. D. G. Walhekar	-	1						
5	Mr. T. J. Padave	-	1						
6	Mr. A. G. Yadav	-	1						
7	Mr. V. V. Edake	-	1						
8	Mr. T. V. Pawar	-	1						
9	Mr. D. N. Patil	-	1						
10	Ms. S. S. Udameeshi	-	1						

20. Areas of consultancy and income generated:

SN	Consultancy	Income
1	Steam Power Plant Practical	250000.00

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards d) University Committee etc

SN	Name of Faculty	Committees	Type
1	Dr. V. J. Kakhandki	SPPU Board of Studies, Mechanical Engineering	Chairman
2	Dr. S. B. Wadkar	SPPU Board of Studies, Mechanical Engineering	Member
3	Mr. L. S. Pawar	SPPU Examinations	OSD
4	Mr. L. S. Pawar	SPPU Local Inquiry Committee	Member
5	Mr. C. M. Gajare	SPPU Local Inquiry Committee	Member

22. Student projects:

a) Percentage of students who have done in-house projects including inter departmental/programme:

SN	Year	No. of In-house Projects	% of In-house Projects
1	2016-2017	46	87
2	2015-2016	44	73
3	2014-2015	24	82
4	2013-2014	16	50
5	2012-2013	12	63

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:

SN	Year	No. of Projects in Collaboration	% of Projects done in Collaboration
1	2016-2017	7	13
2	2015-2016	16	27
3	2014-2015	5	18
4	2013-2014	16	50
5	2012-2013	7	37

23. Awards/Recognitions received by faculty and students:

a) Faculty:

SN	Name of Faculty	Year of Achievement	Achievement/ Recognition
1	Dr. A. M. Kate	2013-14	BCUD research grant from SPPU of 1.90 Lakhs
2	Mr. A. S. Kabule	2013-14	Best Teacher Award
3	Mr. Abhijeet Kabule	2015-16	Student Welfare Officer Appreciation

b) Student's Prizes:

SN	Year	Activity	State/ National/ International level No. of Prizes Won
1	2012-2013	Winner of University level cricket tournament-Sept.2012	University Level
2	2015-2016	Winner in International Series of Karting	International Level
3	2015-2016	Winners in Robotics Competition, Government College of Engg, Awasari	National Level
4	2015-2016	Runner Up in Robotics Competition, VIIT, Pune	National Level
5	2015-2016	Runner Up in Robotics Competition, IIT, Madras	National Level
6	2015-2016	Winner in Robotics Competition, PVPIT, Bavdhan, Pune	National Level
7	2015-2016	Winner in Robotics Competition, PVG, Nashik	National Level
8	2015-2016	Runner Up in Robotics Competition, RGIT, Pune	National Level
9	2015-2016	Gold Medal Winner in All India University Body Building Championship, Andhra Pradesh	National Level
10	2013-2014	Winner in Roll Ball Competition	National Level

c) Students Appreciations:

SN	Year	Name of Student	Appreciations
1	2012-2013	Mr. Udaysinh Bhosale	First Rank Holder in Pune University in Third year Mechanical Engg. Exams 2012
2	2015-2016	Jaydeep Shinde & Dwayne Peirera	National Level Cycling Competitions like Cycling Expedition Asam to Gujrat, Kashmir to Kanyakumari

24. List of eminent academicians and scientists/visitors to the department:

SN	Date of Visit	Name of Visitors	Organization	Purpose of visit
1	29.11.2013	Dr. Arun Adsul	Former pro vice chancellor and member of management council, Pune University	Awareness about Career in Engg.

2	05.09.2014	Dr.Ashok Ghatol	Former VC BATU, Lonere	Research Guidance
3	11.03.2014	Mr. Sunil Mirashi	CEO, Divine Corporation, Pune	Seminar on Entrepreneurship Development
4	24.06.2014	Mr. Sunil Mali	Asst. Labor Commissioner, Pune, Govt of Maharashtra	Career in Civil Services
5	24.08.2014	Mr. Diwakar Keskar	Project Director, DST, Pune	Inauguration of EDC
6	04.09.2015	Mrs. Sindhutai Sapkal	Sanmati Bal Niketan, Pune	Social Responsibility Awareness
7	15.09.2015	Mr. Parag Karandikar	Resident Editor, Maharashtra Times	Engineer's Day
8	15.09.2015	Mr. Avinash Dharmadhikari	Founder, Chanakya Mandal, Pune	Engineer's Day
9	04.03.2016	Mr. Mukesh Jain	NICE Systems, Pune	Seminar on Entrepreneurship
10	11.03.2016	Dr. Vijay Bhatkat	Scientist, GOI	Chief Guest, National Conference
11	05.09.2016	Dr. H. K. Abhyankar	Eminent Academician, Maharashtra	Teacher's Day
12	15.03.2017	Dr. D. S. Bilgi	TSSM BSCOER Narhe	National Conference
13	09.03.2017	Dr. H. S. Patil	GTU NAVSARI	Department Visit
14	04.01.2017	Dr. Shivaji Gavali	PVG COE PUNE	Research Guidance

25. Seminars/ Conferences/Workshops organized and the source of funding:

A) National:

a) Conferences

SN	Conferences organized	Date	National/ International	Source of funding
1	Signal, Processing, Computer modeling and Mechatronics	11 th & 12 th March 2016	National	Union Bank (Rs. 50000) ACE GATE Academy (Rs. 30000)

2	Signal, Processing, Computer modeling and Mechatronics	14 th & 15 th March 2017	National	Union Bank (Rs. 50000) BCUD SPPU Pune (Rs. 160000)
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b) Workshops: - NIL

c) Seminars: NIL

d) Faculty Development Programme: 01

B) International Level:

a) Conferences

SN	Conferences organized	Date	National/ International	Source of funding
1	International Symposium on Engineering & Technology 2015 (ICDMM 2015)	11 – 13 Feb 2015	International	SPPU Pune, Sponsorship

b) Workshops: NIL

c) Seminars: NIL

d) Faculty Development Programme: NIL

26. Student profile Programme /Course wise:

Name of the Course/ Programme	Academic Year (Graduation)	Applications Received	Selected	Enrolled		Pass
				M	F	
UG MECHANICAL (SE)	2016-2017	DTE	354	351	03	Currently in TE
	2015-2016		347	344	03	Currently in BE
	2014-2015		269	264	05	Graduated
	2013-2014		209	203	06	Graduated
	2012-2013		153	152	01	Graduated

M-Male F-Female

Name of the Course/ Programme	Academic Year (Graduation)	Applications Received	Selected	Enrolled		Pass
				M	F	
PG MECHANICAL	2012-2013		NA			
	2013-2014		NA			
	2014-2015	242103Graduated				

	2015-2016		12	11	01	Graduated
	2016-2017		00	00	00	--

M-Male F-Female

27. Diversity of Students

Name of the Course/ Programme	Academic Year	% of students from the same state	% of students from the other states	% of students from abroad
UG & PG	2016-2017	100	NIL	NIL
UG & PG	2015-2016	100	NIL	NIL
UG & PG	2014-2015	100	NIL	NIL
UG & PG	2013-2014	100	NIL	NIL
UG & PG	2012-2013	100	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Exam	No. of Students				2016-2017
	2012-13	2013-14	2014-15	2015-16	
GATE	01	01	02	01	02
MBA-CET	00	01	01	00	02
GRE	00	05	03	01	01
TOEFL	00	05	03	01	01

29. Student progression:

Student progression	Against % enrolled				2016-2017
	2012-13	2013-14	2014-15	2015-16	
UG-PG	1	2	2	2	2
PG to M. Phil.	NIL	NIL	NIL	NIL	NIL
PG to Ph.D. etc	NIL	NIL	NIL	NIL	NIL
Ph.D. to Post Doctoral	NIL	NIL	NIL	NIL	NIL
Employed					
Campus Selection	5	2	1	6	2
Other than Campus Recruitment	11	5	9	4	6
Entrepreneurship / Self Employment	-	-	3	3	3
Government Sector	-	-	-	-	-

30. Details of Infrastructural facilities:

a) Library

Particulars	Titles	Volumes
Books		
U.G.	1037	3716
P.G.	44	140
On line Journal	275	NA
Printed Journal	UG 30 National PG 5 National 3 International	NA

b) Internet facilities for Staff & Students:

Internet Line of 50 MBPS is distributed in the Institute

c) Class rooms with ICT facility: 04

Class Rooms with LCD Facility: 03

Class Rooms with Audio Visual Facility: 01

d) Laboratories:

SN	Name of Laboratory	Exclusive Use / Shared	Laboratory Manuals
1	Basic Mechanical Engg	Exclusive	Available
2	Engineering Metallurgy	Exclusive	Available
3	Engineering Graphics (Drawing Hall)	Exclusive	Available
4	CAD/CAM	Exclusive	Available
5	Fluid Mechanics	Exclusive	Available
6	Industrial Fluid Power (Hydraulics and Pneumatics)	Exclusive	Available
7	Turbo Machinery	Exclusive	Available
8	Mechatronics	Exclusive	Available
9	Theory of Machines	Exclusive	Available
10	Dynamics of Machinery	Exclusive	Available
11	I.C. Engines	Exclusive	Available
12	Heat Transfer	Exclusive	Available
13	Metrology & Quality Control	Exclusive	Available
14	Refrigeration & Air Conditioning	Exclusive	Available
15	Applied Thermodynamics	Exclusive	Available
16	Steam Power Plant	Exclusive	Available
17	PG Lab	Exclusive	Available
18	Workshop	Exclusive	Available

31. Number of students receiving financial assistance from college, University, government or other agencies

SN	Type of Assistance	Agency Providing Financial Assistance	Academic Year				
			2012-13	2013-14	2014-15	2015-16	2016-17
1	EBC Scholarship	DTE	106	126	204	279	313
2	OBC/SC/ST/NT/SBC/V J Scholarship	GOVT OF MAHARASHTRA	175	103	205	309	196
3	MINORITY	CENTRAL GOVT	10	6	9	18	25

32. Details on student Enrichment Programs (special lectures / workshops / seminar) with external experts

SN	Title	Resource Person Details	Category	Date	No. of students
1	Career In PSO	Mr. Pratap Jagtap Forest Officer Government of Maharashtra	Mechanical Engineering Students	26.04.2016	60
2	Fitness Training	Mr. Akshay Patil, Fitness Trainer	Mechanical Engineering Students	28.04.2016	50
3	Meditation and Stress Management	Mrs. Sood, Soft Skill Trainer	Mechanical Engineering Students	21.06.2015	50
4	Importance of Diet	Mr. Akshay Patil, Fitness Trainer	Mechanical Engineering Students		45
5	Youth Awareness	Sangram Khade, Social Activist	Mechanical Engineering Students	02.07.2014	80

33. Teaching methods adopted to improve student learning

SN	Teaching Method
1	Class Room Teaching for Theoretical Orientation
2	Lab Work for Practical Exposure
3	Question Banks (Objective and Descriptive)
4	Lesson Plan, Practical Plan
5	Class Tests

6	Tutorials
7	Seminars
8	Project
9	Feedback Analysis
10	Department Library Facility
11	Industrial visits
12	NPTL Video Lectures
13	Power Point Presentations
14	Skill Development
15	Group Discussions

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

SN	Year	Activity
1	2015-2016	Yoga Activity
		Blood Donation
		Teachers day
		Engineers Day
		Street Play
		Ganapati Festival
		Road Safety
		Plastic Waste Disposal
		Women's day
		Engineer's Day
2	2014-2015	Jagrut Foundation Guest Lecture
		Blood Donation on the occasion of Guru Pornima
		Candle March in memory of Dr. N. Dabholkar
		Teachers Day Celebration
		Tree Plantation
		Blood Donation organised on the Birthday of our President Mr. Kalyan Jadhav.
		Swachchhata Abhiyan on Republic Day.
		Street Play on "Swach Bharat Abhiyaan" & Social Awareness
		Woman's Day Celebration
		Teachers Day Celebration
3	2013-2014	Blood Donation on the occasion of Guru Pornima
		"Women Empowerment" lecture for Womens on occasion of Navratri
		Blood Donation organised on the Birthday of our President Mr. Kalyan Jadhav.

4	2012-2013	Ground Cleaning Preparation for Independence Day.
		Street Play on Women Empowerment and Society Awareness
		Engineer's Day
		Engineer's day
		Blood Donation on the occasion of Guru Purnima
		Candle March in memory of Dr. N. Dabholkar
		Teachers Day Celebration
		Tree Plantation
		Blood Donation organised on the Birthday of our President Mr. Kalyan Jadhav.
		Ground Cleaning Preparation for Republic Day.
		Street Play on "Swach Bharat Abhiyaan" & Social Awareness
		Womens Day Celebration

35. SWOC analysis of the department and Future plans:

Strengths:

- Infrastructure
- High Intake Capacity
- Lush Green Campus
- Learning Environment
- Team Work Culture

Weaknesses:

- Less Placement
- Less Industry Institute Interaction
- Patents

Opportunities:

- Entrepreneurship Development
- Consultancy
- Skill Development

Challenges:

- Admissions
- Placement
- Faculty Retention

Future Plans:

- Skill based training to improve employability
- Inculcate research habit among faculty and students
- Fdp, sttp programmes
- Industry institute interaction

- Enhance industry institute interaction

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Department of Civil Engineering

1. Name of the Department : Civil Engineering
2. Year of Establishment : 2009 - 2010 s
3. Names of Programs / Courses offered (UG, PG, etc.)

Name of program	Year of Establishment
U.G Civil Engineering(Intake -60)	2009-10
U.G Civil Engineering (Additional Intake of 60) Total-120	2011-12
P.G Civil Engineering (Structure) (Intake -24)	2013-14

4. Names of Interdisciplinary courses and the departments/units involved:

SN	Class	Inter Disciplinary Courses	Departments involved
1	SE	Engineering Mathematics III (207001)	Engineering Science

5. Annual/ semester/choice based credit system (Programme wise):

UG: Semester Pattern (Credit system implemented for FE & SE & Percentage marks System for TE & BE).

PG: Semester Pattern (Credit System).

6. Participation of the department in the courses offered by other departments:

S N	Class	Courses	Departments Involved
1	FE	Basic Civil and Environmental Engineering (101005)	Engineering Science
2	FE	Engineering Mechanics (101011)	Engineering Science

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

Teaching Post	Sanctioned	Filled
Professors	5	0
Associate Professors	8	03
Asst. Professors	22	15

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil. etc.)

SN	Name Of Faculty	Qualification	Designation	Specialization	No. of Years of Experience
1	Mr.S. K. Patil	M.E. Ph.D. (Pursuing)	HOD Associate Prof.	Geo-tech	24
2	Mr.B.N.Mulay	M.E. Ph.D. (Pursuing)	Associate Prof.	Environmental Engineering	15
3	Mr. RiteshThakare	M.E. Ph.D. (Pursuing)	Associate Prof.	Structures	16
4	Mr.A. B. Pujari	M.Tech. Ph.D. (Pursuing)	Assistant Prof.	Structures	8
5	Mr.V. C. Hulsure	M.Sc. Ph.D. (Pursuing)	Assistant Prof.	Geology	10
6	Mrs.S.B. Hakale	M.E	Assistant Prof.	Construction Management	5
7	Mrs.P.N.Velhal	M.Tech.	Assistant Prof.	Structures	5
8	Mrs.S.T. Pawar	M.E	Assistant Prof.	Structures	5
9	Mr.A.K.Taware	M.E.	Assistant Prof.	Construction Management	6
10	Ms.S.B. Vyawahare	M.E.	Assistant Prof.	Structures	5
11	Mr.A.R.Undre	M.E.	Assistant Prof.	Structures	3
12	Mrs.R.N.Doshi	M.E	Assistant Prof.	Environmental Engineering	3
13	Mrs. K.R. Thakare	M.E.	Assistant Prof.	Structures	4
14	Mrs. S. M.Myakal	M.E.	Assistant Prof.	Environmental Engineering	6
15	Ms.S.S. Satpute	M.E.	Assistant Prof.	Structures	4
16	Ms. T.G. Langoti	M.Tech	Assistant Prof.	(Geotechnical Engineering)	1
17	Mrs.S.K.Telang	M.E.	Assistant Prof.	Environmental Engineering	5
18	Mr. A. A. Inamdar	M.E.	Assistant Prof.	Environmental Engineering	8

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) By temporary faculty: NIL**13. Student-Teacher Ratio (programme wise)**

S N	Programme	Specialization	Student-Teacher Ratio
1	UG	BE Civil	15:1
2	PG	ME Structure	12:1

14. Number of Academic support staff (technical) and administrative staff; sanctioned and filled

Academic Support Staff	Sanctioned	Filled
Technical and Non -Technical	4	4

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

S N	Qualification	No. of Teaching Faculties
1	Ph.D. (Completed)	00
2	M.E./ M.Tech, Ph.D. (Pursuing)	03
3	M.E./ M.Tech (Completed)	15
4	M.E./ M.Tech (Pursuing)	00
5	M.Phil/M.Sc,Ph.D. (Pursuing)	01

16. Number of faculty with ongoing projects from**a) National - NIL****b) International funding agencies and grants received -NIL****17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL****18. Research Centre/ facility recognized by the University: NIL****19. Publications:****a) Publication per faculty**

S.N	Name of Faculty	No. of papers published in peer reviewed Journals	Number of publications listed in International Database	Monographs	Chapter in Books	Books Edited	Books with ISBN/ISSN numbers	Citation Index	SNIP	SJR	Impact factor	h-index
1	Mr. S. K. Patil	10	2				1				0.3	
2	Mr. A. B. Pujari	2									0.41	
3	Mr. V. C. Hulsure	2									4.36	
4	Mr. B. N. Mulay	2									-	
5	Mr. A. K. Taware										-	
6	Mrs. S. T Pawar	5									0.97	
7	Mrs. S. B. Hakale	1									0.35	
8	Mr. A. R. Undre	1									1.03	
9	Ms. S. B. Vyawahare										-	
10	Mrs. R. Doshi	1									1.54	
12	Mr. A. A. Inamdar	2									0.22	
13	Ms. S. S. Satpute										0.4	

b) Publication per Student

SN	Name of Faculty	No. of papers published in peer reviewed Journals	Number of publications listed in International Database	Monographs	Chapter in Books	Books Edited	Books with ISBN/ISSN numbers	Citation Index	SNIP	SJR	Impact factor	h-index
1	Shaikh Rafat Rajmammad	1									-	
2	RanjeetMandhare	1									1.3	
3	Mohini Patel	1									-	
4	Sandip Kale	1									-	
5	Anant R Patil.	1									-	
6	Akshay Bhandari.	1									-	
7	ApurvRajendra Thorat.	1									5.181	
8	Ayush Agrahari1.	1									6.209	
9	Mr. Dhananjay G. Suryawanshi.	1									-	
10	Mr. Dhananjay G. Suryawanshi.	1									-	
11	Gargi Prabhu.	1									-	
12	Nikhil Nikam.	1									-	
13	Pavankumar K. Bhosale.	1									-	
14	PrashantJagtap.	1									-	
15	Mr.Sangramsinh U. Bhosale.	1									-	
16	Mr.Sangramsinh U. Bhosale.	1									-	
17	SanketManoharKhilar	1									-	

	e.											
18	Shailesh S. Thorve.	1									-	
19	Mr. Toshant P. Kapse.	1									-	
20	Vijay Gunde.	1									-	

20. Areas of consultancy and income generated:- NIL

21. Faculty as members in

a)National committees b)International Committees c)Editorial Boards....

SN	Name of Faculty	National committees
1	Mr. S.K.Patil	ISTE
		ISH

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

SN	Year	No. of In-house Projects	% of In-house Projects
1	2017-2018	24	100
2	2016-2017	27	100
3	2015-2016	20	100
4	2014-2015	10	90
5	2013-2014	10	100
6	2012-2013	10	100

**b) Percentage of students placed for projects in organizations outside the institution
i.e. in Research laboratories/Industry/ other agencies**

S.N	Year	No. of Projects in Collaboration	% of Projects done in Collaboration
1	2017-2018	0	0
2	2016-2017	0	0
3	2015-2016	0	0
4	2014-2015	0	0
5	2013-2014	1	10
6	2012-2013	1	5

23. Awards/Recognitions received by faculty and students

a) Faculty:

SN	Name of Faculty	Year of Achievement	Achievement/ Recognition
1	Mrs. S. Lohote	2014-15	2nd rank in PGCON
2	Mr. P. Minde	2013-2014	Appreciation letter for 100% result

b) Student's Prizes - NIL

c) Students Appreciations

S N	Year	Name of Student	Appreciations
1	2016-2017	Dnyaneshwar Kale	Rank 9 in SPPU 2015-2016

24. List of eminent academicians and scientists/visitors to the department

SN	Name of Visitors	Organization
1	Ashok Ghatol, Director	Former Vice Chancellor. BATU, Lonere
2	Dr. Hemant Abhyankar	Former vice President, Vishwakarma Institutes, Pune
3	Dr. K. K. Sangle	Dean Academic VJTI, Mumbai
4	Dr. G. A. Hinge	HOD-Civil, TSSM, BSCOE
5	Dr. Venkata Dilip Kumar P	Head of Civil Engg. Research& Innovation center, Anurag Group of Institutes,Hyderabad

25. Seminars/ Conferences/Workshops organized and the source offunding:

A) National:

a) Conferences

S N	Conferences organized	Date	National/ International	Source of funding
1	Signal Processing, Computer Modeling, Structural and Mechatronics (NCSPCMSM - 2K17)	16th -17th March 2017	National	SPPU (1,50,000/-) UBI (50,000/-)
2	Signal Processing, Computer Modeling and Mechatronics (NCSPCM2 - 2K16)	11th -12th March 2016	National	UBI (50,000/-), ACE Academy (30,000/-)

b) Workshops: NIL

c) Seminars: NIL

d) Faculty Development Programme: NIL

B) International National:

a) Conferences: NIL

b) Workshops: NIL

c) Seminars: NIL

d) Faculty Development Programme: NIL

26. Student profile Programme /Course wise:

Name of the Course/ Programme	Academic Year (Graduation)	Applications Received	Selected	Enrolled		% Passing
				M	F	
UG	2012-2013	Admission process is as per the rules and regulation of DTE	49	38	11	85.42
	2013-2014		54	48	6	88.89
	2014-2015		48	44	4	In Final Year
	2015-2016		111	104	7	In Third Year
PG Structures	2014-2015		24	23	1	30.00
	2015-2016		48	44	4	In Final Year

M-Male F-Female

27. Diversity of Students

Name of the Course/ Programme	Academic Year	% of students from the same state	% of students from the other states	% of students from abroad
BE	2017-2018	NIL	NIL	NIL
BE	2016-2017	NIL	NIL	NIL
BE	2015-2016	98.6	1.4	NIL
BE	2014-2015	98.6	1.4	NIL
BE	2013-2014	98.6	1.4	NIL
BE	2012-2013	98.6	1.4	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Exam	No. of Students				
	2012-13	2013-14	2014-15	2015-16	2016-17
GATE	-	1	1	2	0
GRE	-	1	2	1	0

29. Student progression

Student progression	Against % enrolled				
	2012-13	2013-14	2014-15	2015-16	2016-17
UG-PG		3.70	6.25	2.70	02
PG to M. Phil.					00
Employed					
Campus Selection	12.24	7.40	0	0	07
Other than Campus Recruitment					00

30. Details of Infrastructural facilities

a) Library

Particulars	Titles	Volumes
	Books	
U.G.	1844	3633
P.G.	69	182
On line Journal	1	
Printed Journal	0	

b) Internet facilities for Staff & Students: Internet line- 50Mbps dedicated for computer lab and Wi-Fi connectivity.

c) Class rooms with ICT facility

SN	Room No	Usage	Shared/ Exclusive	Capacity	Room Equipped with Aids
1	212	Teaching Learning	Exclusive	70	LCD,PC
2	223	Teaching Learning	Exclusive	70	LCD,PC
3	224	Teaching Learning	Exclusive	70	LCD,PC

d) Laboratories:

SN	Name of Laboratory	Exclusive Use/ Shared	Laboratory Manuals
1	Basic Civil	Exclusive	Available

2	Engineering Mechanics	Exclusive	Available
3	Geotechnical Engineering	Exclusive	Available
4	Surveying	Exclusive	Available
5	Strength of Materials	Exclusive	Available
6	Engineering Geology	Exclusive	Available
7	Concrete Technology	Exclusive	Available
8	Environmental Engineering	Exclusive	Available
9	Computer Laboratory	Exclusive	Available
10	Fluid Mechanics	Exclusive	Available
11	Transportation Engineering	Exclusive	Available
12	PG Laboratory	Exclusive	Available

31. Number of students receiving financial assistance from college, University, government or other agencies

SN	Agency Providing Financial Assistance	Student Academic Year				
		2012-13	2013-14	2014-15	2015-16	2016-17
1	EBC	51	76	130	165	163
2	Scholarship	83	103	139	138	119
3	Minority	2	6	12	19	13

32. Details on student Enrichment Programs (special lectures / workshops / seminar) with external experts

SN	Title	Resource Person Details	Category	Date		No. of students
				From	To	
1	Why GATE-	Mr.Deepak Rout	Higher studies/carrier	14/10/16	14/10/16	110
2	Preparation of GATE/GRE /Competative Exam	Mr.S. Kulkarni	Higher studies	2/1/17	2/1/17	100
3	Preparation of Interview, group discussion	Namrata Rao	Soft skill	27/2/17	28/2/17	105

33. Teaching methods adopted to improve student learning

Teaching methods adopted to improve student learning Department has initiated FDP for every subject. The senior faculty members guide the other faculty members of the subject in understanding the fundamentals. Common strategies are finalized by senior faculty. Notes of various units, standard readings in lab are prepared right at the beginning of semester. This activity helps the faculty members of the same subject to maintain uniformity across various classes. To inculcate the knowledge delivery skills a faculty induction program was conducted at the institute level.

- Assignments are given to students based on each unit.
- Power point presentation and NPTEL resource materials are used by faculty for delivery of subject matters.
- Tutorial are organized for improving the problem solving skills
- Industrial visits are organized.
- Guest lecturers of eminent personalities from academic institute as well as Industries are organized to enhance the student's knowledge.
- Summer, winter internship program are organized to bridge the gap between theory and practical.
- Faculty Development Programs

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- NSS activities.
- Blood donation camp
- Swachh Bharat Abhiyaan
- Tree Plantation
- Art of Living program for faculty and students.
- Solar Energy Plant.
- MoU with Industry
- Value Education Club

Strengths:

- Well-equipped laboratories
- Strong industry institute interaction
- Good academic reputation of the department
- State-of-the-art laboratories
- Student centric learning environment
- Practical exposure through site visits
- Blend of qualified, experienced, and young faculty

Weaknesses:

- Scope for more industry sponsored projects
- Active involvement of alumni in department activities
- Consultancy and extension activities.
- Number of faculty research publications
- Patents
- Student campus placement

Opportunities:

- Alumni interaction.
- Utilization of laboratory infrastructure for consultancy.

- To become Centre of Excellence in major areas of civil engineering.
- Interdisciplinary approach
- Learning with new technologies
- Establish as a center of excellence in specific domain

Challenges:

- Academic flexibility
- Dynamic modifications in curricula to accommodate new technologies.
- Enhancing employability skills as per industrial need in an affiliated institute
- Attract meritorious students at national level
- Recruitment of faculty with desired qualification and industrial experience

Future Plans

- Improvement in placement
- Establishing testing and consultancy cell.
- Organize faculty/student development program.
- Organize National conferences
- Orientation programs for competitive exams
- MoU's with industries
- Organize national conference/STTP

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Department of Computer Engineering

1. **Name of the Department : Computer Engineering**
2. **Year of Establishment : 2009-10**
3. **Names of Programme / Courses offered (UG, PG, etc.)**

Name of Programme	Year of Establishment
UG Computer Engineering (Intake of 60)	2009-10
UG Computer Engineering (Additional Intake of 60) Total-120	2011-12
PG Computer Engineering (Intake of 24)	2012-13
PG Computer Networks (Intake of 24)	2013-14

4. **Names of Inter disciplinary courses and the departments/units involved:**

SN	Class	Inter Disciplinary Courses	Departments involved
1	SE	Digital Electronics and Logic Design	E & TC
2	SE	Microprocessor Interfacing Techniques	E & TC
3	SE	Microprocessor Architecture	E & TC
4	SE	Engineering Mathematics	Engg. Sci.
5	TE	Digital Signal Processing	E & TC

5. **Annual/ semester/choice based credit system (Programme wise):**

- UG – Semester Pattern (Credit system implemented for FE & SE& Percentage marks System for TE & BE)
- PG – Semester Pattern (Credit system)

6. **Participation of the department in the courses offered by other departments:**

SN	Class	Courses	Departments involved
1	Engg. Sci.	Fundamentals of Programming Languages – I	Engg. Sci.
+2	Engg. Sci.	Fundamentals of Programming Languages – II	Engg. Sci.

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

SN	Certificate Course	Participating/ institution/industry
1	Emerging Trends in Database	Finntaito Finland (Finntaito Pune, an ISO 9001-2008 Company)
2	Google Docs in Education/Academics	Finntaito Finland (Finntaito Pune, an ISO 9001-2008 Company)
3	Linux for Academics	Linux lab-pune

4	Latex-2012	Linux lab-pune
5	PHP	3DPLM
6	Networking & Routing	Jetking, Hadapsar
7	Spoken Tutorial on Latex	IIT Bombay
8	Spoken Tutorial on Python	IIT Bombay
9	Spoken Tutorial on C	IIT Bombay
10	Spoken Tutorial on C++	IIT Bombay
11	Spoken Tutorial on Java Net Been	IIT Bombay
12	Spoken Tutorial on Advanced C++	IIT Bombay
13	Spoken Tutorial on Basic IT skills, Libre Office Suite, Linux & Ubuntu	IIT Bombay
14	C++ courses	NPTEL

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts:

Teaching Post	Sanctioned	Filled
Professors	03	03
Associate Professors	04	02
Asst. Professors	31	28

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil. etc.)

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Mr. D. C. Mehetre	M.Tech Ph.D.	Associate Professor & HoD	WSN, Mobile Computing	13
2	Dr. Devendrasingh Thakore	PhD	Adjunct Professor	Data Mining	22
3	Dr. Sandeep Vanjale	PhD	Adjunct Professor	Wireless Network Security	16
4	Dr. Vilas M. Thakare	PhD	Adjunct Professor	Robotics	22
5	Mr. M. K. Nighot	M.E. Ph.D. Pursuing	Associate Professor & PG coordinator	Wireless Sensor Network	15
6	Mr. V. B. Maral	M.Tech	Assistant Professor	Cloud computing	11

7	Mr N. Bogiri	M.Tech	Assistant Professor	Data mining, network	10
8	Mrs. R. M. Kedar	M.E.	Assistant Professor	Video processing ,Digital Systems,DSP	12
9	Mrs. R. V. Agawane	M.E.	Assistant Professor	Security	11
10	Mrs. J. M. Nighot	M.Tech	Assistant Professor	Computer Network, AI	11
11	Mr. V. S. Kolekar	M.Tech	Assistant Professor	Theory of Computation , Cloud	5
12	Mr. S. K. Shinde	M.Tech	Assistant Professor	Advanced Computer Architecture & Security	6
13	Mrs. A. S. Hambarde	M.E.	Assistant Professor	WSN,Data mining	9
14	Mr. S. M. Patil	M.E. Ph.D.	Assistant Professor	IoT, WSN, Database	8
15	Mrs. Y. N. Raskar	M.E.	Assistant Professor	Image Processing	7
16	Mr. N. B. Nimbalkar	M.E.	Assistant Professor	WSN	5
17	Mrs. S. B. Akhade	M.E.	Assistant Professor	WSN	6
18	Mr. S. L. Yedge	M.E.	Assistant Professor	WSN	5
19	Mrs. D. R. Chandani	M.Tech	Assistant Professor	Cloud Computing	7
20	Mrs. R. R. Patil	M.E.	Assistant Professor	WSN, Networking,	5
21	Mrs. R. M. Pandharpatte	M.Tech	Assistant Professor	Optimization & Mobile Network	8
22	Mrs. A. A. Bhosale	M.E.	Assistant Professor	Big data, database, image	4
23	Mrs. M. P. Kharche	M.E.Ph.D. Perusing	Assistant Professor	Image Processing	8
24	Ms. B. P. Vyas	M.Tech	Assistant Professor	Big Data , Cloud computing	1
25	Mrs. S. M. Gaikwad	M.E.	Assistant Professor	Cloud Computing	3
26	Ms. U. A. Bodhake	M.E.	Assistant Professor	WSN	4

27	Ms. H. P. Bhambure	M.E.	Assistant Professor	DBMS	4
28	Ms. M. V. Sadaphule	ME	Assistant Professor	WSN	0
29	Mr. B. B. Kondbhar	M.E.	Assistant Professor	Cloud Computing	9
30	Mrs.P. Bhambal	ME	Assistant Professor	DBMS	7
31	Mr. S. More	ME	Assistant Professor	Big Data , Cloud computing	5
32	Mrs. D. Patil	ME	Assistant Professor	Cloud Computing	5
33	Mrs. P.P. Gholap	ME	Assistant Professor	WSN,Data mining	4

11. List of senior visiting faculty

SN	Name of Faculty	Qualification	Course Name to which he/she is Teaching
1	Mr. D.P. Gaikawad	M.E. Computer Engineering	PG Computer Engg. (Sub.:Advanced Computer Architecture)
2	Dr. Devendrasingh Thakore	PhD	PG Computer Engg.
3	Dr.Sandeep Vanjale	PhD	PG Computer Networks.
4	<u>Dr. Vilas M. Thakare</u>	PhD	PG Computer Networks.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NIL**13. Student-Teacher Ratio (Programme wise)**

SN	Programme	Specialization	Student-Teacher Ratio
1	UG	Computer	15:1
2	PG	Computer	12:1
		Computer Networks	

14. Number of Academic support staff (Technical) and administrative staff; sanctioned and filled:

Academic Support Staff	Sanctioned	Filled
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Technical and Non Technical	6	6
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15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

SN	Qualification	No. of Teaching Faculties
1	Ph.D	3
2	Ph.D. Submitted	1
3	M.E. / M. Tech Completed Ph.D. Pursuing	4
4	M.E. / M. Tech Completed	25
Total		33

16. Number of faculty with ongoing projects from national and International funding agencies and grants received: NIL**17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received**

SN	Name of Research Project	Name of Principal Investigator/ Coordinator	Funding Agency	Amount as seed money Rs	Duration of the project
1	CUDA Accelerated Pattern Matching Algorithms using DNA sequence to detect Cancer	Mrs. J. M. Nighot	University of Pune	1,50,000/-	2 Yrs

18. Research Centre/ facility recognized by the University: Nil**19. Publications:****a) Publication per faculty**

Sr. No	Name of Faculty	No. of papers published in peer reviewed Journals	Number of publications listed in International Database	Monographs	Chapter in Books	Books Edited	Books with ISBN/ISSN numbers	Citation Index	SNIP	SJR	Impact factor	h-index
1	Mr. D.C. Mehetre	28	14	-	-	-	-	-	-	-	5.2 64	2
2	Mr. M.K. Nighot	18	09	-	-	-	-	-	-	-	6.5 77	1
3	Mr. V.B. Maral	26	10	-	-	-	-	-	-	-	4.4 38	2
4	Mr N. Bogiri	12	06	-	-	-	-	-	-	-	5.8 37	2
5	Mrs. R. M. Kedar	03	-	-	-	-	-	-	-	-	0.3 11	-
6	Mrs. R. V. Agawane	05	02	-	-	-	-	-	-	-	5.8 37	1
7	Mrs. J. M. Nighot	02	03	-	-	-	-	-	-	-	3.6 96	-
8	Mr. V. S. Kolekar	02	-	-	-	-	-	-	-	-	3.8 68	1
9	Mr. S. K.Shinde	01	-	-	-	-	-	-	-	-	-	-
10	Mrs. A. S. Hambarde	07	-	-	-	-	-	-	-	-	3.6 9	-
11	Mr. S. M. Patil	08	01	-	-	-	-	-	-	-	6.3 91	2
12	Mrs. Y. N. Raskar	01	-	-	-	-	-	-	-	-		-
13	Mr. N. B. Nimbalkar	01	-	-	-	-	-	-	-	-		-

14	Mr. A. R. Pagar	03	-	-	-	-	-	-	-	-	-	-
15	Mrs. S. B Akhade	-	-	-	-	-	-	-	-	-	-	-
16	Mr. S. L. Yedage	01	-	-	-	-	-	-	-	-	-	-
17	Ms.H. P. Bhambure	-	-	-	-	-	-	-	-	-	-	-
18	Mrs. U.A. Bodke	01	-	-	-	-	-	-	-	-	-	-
19	Mrs. D. R. Chandani	02	-	-	-	-	-	-	-	-	-	-
20	Mrs. R. R. Patil	05	-	-	-	-	-	-	-	-	-	1
21	Mrs.R. M. Pandharpate	05	02	-	-	-	-	-	-	-	5.6 11	1
22	Mrs. A. A. Bhosale	04		-	-	-	-	-	-	-	2.3 9	-
23	Mrs. M. P. Kharche	05	02	-	-	-	-	-	-	-	3.7 2	2
24	Mrs.P.P. Bhambal	02	-	-	-	-	-	-	-	-	6.3 9	-
25	Mr.S.N.More	02	-	-	-	-	-	-	-	-	5.8 37	-
26	Mrs. P. P. Gholap	01	-	-	-	-	-	-	-	-	6.3 9	-

b) Publication per Student:

i)Publication by UG students:

SN	Name of Faculty	Number of publications listed in International Database	Impact factor

1	Priya Panjwani, Suhas Pawar, Archana Pokharkar, Abhishek Tawde	2	3.1
2	Karan Mitra,Nishikant Mokashi,Rohan Navgire, Prasad Patil	2	
3	Pavan Gorade,Digambar Karde,Abhishek Sontakke,Khillare Poonam,Bhalerao Suhas	2	6.11
4	Komal Ajgaonkar Manisha Kumbharkar Sonal Nadarge Minal Naik	2	4.696
5	Pratibha Bodkhe Kalyani Hole Ashwini Kondlkar Prajakta Kulkarni	2	2.094
6	Sunil Dongare Prasad Sangpal Trupti Raskar Sumit Surwase	2	2.094
7	Ajinkya Bhuruk Chinmay Gadgil Kunal Kawale Mohanish Khunte	2	2.094
8	Prashant Kamble Reshma Kadam Amol Gawde Swapnil Koshti	2	3.1
9	Yogiraj Gaikwad Ajinkya Gaikwad Swapnil Gaikwad Sagar Bhuwad	2	-
10	Apeksha Gaikwad Sharayu Dhamale Priyanka Ghevade Kunal Patil	2	3.1
11	Rupali Jadhav Vivek Jadhav Yogeshwari Kapare Sonali Zaware	2	1.69
12	Sandhya Damare Mayuri Navale Rameshwari Chavan Dube Renuka	2	2.16

13	Asawari Rankhambe Rutuja Sadul Neha Subhekar Shaheen Shaikh	2	3.1
14	Pankaj Rana Mehul Sanghvi Wajeda Pathan Heena Parihar	2	2.16
15	Khade Deepak Nilesh Lendgar Rutul Sanghvi	2	5.35
16	Dnyanesh Chimbalkar Pradeep Kumar Deshmukh Kolte Umesh Sony Lahane	2	5.35
17	Shaikh Zeeshan Panegav Sharan Vaid Kalpesh Hirani Vivek	2	5.35
18	Dhumal Amol Dnyandeo Shilimkar Manali Rajan Naikoji Amol Ramchandra Patwa Yutika Pravin	2	3.696
19	Kamble Aadesh Shinde Vijay Bhausaheb Hambir Vijay Bade Ashok	2	2.39
20	Belhekar Pratik Sanjay Khandelwal Meerakumari S. Jagtap Gauri Valmik Bharsakal Tanaji Dattatray Sawant Akash Yashwant	2	3.696
21	Chavan Priyanka Vishwant Jambhulkar Ashwini Hirendra Thorat Mrunali Shekhar Gundale Ashwini Ravindra	2	6.047
23	Kadam Ketan Omprakash Shah Devendra Hiralal Shinde Shubham Sunil Doiphode Akash Gajanan	2	2.24
24	Dhandal Chetan Gajanan Choudhary Mukesh Lumbaram Jadhav Akshay Satish Dhone Sumeet Popat	2	2.39
25	Awati Arshad Mohd Hanif Shikha Maurya Pawar Namrata Sadashiv	1	3.696

26	Shinde Mohini Narayan Todkar Sadhana Maruti Ubale Pradnya Ramesh	2	3.998
27	Oswal Aanchal Dinesh Shetty Vachana Karunakar Badshah Mustafa Munaf Pitre Rohit Suhas	2	1.94
28	Dholu Punit Vitthaladas Doshi Parth Rajulkumar Priya Pandey Sakhare Kaustubh Santosh	2	3.696
29	More Sneha Suhas Madki Amani Jamiyan Ahuja Upasna Suresh Bade Priya Ranjit	1	1.94
30	Kalgude Omkar Chandrakant Chaudhari Deepak Santosh Patil Rohit Nagendra Parkhe Vivek Philip	1	6.577
31	More Sadhana Prakash Satav Sayali Sudam Dahiphale Sonali Dnyandev Prajapati Ganesh Ashok	2	-
32	Choudhari Sourabh Atul Avhad Amol Udhav Sathyanarayan Roshan Rane Anil	2	3.696
33	Madhumati Kavale Kajal Karbhal Supriya Kumbhar Nikhil Lohar	2	4.064
34	Swati Madole Hardik Kawa Swapnil Sonawane Akshay Khartade	2	2.39
35	Niyati Pandit Bhagyashri Chavan Jyoti Rayker Snehal Shinde	2	1.443
36	Leena Rade Kajal Kamthe Priti Andhale Kajal Memane	2	3.69
37	Suhail Jahagirdar Chabbil Choudhary Bagwan Mohammadasif	2	4.064

38	Pratik Phule Niraj Raskar Akshay Badak Sushant Chavan	2	3.59
39	Prashant Kamathe Namdev Pawar Amol Rathod	1	2.39
40	Ravina Patil Akshay Nagawade Deepak Choudhari Kunal Mahajan	1	3.696
41	Niraj Waval Rohin Thomas Pavan Renuse Abhishek Wakodkar	2	2.39
42	Jyoti Bande Sanket Bora Umesh Mulik Ankita Chavan	1	3.8
43	Kuldeep Patil Sudhindra Purohit Omkar Konnur Aman Ismail	1	3.696
44	Akshay Salunke Apoorva Hebbar Nilay Trivedi Travis Hale	2	4.06
45	Pranav Hendre Sourabh Bhakkad Ketan Balharpure Sagar Kale	2	4.06
46	Mahesh Pawar Akshay Aaher Govindraj Ralegaonkar Sagar Diwate	2	3.696
47	Tasmin Pathan Rohan Jadhav	2	3.8
48	Vijay Hasani Mayank Binayake Sanket Gandhi Snehal Khandekar	1	3.8
49	Rahul Narigara Shruti Shah	2	3.69
50	Amol Katake Kiran Bhame Vaibhav Wabal Radhika Sarad	1	6.577

51	Chouri Ravindra Pranita Darekar Arati Gupta	2	4.064
52	Rajashri Aousare Ashwini Kashid Vishakha Pawar Ashiwini Jagtap	2	3.8
53	Kanaga Udiyar Dhananjay Kor Nisha Shingavi Tanzila Tamboli	2	3.69
54	Pranoti Pasalkar Ruchali Doshi Prajakta Kale	2	3.69
55	Siddhanath Yadav Vinit Shah Purushottam Sahoo Ankita Rajput	1	5.61
56	Ashish Modak Swagnik Das Arshi Akab Deepika Patil	2	3.696
57	Vikrant Kakad Swanand Gorade Omkar Wagh Sagar Jagtap	2	3.52
58	Anand Zurunge Chinmay Yogi Piyush Solanki Gaurav Patel	2	3.75
59	Abhijeet Randive Akash Nanawate Mahesh Shinde Nikhil Shinde	2	4.06
60	Manjiri Bole Yogini Chavan Aarif Shaikh Saurabh Chikhale	1	4.14
61	Prafull Chopade Ramdas Tupe Kajal Patil Reshma Gaddekar	2	5.611
62	Savitra Paharekari Surabhi Nilengekar Jadhav Chaitali Jitesh Padwal	3	6.017

63	Abhishek Dev Rushabh Shah Maneesh Jasrotia Muzammil Nadaf	2	5.181.
64	Jainapure Naresh Mandar Khare Suraj Shelke Dhagle Mandar	2	6.577
65	Bhagyashree Mahajan Pooja Kumbhar Poonam Dambare Pratiksha Ladkat	3	6.017
66	Sonali Aher Rachana Doshi Amrita Sutar Sanvida Dalvi	2	3.52
67	Mohit Chandane Gawali Tushar Hitesh Borawake Sujay Thorat	1	3.75
68	Amol Chaudhari Shubham Chavan Sanemahdi Aland Shahebaz Moulavi	1	4.064
69	Amruta Masal Pritam Shinde Ashwini Patil Latashree Chintakindi	2	5.94
70	Kumar Katake Sayli Kamthe Khedkar Nikhil Kawade Gaurav	2	6.017
71	Shubham Mohurle Kunjir Pratiksha Seema Khutwad Sanad Padvekar	2	5.611
72	Chate Shreenath Gomare Gitanjali Jagtap Rutuja	2	5.611
73	Dheeraj Bahl Vinay Desai Isra Fatima Shree Vibhandik	2	5.181.
74	Swapnil Khedekar Krushnakant Takale Kiran Yuage Shivraj Kamatgi	1	4.064

75	Fawwad Khan Arshad Momin Sadaf Mulla Sharukh Shaikh	1	4.064
76	Vishal Kalburgi Mazhar Shaikh Abdul Majid Narayan Hari Singh	2	4.064
77	Pranjali Dube Tabassum Nakhawa Shruthi Ramesh Priyanka Kolte	2	4.064
78	Pooja Pasalkar Sneha Rangole Shyamali Navale	2	5.181.
79	Shwetal Yadav Aishwarya Dhekane Dipali Yadav Mayuri Pawar	3	5.94
80	Ankit Hinge Shubham Malegaonkar Lokesh Marne Janardhan Mahajan	3	6.017
81	Shubham Shrivastav Chetan Waman Sachin Sude Vinayak Waghmare	2	4.064
82	Poorva Awale Shubham Kumbhar Atish Kulkarni Gaurav Bhosale Vishakha Panchal	3	4.14
83	Bhagyashree Kute Sharmili Ranjane Rajvardhini Katke Shubham Jaisawal	2	5.181.
84	Sneha Konade Snehal Shinde Sonali Khenat Devika Thakar	2	5.181.
85	Siddhi Ganbote Mansi Sarode Snehal Shitole Bhushan Pawar	3	5.181.
86	Aamir Shaikh Faizan Sayyed Randale Saiprasad Dayasagar Aarif Tamboli	2	4.064

87	Monica Bhangire Komal Matere Akshada Jamdar Shradha Shahari	2	5.611
88	Kedar Mulay Sangram Shitole Arul Mudliar Avinash Pujari	3	4.064
89	Ashish Dhumal Vishal Gavhane Swapnil Dhadse Sandeep Kokate	2	3.75
90	Mhaske Tushar Mhaske Kiran Javed Mulani Mahesh Lagad	2	5.181.
91	Mayur Mane Tejas Rasal Suraj Choudhary Shubham Suryawanshi	1	5.611

ii)Publication By PG students- Computer Engineering

SN	Name of Faculty	Number of publications listed in International Database	Impact factor
1	Bhosale Manisha Vikrant	1	6.391
2	Bhosale Shirish Anand	2	6.39
3	Datir (Patil) Sarika Murlidhar	2	6.39
4	Dilip Kumar Jangbahadur	2	3.12
5	Dombale Anita Bapu	2	3.916
6	Gholap Nisha Pradeep	3	3.32
7	Ghotekar Rahul Krishnaji	2	2.5
8	Joshi Rakhi Madhukar	2	3.1
9	Karande Supriya Jalindar	3	5.8
10	Kate Vaibhav Bhagwan	2	12.5
11	Mahajan Harshala Pundlik	2	4.89
12	Nadaph Anisaara Gulab	5	1.9
13	Nimbalkar Nividita Bapusaheb	3	2.56

14	Nimbalkar Tejashvri Shahaji	2	4.11
15	Nitnaware Prerana Tukaram	1	2.56
16	Pagar Ajit Ramnath	2	2.5
17	Pustake Supriya Vishvanath	2	-
18	Shinde Rupali Ramesh	2	6.391
19	Yedage Satish Laxman	2	6.391
20	Bhambure Harshada Pravin	3	6.391
21	Chavan Priyanka Dhananjay	1	6.391
22	Gaikwad Shital Manik	3	6.391
23	Gholap Prachi Jaysing	1	6.391
24	Harsule Sneha Rajan	1	5.8
25	Kokane Sayali Rohidas	2	6.391
26	Korde Priyanka Bharat	1	6.391
27	Kudande Mina Vithal	2	6.391
28	Mane Vidya Maruti	2	6.391
29	Raut Shilpa Suresh	2	6.391
30	Waghmare Jayashri Gopalrao	2	6.391
31	Yadav Ashwini Balasaheb	1	3.4
32	Dabade Laxmi Pandurang	2	6.391
33	Ghadge Tejal Rajendra	2	4.06
34	Kamthe Priyanka Suresh	2	3.72
35	Sancheti Nikita Ravindra	2	4.06
36	Saste Priyanka Vilas	1	5.61
37	Thorat Sayali Ramkrishna	2	6.391
38	Tuteja Simranjit Kaur	2	6.39
39	Damare Sandhya Mahadev	1	-
40	Barkade Soniya Lahu	2	6.577
41	Damare Deepti Mahadev	2	4.284
42	Gharde Pooja Dnyaneshwarrao	1	-
43	Jadhav Chitralekha Arun	2	4.284
44	Jichkar Bhushan Rameshrao	2	3.8

45	Jivane Anjali Baburao	1	-
46	Joshi Madhuri Prakash	2	6.391
47	Memane Tejasvi Sadashiv	3	4.064
48	More Sneha Suhas	3	4.396
49	Patil Swapnali Sanjay	2	6.577
50	Reddy Arundhati Sanjay	2	6.577
51	Renuse Sayali Chandrakant	2	4.284
52	Sid Varsha Arun	2	6.577
53	Walhekar Poonam Dattatraya	-	-
54	Zinzurke Nitin Raghunath	3	6.577

iii)Publication By PG students- Computer Networks

SN	Name of Faculty	Number of publications listed in International Database	Impact factor
1	Bagde Aparna Mahadeo	2	2.7
2	Bhide Vishwajeet Hari	2	6.047
3	Chavan Ajit Ashok	2	6.577
4	Darpe Dipali Rambhau	3	6.577
5	Desai Vijaya Dinkar	3	0.997
6	Deshmukh Vishakha Shamkant	1	-
7	Doifode Santosh Shankar	2	6.391
8	Kadam Rahul Chandrakant	2	1.76
9	Karande Nilesh Bhagawan	2	4.343
10	Lonkar Priyanka Balasaheb	3	1.814
11	Mandavkar Ashwini Ashok	2	6.047
12	Mane Sagar Sudhakar	2	6.047
13	More Aniket Sambhaji	1	6.047
14	Oza Pooja Rameshchandra	1	6.047
15	Patil Jaydeep Jalindar	2	6.047
16	Patil Snehal Mahadev	2	4.14
17	Raipure Shwetal Suresh	2	6.047

18	Taru Swapnil Dattatraya	2	6.047
19	Vharkute Madhavi Mahadeo	2	1.76
20	Bambal Pallavi Pradeep	2	6.391
21	Bawage Vaishali Prakashrao	2	6.391
22	Borbande Tejashree Vijay	3	6.391
23	Gadekar Vaishali Ramrao	2	6.577
24	Kulkarni Amruta Ashok	2	5.837
25	More Sunil Nandkumar	2	5.837
26	Navpute Suchita Bhaskarrao	3	6.391
27	Pol Vidya Vasant	1	6.391
28	Soshanka Khumanthem	2	6.047
29	Tare Ruchira Kishanrao	2	6.391
30	Tathavadekar Sumedha Ravindra	2	*9
31	Bhagat Abhimanyu Dattatraya	2	6.209
32	Darekar Mahesh Raosaheb	2	6.209
33	Ghelani Dharmesh Rajnikant	2	6.577
34	Khamkar Komal Sunil	2	6.577
35	Meshram Abhay Kishor	2	6.577
36	Naik Swapnil Naroji	2	4.284
37	Pujari Shankar Suryappa	2	5.837
38	Shinde Meghana Mahesh	2	6.209
39	Waghmare Swapnil Arun	3	6.577

20. Areas of consultancy and income generated

SN	Consultancy	Income In Rs.
1	TCS	10,000/-

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards.

SN	Name of Faculty	Committees	Type
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1	Mr. D. C. Mehetre	Reviewer- IEEE Multidisciplinary Journal of research in engineering and technology (MJRET)	Editorial Board Member
2	Mr. M. K. Nighot	Reviewer- IEEE, Multidisciplinary Journal of research in engineering and technology (MJRET)	Editorial Board Member
3	Mr.S.M.Patil	Reviewer- IEEE, Multidisciplinary Journal of research in engineering and technology (MJRET)	Editorial Board Member

22. Student projects

a) Percentage of students who have done in-house projects including interdepartmental/programme

SN	Year	No. of In-house Projects	% of In-house Projects
1	2016-2017	33	94
2	2015-2016	24	96
3	2014-2015	23	96
4	2013-2014	22	91
5	2012-2013	16	88

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

SN	Year	No. of Projects in Collaboration	% of Projects done in Collaboration
1	2016-2017	2	6
2	2015-2016	1	4
3	2014-2015	1	4
4	2013-2014	2	9
5	2012-2013	2	12

23. Awards/Recognitions received by faculty and students

a) Awards/Recognitions received by Faculty:

SN	Name of Faculty	Year of Achievement	Achievement/ Recognition
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1	Mr. M.K.Nighot	2016-17	2nd International Conference on Signal Processing, Computer Modeling, Structural and Mechatronics NCSPCMSM-2k17 2017 at KJCOEMR, Pune
2	Mrs.D.R.Chandani	2016-17	Excellence in Performance Award
3	Mrs.R.R.Patil	2016-17	Excellence in Performance Award
4	Mr. S.L.Yedge	2016-17	Excellence in Performance Award
5	Mrs. M. P.Kharche	2016-17	Excellence in Performance Award
6	Mr. A. R. Pagar	2016-17	Excellence in Performance Award
7	Mrs.A.S.Hambarde	2016-17	Excellence in Performance Award
8	Mrs.R.M.Padharpatte	2016-17	Excellence in Performance Award
9	Mr.N.Bogiri	2016-17	Excellence in Performance Award
10	Mr. D.C.Mehetre	2015-16	Best paper award in International conference on ICCNSP-2015,Bangalore
11	Mr. V. S. Kolekar	2015- 16	Excellence in Performance Award
12	Mrs. J. M. Nighot	2015- 16	Excellence in Performance Award
13	Mrs. M. P.Kharche	2015- 16	Excellence in Performance Award
14	Mrs. D. S. Patil	2015- 16	Excellence in Performance Award
15	Mr. S. M. Patil	2015- 16	Excellence in Performance Award
16	Mrs. H. P.Bhambure	2015- 16	Excellence in Performance Award
17	Mr. M. K. Nighot	2015- 16	Excellence in Performance Award
18	Mrs. H. P. Bhambure	2014- 15	Excellence in Performance Award
19	Mr. S. M. Patil	2014- 15	Excellence in Performance Award
20	Mrs. R. V.Agawane	2014- 15	Excellence in

			Performance Award
21	Mr. A. R. Pagar	2013- 14	Excellence in Performance Award
22	Mr. V. B. Kate	2013- 14	Excellence in Performance Award

b) Awards/Recognitions received by Students:

SN	Year	Student Count
1	2016-2017	27
2	2015-2016	2
3	2014-2015	11
4	2013-2014	17
5	2012-2013	12

24. List of eminent academicians and scientists/visitors to the department

SN	Name of Visitors	Organization
1	Mr. Ramjee Prasad	Founding Chairman, Global ICT Standardization Forum for India (GISFI)
2	Mr. Nigel Jefferies	Chairman, Wireless World Research Forum(WWRF)
3	Mr. Raghunath K Shevgaonkar	Director Indian Institute of Technology Delhi (IITD)
4	Mr. Brahima Sanou	ITU
5	Mr. Anil Kaushal	Sr DDG, TEC, DoT, GoI (tbi)
6	Mr. R. K. Bhatnagar	Advisor (Technology),DoT,GoI (tbi)
7	Mr. T. R. Dua	Vice Chairman, GISFI
8	Mr. Vinod Kumar	Alcatel-Lucent, France
9	Mr. Rahim Tafazolli	University of Surrey, UK
10	Mr. Christos Politis	Kingston University, UK
11	Mr. Sureshwaran Ramadass	USM, Malaysia
12	Mr. Yongxing Zhou	HUAWEI, China
13	Mr. KJ Wee	ITU-R, Korea
14	Mr. Krishna Sirohi	I2TB-SPPL, India
15	Mr. Sandeep Inamdar	Vishwa Niketan, India
16	Mr. Saurabh Bhatia	IBI, India
17	Mr. Knud Erik Skouby	CTIF-copenhagen, Denmark
18	Mr. Arun Golas	DDG, TEC,DoT,GoI (tbi)
19	Mr. Anand R. Prasad	NEC, Japan
20	Mr. Arvind Mathur	CISCO, India
21	Mr. Sudhir Dixit	HP, India
22	Mr. Ashutosh Dutta	NIKSUN (tbi)
23	Mr. Hendrik Bernd	NTT DoCoMo, Germany

24	Mr. Debu Nayak	Huawei, India
25	Mr. Balamuralidhar P	TCS, India
26	Ms. Mini Vasudevan	Ericsson, India
27	Mr. Balwant Sharma	BIT, India
28	Mr. Parag Pruthi	NIKSUN
29	Mr. Niranth Amogh	Huawei
30	Mr. Rakesh Agrawal	VNL
31	Mr. Pawan K. Garg	Member, Radio Regulations Board, ITU; Former Wireless Advisor, Government of India.
32	Tilak Raj Dua	GISFI
34	Mr. Sanjay Kumar	BIT Mesra
35	Mr. Omkar Sutar	Guru Software,Pune
36	Mr. N. Rajesh	IIHT center,Pune
37	Mr. Milind Ankaleshwar	MASS Technologies
38	Mr. Nitin Sadhu Battula	Open AiR Training Solutions Pvt Ltd.
39	Mr. Kishor More	Graphics Technologies
40	Mr. Shital Patil	Kaitec Solutions Pvt. Ltd.
41	Mr. Ashwin Balani	First Impression Technologies
42	Mr. Abhay Meshram	Impression Technologies Nagpur
43	Mr. Milind Ankleshwar	Mass Technologies Pune
44	Mr. Sandeep Shinde	VIT Pune
45	Prof. Dr. Sachin D. Babar,	Professor, SIT Lonavala
46	Mr. Sanjesh Pawale,	Assistant Professor ,VIT, Pune
47	Mrs. Madhavi Kale	Soft Skill Trainer, Pune
48	Prof. Aishwary Gavand	JSPM, Hadapsar, Pune
49	Mr. Swapnil Naik, Software	Architect, A-Four Technologies
50	Prof. M. B. Nimbalkar,	SCOE, Pune
51	Mr. Mahesh Kedar	Senior Data Analyst, IBM, Pune
52	Prof. N. B. Pokale,	TSSM's BSCOER, Narhe, Pune
53	Prof. G. T. Chavan,	SCOE, Pune
54	Ms. Arundhati Reddy,	Impulse Tech and Business Solutions Pvt Ltd.
55	Mr. Sandip Waghole,	Dassaunt Systems
56	Mr. Sachin Palve,	TCS,Pune
57	Mr. Rahul Patil	L&T InfoTech,pune
58	Dr. Vijay Bivde,	Dept of IT, SKNCOE, Pune
59	Prof. T. A. Chavan	Dept of IT SKNCOE, Pune
60	Prof. Sandip Shinde,	VIT Pune
61	Dr. Suhas S. Patil,	Bharati Vidyapeeth Deemed University, Pune

25. Seminars/ Conferences/Workshops organized National/International and the source of funding:

a) Conferences:

SN	Conferences organized	Date	National/ International	Source of funding
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1	Signal, Processing, Computer modeling and Mechatronics	14 th & 15 th March 2017	National	IETE & SPPU
2	Signal, Processing, Computer modeling and Mechatronics	11 th & 12 th March 2016	National	IETE

b) Workshops:

SN	Workshops organized	Date	National/ International	Source of funding
1	Emerging Trends in Database	25/10/2013 to 26/10/2013	National	Institute Sponsored
2	Information & Communication Technology	11/03/2013 to 13/03/2013	International	Institute Sponsored
3	Google Docs in Education/Academics	28/11/2011 to 29/11/2011	National	Institute Sponsored
3	Linux for Academics	13/01/2012 to 14/01/2012	National	Linux Lab, Pune
4	Latex-2012	2012	National	Institute Sponsored
5	PHP	2011	National	Institute Sponsored
6	Networking & Routing	2012	National	Jet king, Hadapsar
7	ME Academic process program	12/08/2013	National	Pune University
8	Spiritua-2011	31/03/2011 to 01/04/2011	National	Institute Sponsored

c) Seminars :

SN	Seminar Organized	Date	National / International	Source of funding
1	TCP Congestion Control & its Benefits	6/8/2012	National	Institute Sponsored
2	Wireless Communication Technologies	13/03/2013	International	Institute Sponsored
3	Network Security	9/8/2013	National	Institute Sponsored
4	Internet of Things	20/01/2014	National	Institute Sponsored

5	Cloud Computing	3/2/2014	National	Institute Sponsored
6	Mobile Computing	25/08/2014	National	Institute Sponsored
7	Big Data	8/9/2014	National	Institute Sponsored
8	Image Processing	2/2/2015	National	Institute Sponsored
9	Search Engine	10/8/2015	National	Institute Sponsored
10	Deep Learning	18/01/2016	National	Institute Sponsored

d) Faculty Development Programme :

SN	Expert Lectures organized	Date	National/ International	Source of funding
1	Google Docs in Education/Academics	28/11/2011 to 28/11/2011	National	Institute Sponsored
2	ME Academic process program	2013	University	SPPU
3	Database Management System Laboratory	16/06/2017	University	Institute Sponsored

26. Student profile Programme /Course wise: UG:

Name of the Course/ Programme	Academic Year (Graduation)	Applications Received	Selected	Enrolled		Pass
				M	F	
Computer Engineering (UG)	2016-2017	DTE	70	43	27	In BE
Computer Engineering (UG)	2015-2016		91	57	34	88%
Computer Engineering (UG)	2014-2015		148	95	53	97%
Computer Engineering (UG)	2013-2014		82	46	36	92%
Computer Engineering (UG)	2012-2013		72	41	31	98 %

* M-Male *F-Female **SEDA also considered

Student profile Programme /Course wise: PG: CE

Name of the Course/ Programme	Academic Year (Graduation)	Applications Received	Selected	Enrolled		Pass
				M	F	
Computer Engineering	2016-2017	DTE	1	1	0	In III Sem
Computer Engineering	2015-2016		16	02	14	In IV Sem
Computer Engineering	2014-2015		24	09	15	75%
Computer	2013-2014		24	09	15	67%

Engineering						
Computer Engineering	2012-2013		24	09	15	83%

* M-Male *F-Female **SEDA also considered

Student profile Programme /Course wise: PG: CN

Name of the Course/ Programme	Academic Year (Graduation)	Applications Received	Selected	Enrolled		Pass
				M	F	
Computer Networks	2016-2017	DTE	1	0	1	In IV Sem
Computer Networks	2015-2016		09	06	03	70
Computer Networks	2014-2015		24	13	11	80%
Computer Networks	2013-2014		24	10	14	70%

27. Diversity of Students

Name of the Course/ Programme	Academic Year	% of students from the same state	% of students from the other states	% of students from abroad
Computer Engineering(UG)	2016-2017	92.86	7.14	NIL
Computer Engineering (UG)	2015-2016	95.60	4.39	NIL
Computer Engineering (UG)	2014-2015	96.62	3.37	NIL
Computer Engineering(UG)	2013-2014	96.34	3.65	NIL
Computer Engineering (UG)	2012-2013	97.14	2.84	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Exam	No. of Students				
	2012-13	2013-14	2014-15	2015-16	2016-17
Gate Appeared	-	33	12	21	50
GRE	3	2	2	1	2

29. Student progression

Student progression	Against % enrolled				
	2012-13	2013-14	2014-15	2015-16	2016-17
UG-PG	9	7	6	4	3
PG to M. Phil.	NA	NA	NA	NA	NA
PG to Ph.D. etc	-	-	1	-	-
Employed					
Campus Selection	1	2	17	5	12
Other than Campus Recruitment	42	37	29	27	3
Entrepreneurship / Self Employment	2	2	-	2	1

30. Details of Infrastructural facilities**a) Library**

Particulars	Titles	Volumes
Books		
U.G.	1133	3586
P.G.(CE)	182	494
P.G.(CN)	100	339
Online Journals		
IEEE Socity		
ASME Online	NA	NA
Science Direct	275	NA
Printed Journals		
U.G.	NA	NA
Magazine(Electronics for you)	3	36

b) Internet facilities for Staff & Students:

Internet Line of 50 Mbps is divided among all departments of college.

c) Class rooms with ICT facility:

(ICT-Information and communication Technology) All classrooms and computer laboratories are provided with internet facility. The class rooms are spacious and well equipped with the necessary infrastructure (LCD projectors, Audio/video visual aids with internet etc.) making it conducive to teaching & learning.

d) Laboratories

SN	Name of Lab	Exclusive use	Lab Manual
----	-------------	---------------	------------

1	PL-I	Exclusive use	Y
2	PL-II	Exclusive use	Y
3	DBMS	Exclusive use	Y
4	HL	Exclusive use	Y
5	Communication	Exclusive use	Y
6	NA Lab	Exclusive use	Y
7	Project Lab	Exclusive use	Y
8	Computer Center	Exclusive use	Y
9	Software Lab	Exclusive use	Y
10	OS Lab	Exclusive use	Y
11	PG LabI	Exclusive use	Y
12	PG Lab II	Exclusive use	Y
13	Research Lab-I	Exclusive use	Y

31. Number of students receiving financial assistance from college, University, government or other agencies

SN	Agency Providing Financial Assistance	Student Academic Year				
		2012-13	2013-14	2014-15	2015-16	2016-17
1	College	09	09	95		26
2	University	--	03	05	07	12
3	Government	125	154	183	205	242
4	Other Agencies	--	--	07	--	

32. Details on student Enrichment Programs (special lectures / workshops / seminar) with external experts

SN	Title	Resource Person Details	Category	Date		No. of students
				From	To	
1	Data warehousing /Business Intelligent	Mr. Pavan Renuse	Technical	29/8/16	29/8/16	128
2	Why GATE-	Mr. Deepak Rout	Higher studies/carrier	14/10/16	14/10/16	125
3	Preparation of GATE/GRE/Competative Exam	Mr.Swana d Kulkarni	Higher studies	2/1/17	2/1/17	180

4	Carrier Opportunitis in IOT	Mr.Jayant Unawane	Technical	31/1/17	31/1/17	122
5	Preparation of Interview,group discussion	Namrata Rao	Soft skill	27/2/17	28/2/17	130
6	Student awareness and career Guidance In IT Industry	Mr.Dhana njay Kor	Technical	4/8/17	4/8/17	60

33. Teaching methods adopted to improve student learning

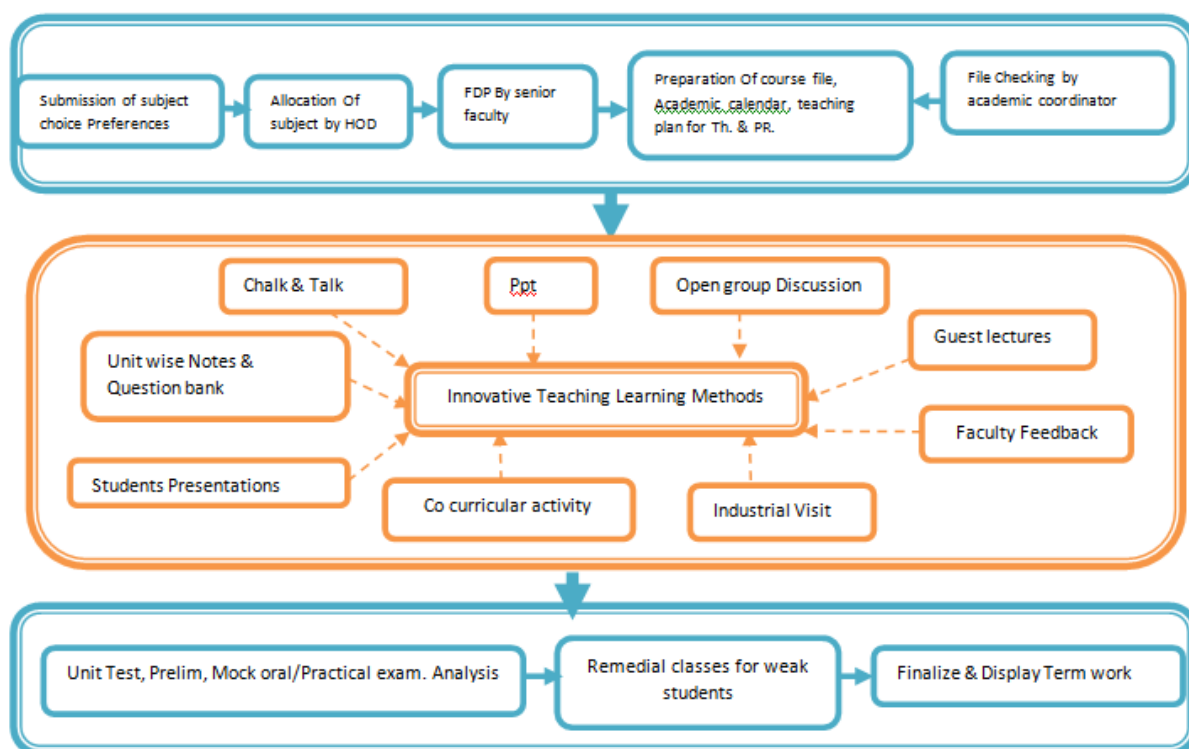


Fig 33.1 Teaching Learning Process

The Teaching Learning process at Department of Computer Engineering, KJCOEMR, Pune works as follows:-

1. The subject choices for the incoming semester are submitted by each faculty in current semester.
2. The subject should be allocated according to the faculty preferences by the HOD.
3. Before finalization of the subject allocation an open discussion takes place with all the faculties and the subject allocation is revised based on the suggestions/requirement.
4. Once the subject allocation is complete, the faculties start learning & preparing the subject and course files during vacation.
5. The Academic Calendar is finalized before onset of the next semester.
6. Each faculty prepares a teaching plan for the theory (unit wise) & practical's.
7. The authorities (Academic coordinator, HOD, Principal) check the course files before the teaching begins.
8. The faculty development program is arranged by senior faculty members to guide the other faculty members of subject for understanding the fundamental concept.
9. When semester was commenced, teaching plan was provided to students, on first lecture a syllabus discussion of each subject done by respective faculties with the students.
10. During the semester various innovative teaching learning methods are adopted for a better learning experience of students such as –Power Point Presentations, Chalk & talk, Students Presentations, Open Group Discussions and Guest Lectures, are conducted to enhance teaching learning process.
11. Whereas Co-curricular activities and Industrial Visits are arranged for the students with the IT industry.
12. Feedback is taken from the students to improve the quality of teaching learning process.
13. Unit wise notes & question bank of every subject is provided to the students after completion of each unit.
14. During the semester Unit tests, online practice exam. And mock practical/oral exams are conducted for improving the student's performance.
15. Prelim examination and mock Practical/Oral examinations are conducted at end of the semester.
16. Remedial actions are taken for failed students in form of re-attempts for these exams, practice sessions, counseling, re-submission etc.
17. The Term-work finalization is done based of the performance of the student throughout the semester in curricular, co-curricular, extra-curricular activities. Regularity of students is also rewarded in terms of marks.
18. The Teaching Learning Process works in cyclic manner for every semester from step 1 to 17 as shown in Fig 33.1.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

SN	Year	Activity
1	2016-2017	Yoga Activity
		Tree Plantation
		Blood Donation On Gurupournima
		Swach Bharat Abhiyaan
		Teachers Day & Organ Donation
		Engineers Day
		NSS Foundation Day (Traffic Mgmt & Girls Sports)
		Vachan Prerana Diwas

		NSS CAMP (Gunand)
		Eye Donataion Awareness (Street Play & Rally)
		Blood Donation on account of KJ Sir Birthday
		Medical Camp on account of KJ Sir Birthday
		Women's day
2	2015-2016	Yoga Activity
		Book Donation
		Blood Donation On Gurupournima
		Teachers day and Tribute to Dr. A.P.J Abdul Kalam
		Engineers Day
		Street Play
		Ganapati visarjan
		Road Safety
		Blood Donation
		Plastic Diposal
		Women's day
3	2014-2015	Yuva Parishad
		Jagrut Foundation Guest Lecture
		Blood Donation on the occasion of Guru Pornima
		Mutha River Cleaning
		Fund generation for Malin Gaon, Ambegaon, Pune
		Candle March in memory of Dr. N. Dabholkar
		Teachers Day Celebration
		Guest Lecture by Prof. R. G. Kolhe & Tree Plantation
		Blood Donation organised on the Birthday of our President Mr. Kalyan Jadhav.
		Ground Cleaning Preparation for Republic Day.
		Street Play on "Swach Bharat Abhiyaan" & Social Awareness
		Womens Day Celebration
4	2013-2014	Tree Plantation
		Teachers Day Celebration
		Blood Donation on the occasion of Guru Pornima
		Participation in National Level (Manthan)
		"Women Empowerment" lecture for Womens on occasion of Navratri
		Blood Donation organised on the Birthday of our President Mr. Kalyan Jadhav.
		Ground Cleaning Preparation for Independence Day.
		Street Play on Women Empowerment and Society Awarnesss
		Self Defence Workshop by Hemant Kshirsagar for Girls and Lady faculty members
		Visit to Mamta Foundation for Donation of Medical equipment and study material
5	2012-2013	Yuva Parishad
		Jagrut Foundation Guest Lecture
		Blood Donation on the occasion of Guru Pornima

	Mutha River Cleaning
	Fund generation for Malin Gaon, Ambegaon, Pune
	Candle March in memory of Dr. N. Dabholkar
	Teachers Day Celebration
	Guest Lecture by Prof. R. G. Kolhe & Tree Plantation
	Blood Donation organised on the Birthday of our President Mr. Kalyan Jadhav.
	Ground Cleaning Preparation for Republic Day.
	Street Play on “Swach Bharat Abhiyaan” & Social Awareness
	Womens Day Celebration

35. SWOC analysis of the department and Future plans:

Strengths:

- Well equipped laboratories
- Very good computational facility with sufficient backup.
- Good retention ratio

Weaknesses:

- Improving the number of faculty with Ph.D. Qualification
- Publications in reputed journal
- Enhancement in R&D and consultancy work

Opportunities:

- Interdisciplinary projects
- Collaborative research work with industries
- Improving number of student's placement in renowned industries
- Starting Incubation Center

Challenges:

- Cope-up with corporate expectations within given time constraint
- Dynamic variations in curriculum to adapt new technologies

Future Plans:

- Research center of domain excellence under SPPU.
- Formation of faculty and student research groups
- To promote R&D and consultancy work

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Department of Electrical Engineering

1.Name of the Department : Electrical Engineering

2.Year of Establishment : 2010-2011

3. Names of Programmers / Courses offered (UG)

Name of programme	Year of Establishment
UG Electrical Engineering (Intake of 60)	2010-11

4.Names of Inter disciplinary courses and the departments/units involved:

SN	Class	Inter Disciplinary Courses	Departmentsinvolved
1	SE	Engineering Mathematics	Engineering Science

5. Annual/ semester/choice based credit system (Programme wise):

UG: FE, SE Semester credit system and TE, BE, Semester system

6.Participation of the department in the courses offered by other departments:

SN	Class	Courses	Departments involved
1	SE	Electronics and Electrical Engineering	Mechanical
2	FE	Basic Electrical Engineering	Engineering Science

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

Teaching Post	Sanctioned	Filled
Professors	02	00
Associate Professors	04	00
Asst. Professors	15	14

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil. etc.)

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the
1	Mr.LalitKumar	M.Tech,PhD(pursuing)	Asst Professor	Power System	7	NA
2	Mr. B. S .Bisht	M.Tech, PhD(pursuing)	Asst Professor	Power System	12	NA
3	Ms. R .A. Khedkar	M.E., PhD(pursuing)	Asst Professor	Electronics	12	NA
4	Mr.M.K.Shakya	M.Tech	Asst Professor	Power System	7	NA
5	Mr.R.V.Katre	M.Tech	Asst Professor	Power System	7	NA
6	Mr.A.L.Nehete	M.Tech	Asst Professor	Power System	7	NA
7	Ms.P.A.Chaudhari	M.Tech	Asst Professor	Electronics & communication	6	NA
8	Ms.P.M.Pekhale	M.E.	Asst Professor	Power System	6	NA
9	Ms.P.K.Kherdikar	M.Tech	Asst Professor	Industrial Drives control	5	NA
10	Ms.JayshreeDeka	M.Tech	Asst Professor	Instrumentation	5	NA
11	Ms.S.V.Valunekar	M.E.	Asst Professor	Control System	4	NA
12	Ms.Amruta Takawale	M.E.(DS)	Asst Professor	Control System	3	NA
13	Mr.G.D.Talewad	M.E.	Asst Professor	Power Electronics	2	NA
14	Ms.AnuradhaGarg	M.E.	Asst Professor	Power System	1	NA

11. List of senior visiting faculty: NIL
12. Percentage of lectures delivered and practical classes handled (programme wise) By temporary faculty: NIL
13. Student-Teacher Ratio (programme wise)

SN	Programme	Specialization	Student-Teacher Ratio
1	UG	Electrical	13:1

14. Number of Academic support staff (Technical) and administrative staff; sanctioned and filled

Academic Support Staff	Sanctioned	Filled
Non Teaching Staff I (Technical and Non Technical)	3	5

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

SN	Qualification	No. of Teaching Faculties
1	Ph.D (Completed)	NIL
2	M.Tech/M.E , Ph.D (Pursuing)	3
3	M.Tech/M.E.	11

16. Number of faculty with ongoing projects from a)National b)International funding agencies and grants received: NIL

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL

18. Research Centre/ facility recognized by the University :NIL

19. Publications:

a) Publication per faculty

SN	Name of Faculty	No. of papers published in peer reviewed Journals	Number of publications listed in International Database	Chapter in Books	Books Edited	Books with ISBN/ISSN numbers	SNIP	Impact factor	h-index
1	Mr.B.S.Bisht	NIL	2	NIL	NIL	NIL	NIL	5.5	NIL
2	Mr.Lalit Kumar	NIL	3	6	2	978-93-5009-752-9, 978-93-5099-199	NIL	5.5	NIL

3	Ms.ShrutiValunjkar	NIL	2	NIL	NIL	NIL	NIL	NIL	NIL
4	Mr.M.K.Shakya	NIL	1	6	2	978-93-5009-752-9, 978-93-5099-199-2	NIL	NIL	NIL
5	Mr.A.L.Nehete	NIL	3	6	4	978-93-5077-476-2 , 978-93-5224-106-4, 978-93-5077-953-8, 978-93-5077-574-5	NIL	NIL	NIL
6	Mr.RohitV.Katre	NIL	2	NIL	NIL	NIL	NIL	NIL	NIL
7	Mr.Gururaj.Talewad	NIL	1	NIL	NIL	NIL	NIL	NIL	NIL
8	Mrs.DebripuHore	NIL	4	NIL	NIL	NIL	NIL	NIL	NIL
9	Mrs.NetraLokhande	NIL	10	NIL	NIL	978-93-5009-752-9, 978-93-5099-199-2	NIL	NIL	NIL
10	Ms.JayshreeDeka	NIL	1	NIL	NIL	NIL	NIL	NIL	NIL
11	Mr.Anup G. Dakre	NIL	6	NIL	NIL	NIL	NIL	NIL	NIL
12	Mr.Sachin Sarwade	NIL	1	NIL	NIL	NIL	NIL	NIL	NIL
13	Ms.P.Smitha	NIL	1	NIL	NIL	NIL	NIL	NIL	NIL

b) Publication per Student

SN	Name of student	No. of papers published in peer reviewed	Number of publications listed in International Database	Chapter in Books	Books Edited	Books with ISBN/ISSN numbers	SNIP	Impact factor	h-index
1	Sujit Desai	NIL	1						
2	Nikhil Lalpurwala	NIL	1						
3	VinayakSalunke	NIL	1						
4	JitendraSonu	NIL	1						
5	SushantRenuse	NIL	1						
6	AnamikaKumari	NIL	1						
7	PravinShendge	NIL	1						
8	TruptiPasalkar	NIL	1						
9	KuldipPawar	NIL	1						
10	RohitPawar	NIL	1						
11	MutthaDarshan	NIL	1						
12	DhanwadeAkshay Kailas	NIL	1						
13	Manoj Yewale	NIL	1						

14	Rohitkamble	NIL	1						
15	WaghYogesh	NIL	1						
16	RatnaparkhiAnand	NIL	1						
17	KanherkarSagar	NIL	1						
18	Mahindrakarsumitsanjay	NIL	1						
19	Ebhadshekhharvasant	NIL	1						
20	Mahadikchetangokuldas	NIL	1						
21	Ghodkesachinlaxman	NIL	1						
22	SayedJunaidGaus	NIL	2						
23	AousafAhamadMavesChaudhari	NIL	2						
24	BhosaleRupeshRajendra	NIL	1						
25	ChavanAkshayKiran	NIL	1						
26	NalawadeOmkarHanumanant	NIL	1						
27	GauravAtulLohite	NIL	1						
28	BodadeAmolDnyaneshwar	NIL	1						
29	DudheYogeshBhagwat	NIL	1						
30	Nikhil RavindraMahajan	NIL	1						

31	NavalagiBasavarajRudrani	NIL	1						
32	PalveAvinashRajendra	NIL	1						
33	DhanwadeAkshay Kailas	NIL	1						
34	ChopdeRiteshVinayak	NIL	1						
35	JawaleParagKishor	NIL	1						
36	DeshmukhAshwiniTana ji	NIL	1						
37	ShindeGauriRavindra	NIL	1						
38	AglawePandharinathManohar	NIL	1						
39	Mane SwapnilAnanda	NIL	1						
40	Mali BhairavanathNamdev	NIL	1						
41	PatilAkash Vijay	NIL	1						
42	ShindeChaitanyaRavendra	NIL	1						

20. Areas of consultancy and income generated: NIL

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

SN	Name of Faculty	Members
1	Mr.RohitKatre	Institute of Engineers India (AM142771-5)
2	Mr. B. S.Bisht	International Association of Engineering and Management Education (FM10080)

SN	Membership	Total no. of member
1	Institute of Engineers India (IEI)	1
2	Indian Society for Technical Education (ISTE)	13
3	International Association of Engineering and Management Education	1

22. Student projects

a) Percentage of students who have done in-house projects including interdepartmental/programme

SN	Year	No. of In-house Projects	% of In-house Projects
1	2016-2017	18	87%
2	2015-2016	19	90%
3	2014-2015	11	92%
4	2013-2014	13	76%

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

SN	Year	No. of Projects in Collaboration	% of Projects done in Collaboration
1	2016-2017	3	14%
2	2015-2016	2	10%
3	2014-2015	1	08%
4	2013-2014	4	24%

23. Awards/Recognitions received by faculty and students

a) Faculty:

SN	Name of Faculty	Year of Achievement	Achievement/ Recognition
1	Mr. M. K. Shakya	2016-2017	100% result of HVE
2	Mr..Lalit Kumar	2015-2016	100% result of R&D
3	Mr.Lalit Kumar	2015-2016	100% result Of SGP
4	Mr. A. L. Nehete	2015-2016	100% result of SG
5	Mr. A. L.Nehete	2015-2016	100% result of PGT
6	Mr. A. G.Dakre	2014-2015	100% result of plc-scada

7	Mr. R. V. Katre	2014-2015	100% result of RES
8	Mr. R. V. Katre	2014-2015	100% result of ITM
9	Mr. M. K. Shakya	2014-2015	100% result of SG
10	Mr.Lalit Kumar	2013-2014	100% result of EIMT
11	Mr. A. G. Dakre	2013-2014	100% result of plc-scada
12	Ms.Smitha P.	2013-2014	100% result of SG
13	Ms.D.Hore	2013-2014	100% result of PSOC
14	Mr.Lalit Kumar	2013-2014	100% result of SGP
15	Ms.D.Hore	2012-2013	100% result of PS II
16	Mr.A.Pathak	2012-2013	100% result of EAM
17	Mr.A.Pathak	2012-2013	100% result of EEM
18	Mr.Lalit Kumar	2012-2013	100% result of EIMT
19	Mr. B. S. Bisht	2012-13	Certificate of appreciation in recognition for excellent and great team work for GISFI – WWRF Workshop 2012

b) Student's Prizes

SN	Year	Activity	State/ National/ International level No. of Prizes Won
1	2016-17	Carrom	State Level Winner
2	2016-17	Carrom	State Level Runner up
3	2016-17	Kabaddi	State Level Runner up
4	2016-17	Counter Strike	State Level Winner
5	2016-17	Vishwanath Sports Meet-2017	State Level Runner Up Team Member
6	2016-17	Inter Collegiate Sports, Boxing (56-60 Kg)	State Level Third Place
7	2016-17	GRAVITY-17, National Level Project Expo	State Level Second Place
8	2015-16	Project Exhibition	National Level 1st Prize
9	2015-16	Gravity 2K16 Project Exhibition	National Level 1st Prize
10	2015-16	Samviti-16 Project Exhibition	National Level 1st Prize
11	2015-16	Technovision-16 Project Exhibition	National Level 2 nd Prize
12	2015-16	Robo-Kreiger	State level

			1st Prize
13	2015-16	Circuit Designing	State level 1st Prize
14	2015-16	Robo Race	State level 1st Prize
15	2015-16	Treasure hunt	State level 1st Prize
16	2014-15	Carom Sports	State level 2 nd Prize
17	2014-15	Vishwa Vertex (Paper Presentation)	State level 1st Prize
18	2014-15	Moto -Solar	State level 1st Prize
19	2013-14	Project Competition (Vishwa Vertex)	State level 1st Prize
20	2013-14	Kabbadi	State level Runner up
21	2013-14	Badminton	State level Runner up
22	2013-14	Dance Competition	State level Winner
23	2012-13	Aeromodelling	State level 1st Prize
24	2012-13	University of Pune Cricket	State level Winner

c) Students Appreciations

SN	Year	Name of Student	Appreciations
1	2014-15, 2015-16, 2016-17	Ms.JyotiSaudagarThombare	Received scholarship of Rs. 45,000 for 3 years from Lila Poonawala Foundation

24. List of eminent academicians and scientists/visitors to the department

SN	Date of Visit	Name of Visitors	Organization	Purpose of visit
1	2016-2017	Mr.S. Ramanathan	CEO of Walchand InfoTech	Alumni Meet
2	2015-16	Mr. Anil Kolap	Superintendent Engg MAHATRANSCO	Guidance to faculty & students
3	2014-15	Dr. S.M. Bakre	MAHATRANSCO	Guidance to faculty & students

4	2013-14	Dr.H.K. Abhyankar	Vice President of B R Agarwal Charitable Trust	Guidance to faculty & students
5	2012-13	Dr, Ashok Ghatol	Ex-Vice Chancellor of BATU	Guidance to faculty & students

25. Seminars/ Conferences/Workshops organized and the source of funding:

A) National:

a) Conferences

SN	Dates	National conference	Sponsors
1	March 15 th – 16 th 2017, Pune	IETE Approved 2nd National Conference on Signal Processing, Computer Modelling, Structural and Mechatronics (NCSPCMSM-2K17)	SPPU (1,50,000/-) UBI (50,000/-)
2	March 11 th – 12 th 2016, Pune	IETE Approved National Conference on Signal Processing, Computer Modelling and Mechatronics (NCSPCM2-2K16)	UBI (50,000/-), ACE Academy (30,000/-)

b) Workshops: NIL

c) Seminars: NIL

d) Faculty Development Programme(National):NIL

B) International: Conferences / Seminars /Workshops/FDP:NIL

26. Student profile Programme /Course wise:

Name of the Course/ Programme	Academic Year (Graduation)	Applications Received	Selected	Enrolled		Pass % In BE Class
				M	F	
	2016-2017	As per the admission process of DTE	74	64	10	94
	2015-2016		71	64	7	81.7
	2014-2015		75	61	14	100
	2013-2014		74	66	8	
	2012-2013		39	38	1	

M-Male F-Female

27. Diversity of Students

Name of the Course/ Programme	Academic Year	% of students from the same state	% of students from the other states	% of students from abroad
UG BE (Electrical)	2016-2017	100%	NIL	NIL
	2015-2016	100%	NIL	NIL
	2014-2015	100%	NIL	NIL
	2013-2014	99.42%	0.58	NIL
	2012-2013	100%	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Exam	No. of Students				
	2012-13	2013-14	2014-15	2015-16	2016-17
Gate	NIL	03	01	NIL	NIL
MBA-CET	NIL	01	01	NIL	NIL

29. Student progression

Student progression	Against % enrolled				
	2012-13	2013-14	2014-15	2015-16	2016-17
UG-PG	NA	5.17%	NIL	NIL	NIL
PG to Ph.D. etc	NA	NIL	NIL	NIL	NIL
Ph.D. to Post Doctoral	NA	NIL	NIL	NIL	NIL
Employed	NA	43.85%	28.12%	21.66%	NIL
Campus Selection	NA	8.77%	2.56 %	0	NIL
Other than Campus Recruitment	NA	35.08%	23%	16.66%	NIL
Entrepreneurship / Self Employment	NA	NIL	NIL	5%	NIL
Government Sector	NA	NIL	2.56 %	NIL	NIL

30. Details of Infrastructural facilities**a) Library**

Particulars	Titles	Volumes
Books	374	1313
On line Journal	Elsevier-1, Science direct-275	NIL
Printed Journal	0	NIL

b) Internet facilities for Staff & Students:

Internet line 50 Mbps dedicated for all computer terminals of the Department

c) Class rooms with ICT facility

Total LCD	Audio Video visual systems
3	1

d) Laboratories:

SN	Name of Laboratory	Exclusive Use / Shared	Laboratory Manuals
1	Electrical Machine Lab	Exclusive	Available
2	High Voltage Lab	Exclusive	Available
3	Computer Lab	Shared	Available
4	Electrical Measurement Lab	Exclusive	Available
5	Switch Gear and Protection Lab	Exclusive	Available
6	Electrical Power System Lab	Exclusive	Available
7	Material Science Lab	Exclusive	Available
8	Electrical Network Lab	Exclusive	Available
9	Power Electronics	Exclusive	Available
10	Electrical drives lab	Exclusive	Available
11	Analog Digital Electronics Lab	Exclusive	Available
12	PLC SCADA Lab	Exclusive	Available
13	Microcontroller & Microprocessor Lab	Exclusive	Available
14	Basic Electrical Engg. Lab	Exclusive	Available
15	Control Systems Lab	Exclusive	Available

31. Number of students receiving financial assistance from college, University, government or other agencies

SN	Type of Assistant	Agency Providing Financial Assistance	Academic Year				
			2012-13	2013-14	2014-15	2015-16	
1	GOI PM Scholarship	Social Welfare Dept. & Tribal Development dept	45	84	84	110	67
2	EBC Concession	Jt. Director of Tech. Education	36	52	71	74	72
3	Minority Scholarship	Dept. of Minority Welfare	00	00	00	02	03
4	Pvt. Scholarship	Trust, NGO, Companies, etc.	00	00	00	01	00

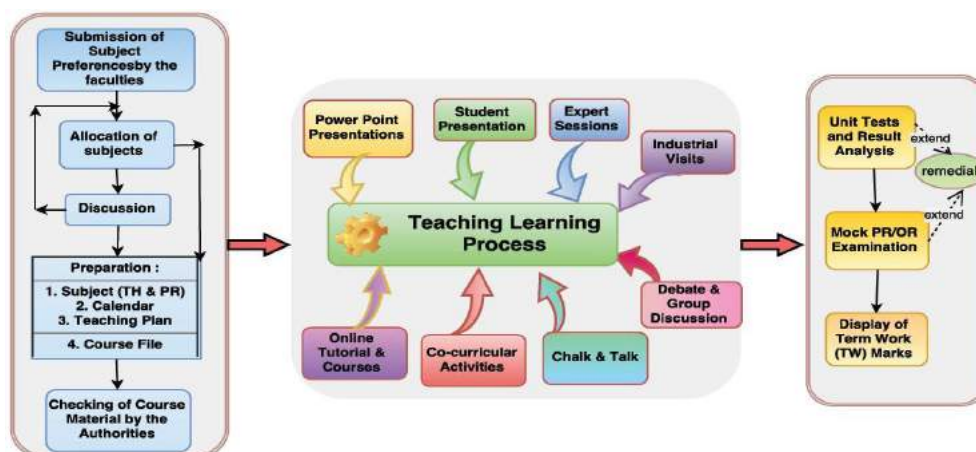
32. Details on student Enrichment Programs (special lectures / workshops / seminar) with external experts

SN	Title	Resource Person Details	Category	Date		No. of students
				From	To	
1	Switch gear and protection	W.Z.Gandhare	Expert lecture	22/12/2016	22/12/2016	50
2	Workshop on PLC – SCADA	Mr.SachinKadam and Associates	workshop	19/09/2017	23/09/2017	76
3	Workshop on AUTOCAD	APEX CAD/CAMGUR U Solutions PVT. LTD	workshop	22/02/2017	25/2/2017	50
4	C Programing	Mr.AjitPagar KJCOEMR	workshop	16/1/2017	18/01/2017	74
5	Workshop on AUTOCAD	APEX CAD/CAMGUR U Solutions PVT. LTD	workshop	8/03/2016	12/3/2016	80
6	Seminar on High voltage power transmission	Mr. Anil Kolap	Expert lecture	15/09/15	15/09/15	100
7	Workshop on PLC – SCADA	Prolific system and technologies PVT.LTD	workshop	1/9/2015	4/9/2015	57
8	Seminar on	Dr.S.M.Bakare	Expert	15/09/14	15/09/14	100

	National power grid		lecture			
9	Workshop on PLC – SCADA	Prolific system and technologies PVT.LTD	workshop	14/07/2014	18/07/2014	35
10	Seminar on Advanced micro-controller	Prof.KakadeSuh as	Expert lecture	10/07/14	10/07/14	82
11	Workshop on AUTOCAD	APEX CAD/CAM/URU Solutions PVT. LTD	workshop	28/12/2014	02/01/2015	60
12	Workshop on PLC – SCADA	Prolific system and technologies PVT.LTD	workshop	09/07/2013	13/07/2013	55
13	Workshop on MATLAB	PANTECH SOLUTIONS PVT. LTD	workshop	22/01/2013	23/01/2013	58
14	Workshop on Advance Embedded System	PANTECH SOLUTIONS PVT. LTD	workshop	17/09/2012	18/09/2012	58

33. Teaching methods adopted to improve student learning

- LCD projector in the classroom
- Mini-projects
- Innovative Labs
- Models, chart etc
- Industrial visits
- Expert lectures
- Subjects are allocated based on preferences & result by the HOD
- Before finalization of the subject open discussion takes place with all the faculties
- Academic calendar is finalized before semester started



34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

SN	Activity	Venue of event	Date of activity	No .of students
1	Tree plantation	KJCOEMR Campus	A.Y.2015-16	42
2	Teachers day	Dept of electrical Engg.(KJCOEMR)	5/09/2015	51
3	Tech fest-solaris	Dept of electrical Engg.(KJCOEMR)	A.Y.2014-15	72
4	Gravity	Dept of electrical Engg.(KJCOEMR)	A.Y.2014-15 &A.Y.2015-16	121
5	Tech fest(Circuit design)	Dept of electrical Engg.(KJCOEMR)	A.Y.2013-14	30

Apart from above activities our students are also involved in conduction of various activities such as blood donation, NSS.

35. SWOC analysis of the department and Future plans:

Strengths:

- Young, Energetic, Hardworking and Committed Faculty
- Well equipped laboratories with latest equipments and machinery.
- Active students associations like EESA, IEI student's chapter to fuel the co curricular& extracurricular development of the students.
- Student mentoring and teacher's feedback mechanism.
- Faculty has authored various books on different subjects..

- Expert talks, value added courses, soft skill programs and industrial visits are regularly organized for student's professional development

Weaknesses:

- Inadequate number of PhD qualified faculty
- Number of research publication in reputed journals.
- Admission of low merit students. It not only impacts results but also requires
- Exceptional efforts to make them industry ready engineers.

Opportunities:

- Collaboration with leading Electrical research institutions and industries for research projects and consultancy.
- Encouragement to upgrade faculty qualification.
- Gear up students for competitive exams like GATE, CAT, GRE, TOEFEL etc
-
- To improve the soft skills of the students to make them ready to face interviews.

Challenges:

- Improve the merit ranking of admitted students.
- Impart professional and soft skills to the students from rural background to make them employable up to the corporate expectation.
- Develop MoU with various core electrical industries and R & D institutions.

Future Plans:

- Arrange industrial training programs of 8-15 days at the end of each semester from S.E to B.E to give them practical exposure and enhance their professional skills.
- Organize National/International conference/STTP/FDP on latest development in the electrical and allied engineering.
- Build an alliance with the national organizations for academic development.
- To increase utilization of more renewable energy.
- To set up Research Center facility in our department.

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Department of Engineering Sciences

1. **Name of the Department : Engineering Science**
2. **Year of Establishment : 2009-2010**
3. **Names of Programmes / Courses offered (UG, PG, etc.) :-** Department of Engineering Science runs First Year (F.E.) of all five undergraduate programs

Name of programme	Year of Establishment
U.G Program (240)	2009-2010
U.G Program (Additional 120) Total (360)	2010-2011
U.G Program (Additional 120) Total (480)	2011-2012
U.G Program (Additional 60) Total (540)	2014-2015

4. **Names of Inter disciplinary courses and the departments/units involved:**

SN	Class	Inter Disciplinary Courses	Departments involved
1	FE	Engineering Graphics-I (102006)	Mechanical Engg.
2	FE	Basic Electrical Engineering (103004)	Electrical Engg.
3	FE	Basic Electronics Engineering (104012)	Electronics & Telecommunication Engg.
4	FE	Basic Civil and Environmental Engineering (101005)	Civil Engg.
5	FE	Fundamentals of Programming Languages I (110003)	Computer Engg.
6	FE	Workshop Practice (111007)	Mechanical Engg.
7	FE	Basic Mechanical Engineering (102013)	Mechanical Engg.
8	FE	Engineering Mechanics (101011)	Civil Engg.
9	FE	Fundamentals of Programming Languages II (110010)	Computer Engg.
10	FE	Engineering Graphics II (102014)	Mechanical Engg.

5. **Annual/ semester/choice based credit system (Programme wise):**
UG: Semester Pattern (Credit system implemented for FE from A.Y.2015)

6. Participation of the department in the courses offered by other departments:

SN	Class	Courses	Departments involved
1	SE	Engineering Mathematics-III	Mechanical Engg.
2	SE	Engineering Mathematics-III	Civil Engg.
3	SE	Engineering Mathematics-III	Electrical Engg.
4	SE	Engineering Mathematics-III	Computer Engg.
5	SE	Engineering Mathematics-III	Electronics & Telecommunication Engg.
6	BE	Statistical Analysis and Computational Methods in Civil Engineering (Elective-IV- 401 010)	Civil Engg.
7	ME	Advanced Mathematics	ME (Design) Mechanical Engg.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:- NA**8. Details of courses/ programmes discontinued (if any) with reasons:** NIL**9. Number of teaching posts:-**

Teaching Post	Sanctioned	Filled
Professors	01	01
Associate Professors	01	02
Asst. Professors	07	06

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./ M.Phil. etc.,)

(Considering teaching faculty of Engineering Mathematics, Engineering Physics, Engineering Chemistry & Electronics)

SN	Name Of Faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students
1	Dr. H. R. Kulkarni	M.Sc. Ph.D (Physics)	Professor (Physics)	Physics	27	02
2	Dr. P. N. Deshmukh	M.Sc. Ph.D (Organic Chemistry)	Associate Professor (Chemistry)	Chemistry	10	-

3	Mr. S. B. Kapure	M.Sc.NET (PhD Pursuing)	Assistant Professor (Chemistry)	Chemistry	07	-
4	Dr. Ruma Saha	M.Sc.Ph.D	Assistant Professor (Mathematics)	Mathematics	05	-
5	Ms. P. C. Jadhav	M.Sc.SET	Assistant Professor (Mathematics)	Mathematics	11	-
6	Mr. S. C. Sahane	M.Sc.	Assistant Professor (Mathematics)	Mathematics	06	-
7	Mrs. A. D. Jadhav	M.Sc.	Assistant Professor (Mathematics)	Mathematics	10	-
8	Mrs. P. P. Chavan	ME (Electronics)	Assistant Professor (Electronics)	Digital Electronics & Image Processing	14	-
9	Mrs. V. S. Mulik	M.Sc.	Assistant Professor visiting (Physics)	Physics	12	-

11. List of senior visiting faculty:- NIL

12. Percentage of lectures delivered and practical classes handled (programmewise) By temporary faculty:- NIL

13. Student-Teacher Ratio (programme wise) : (15:1)
(Calculated by considering faculty teaching to first year)

SN.	Programme	Specialization	Student –Teacher Ratio				
			2016-2017	2015-2016	2014-2015	2013-2014	2012-2013
1	UG	All Branches	15:1	15:1	15:1	14:1	14:1

14. Number of Academic support staff (technical) and administrative staff; sanctioned and filled

Academic Support Staff	Sanctioned	Filled
Technical and Non Technical	3	2

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/Mphil/PG.

SN	Qualification	No. of Teaching Faculties
1	Ph.D. Completed	03
2	M.Sc. (NET/SET)/M.E. / M.Tech Completed (Ph.D. Pursuing)	02
3	M.Sc (NET/SET)	01
4	M.Sc./M.E. / M. Tech Completed	03
Total		09

16. Number of faculty with ongoing projects from

a) National : NIL

b) International funding agencies and grants received :- NIL

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received :- NIL**18. Research Centre/facility recognized by the University:- NIL****19. Publications:****a) Publication per faculty**

S N	Name of Faculty	No. of papers published in peer reviewed Journals	Number of publications listed in International Database	Monographs	Chapter in Books	Books Edited	Books with ISBN/ISSN numbers	Citation Index	SNIP	SJR	Impact factor	h-index
1	Dr. H. R. Kulkarni						01(ISBN978938357215)	3				1
2	Dr. P. N. Deshmukh						02 (ISBN 978-93-83572-30-4 & ISBN-978-93-83-57-2984)					
3	Mr.S. B.Kapure						02 (ISBN 978-93-83572-30-4 & ISBN-978-93-83-57-2984)					

4.	Dr.Ruma Saha	02-IJAM SS& IJSR P (ISS N-2319-3980) & (ISS N-2250-3153)								02 (JCC - 3.98 76 & SJ- 3.27)	
5.	Mrs.P. P. Chavan	06-(ISS N-2320-8961) , (ISS N-2319-1163) , (ISS N-2278-0181) , (ISS N-2278-0181) , (ISS N-2278-2834) , (ISS N-2194-5357)	02-(ISB N-978-1-4673 - 7832 -1), (ISB N-978-1-4799 - 6272 -3),								

b) Publication per Student :- NIL**20. Areas of consultancy and income generated: NIL****21. Faculty as members in****a) National committees b) International Committees c) Editorial Boards....**

SN	Name of Faculty	National committees	International Committees	Editorial Boards
1	Dr. H. R. Kulkarni	ISCA(L8548),ISTE,IAPT,AZI	NIL	NIL
2	Dr. P. N. Deshmukh	ISTE(LM 55829)	NIL	NIL
3	Dr.Ruma Saha	ISTE(LM118858)	NIL	NIL
4	Ms. P. C. Jadhav	ISTE(LM118856)	NIL	NIL
5	Mrs. A. D. Jadhav	ISTE(LM118857)	NIL	NIL
4	Mrs.P. P. Chavan	ISTE(LM118908), IETE(AM237159)	NIL	NIL

22. Student projects**a) Percentage of students who have done in- house projects including inter departmental/ programme : NIL****b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: NIL****23. Awards/Recognitions received by faculty and students****a) Faculty:**

SN	Year	Name of Faculty	Appreciation
1	2017-18	Prof. P. C. Jadhav	Qualified SET Exam
2	2016-17	Mrs.P. P. Chavan	Gravity 2k17 Award

b) Student's Prizes: NIL**c) Students Appreciations:**

SN	Year	Name of Student	Appreciations
1	2012-13	NIL	
2	2013-14	NIL	
3	2014-15	Janhavi Dhairyasinh Katkar	Lila Poonawala Scholarship
		Shilpa Gore	Persistant Scholarship

		Ashish Panchal	Winner, CCNA Competition, (IIT Delhi) at KJCOEMR
		Hatim Hunedbhai Chathiwala	Participants, CCNA Competition (IIT Delhi) at KJCOEMR
		Abbasali Habibbhai Antelawala	
		Baing Kiran Nilesh	
4.	2015-16	NIL	
5.	2016-17	Dheeraj Dttatraya Bhapkar	Runner up (Member of KJCOEMR Cricket Team in MIT Sports Meet 2017)
		Dheeraj Bhapkar & Team	Runner up (KJEI’s “MAIDAN 2017”
		Shruti Dandekar & Group	Winner (Dramma KJEI’s “MALHAR-17”
6.	2017-2018	Shaikh Faizan Aziz	Participants (Battle Zone, AISSMSOE)
		Sayyed Afridi Ameerhaza	
		Shaikh Saad	
		Shaikh Kashif Irfan	

24. List of eminent academicians and scientists/visitors to the department:

SN	Name of Visitors	Organization	Purpose of visit
1	Dr. M. S. Sutaone	Dean, Academic Affairs, COEP, Pune	Key note address NCSPCMSM – 2K17
2	Dr. A. A. Ghatol	Former Vice chancellor, BATU	Chief guest for student orientation
3	Dr. Vijay Bhatkar	Retd from Govt.	Chief Guest NCSPCM2 – 2K16

4	Dr. Hemant Abhyankar	Director, VIIT, Pune	Chief guest for student orientation
5	Dr. S. P. Saptale	Associate Professor, Sinhgad Academy of Engg., Pune	Expert Lecture
6	Prof. M. R. Tarambale	HOD, Electrical Dept., MMCOE, Pune	Expert Lecture
7	Mr. Bhushan Ahire	First Ranker in MPSC Exam.	Chief guest for student orientation
8	Mr. D. A. Bhagwat	Registrar and Assistant Professor, DYP, Akurdi.	Expert Lecture
9	Mr. Pramod U. Chavan	Dean Academics & HoD, E&TC, KJCOEMR	Expert Lecture
10	Mrs. Shweta Kadu	SHETA's Japanese Language Accademy	Resource Person for workshop on "Introduction to Japanese Language"

25. Seminars/ Conferences/Workshops organized and the source of funding:

A) National:

a) Conferences :

1	Signal Processing, Computer Modeling and Mechatronics (NCSPCM2 – 2K16)	11 th -12 th March 2016	National	IETE, UBI (50,000/-), ACE Academy (30,000/-)
2.	Signal Processing, Computer Modeling, Structural and Mechatronics (NCSPCSM2 – 2K17)	16 th -17 th March 2017	National	IETE, IJCA, SPPU (1,50,000/-), UBI (50000/-)

b) Workshops :

1.	Introduction to Japanese Language	15 th September 2017	National	Institute
----	-----------------------------------	---------------------------------	----------	-----------

c) Seminars : NIL

d) Faculty Development Programme :

B) International:

a) Conferences : NIL

b) Workshops : NIL

c) Seminars : NIL

d) Faculty Development Programme : NIL

26. Student profile Programme /Course wise:

Name of the Course/ Programme	Academic Year (Graduation)	Applications Received	Selected	Enrolled		Pass
				M	F	
UG	2012-2013	Admission process is as per the rules and regulation of DTE	298	252	46	74.49
	2013-2014		217	190	27	84.79
	2014-2015		273	248	25	59.34
	2015-2016		147	125	22	60.54
	2016-2017		84	70	14	66.66
	2017-2018		75	57	18	-

M-Male F-Female

27. Diversity of Students:

Name of the Course/ Programme	Academic Year	% of students from the same state	% of students from the other states	% of students from abroad
UG	2017-2018	94.66	5.33	NIL
	2016-2017	92.85	7.14	NIL
	2015-2016	95.23	4.76	NIL
	2014-2015	98.53	1.46	NIL
	2013-2014	94.93	5.06	NIL
	2012-2013	95.30	4.60	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : NA

29. Student progression : NA

30. Details of Infrastructural facilities**a) Library**

Particulars	Titles	Volumes
Books		
U.G.	316	1272
On line Journal	-	-

Printed Journal	-	-
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b) Internet facilities for Staff & Students: Internet line- 50Mbps dedicated for computer lab and Wi-Fi connectivity.

c) Class rooms with ICT facility

All class rooms are spacious and well equipped with the necessary infrastructure (LCD projectors, Audio/video visual aids with internet etc.) for the conduction of effective Teaching –Learning Process.

d) Laboratories:

SN	Name of Laboratory	Exclusive Use / Shared	Laboratory Manuals
1	Engineering Physics	Exclusive	Available
2	Engineering Chemistry	Exclusive	Available

31. Number of students receiving financial assistance from college, University, government or other agencies

SN	Type of Assistant	Agency Providing Financial Assistance	Academic Year				
			2012-13	2013-14	2014-15	2015-16	2016-2017
1	College		-	-	-	-	-
2	University	Earn & Learn Scheme	NIL	NIL	04	03	NIL
3	Government	Fee Regulating Authority	182	130	164	87	50
4	Other	Social	-	-	02	-	-

32. Details on student Enrichment Programs (special lectures / workshops / seminar) with external experts

SN	Title	Resource Person Details	Year	No. of students
1.	Guest Lectures	Mr. Rajesh.Chavan	2013-2014	90
		Mr.Vijay Navale	2014-2015	120
		Mr. Rajesh.Chavan	2015-2016	80
		Mr.Pramod U.Chavan	2016-2017	81
		Dr. S. P. Saptale	2016-2017	72

		Prof. M. R. Tarambale	2016-2017	38
		Mr. D. A. Bhagwat	2017-2018	34
		Mr.Pramod U.Chavan	2017-2018	34
2.	Workshop (Introduction to Japanese Language)	Mrs. Shweta Kadu	2017-2018	68

33. Teaching methods adopted to improve student learning

- Assignments and prelims examination: Assignments are given on very first day of Academic Semester to make students familiar with the problems asked during examination and prelim examinations are conducted to prepare them for the University examinations.
- Feedback Analysis: Feedback is a key tool which is used for continuous improvement in the quality of teaching-learning process. The feedback is taken from students and parents in order to analyze and implement their suggestions.
- Department has initiated FDP (Faculty Development Programme) for every subject. The senior faculty members guide the other faculty members of the subject in understanding the fundamentals. Common strategies are finalized by senior faculty.
- Power point presentations are used by faculty for delivery of subject matters.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- NSS activities.
- Blood Donation Camp.
- Swacch Bharat Abhiyaan.
- Tree Plantation
- Teachers Day

35. SWOC analysis of the department and Future plans:

Strengths:

- Well- equipped laboratory.
- Multi-disciplinary faculty
- Strong Academic Monitoring
- Continuous Counseling made through Guardian Faculty Memebrrs.

Weaknesses:

- Teaching one subject over and over again for years together is uninspiring
- Less contribution of students in industrial training.

Opportunities:

- It is highly educative to interact with a student from FE with fresh ideas and outlook
- Faculty up-gradation
- To become Centre of Excellence for moulding young minds.

Challenges:

- Understanding students of new generation to fit into engineering education
- Attract meritorious students.
- Bridging the academic gap and bringing the FE students belongs to diverse academic, social and regional backgrounds on a common platform

Future Plans:

- To give experiential learning to students and to develop research culture
- To encourage faculty for qualification improvement
- Introduction of mini-projects for FE students

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All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. Western/1-2809498204/2016/EOA

Date: 05-Apr-2016

To,

The Secretary,
Tech. & Higher Education Deptt.
Govt. of Maharashtra, Mantralaya,
Annexe Building, Mumbai-400032

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

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	1-2809498204
Name of the Institute	K J COLLEGE OF ENGINEERING & MANAGEMENT RESEARCH	Permanent Id	1-4917161
Name of the Society/Trust	KJ'S EDUCATIONAL INSTITUTE	Institute Address	SURVEY NO. 25&27 , PISOLI, NEAR BAPDEO GHAT, POST- YEWALEWADI TAL : HAVELI DIST : PUNE -411048, PUNE, PUNE, Maharashtra, 411048
Institute Type	Unaided - Private	Society/Trust Address	PURANDAR COMPLEX 2ND FLOOR MUKUND NAGAR PUNE 411 030, PUNE, PUNE, Maharashtra, 411030

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	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 2016-17

Application Id: 1-2809498204			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twinning Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER ENGINEERING	FULL TIME	University of Pune, Pune	24	24	NA	NA	NA



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GY		TE								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER NETWORKS	FULL TIME	University of Pune, Pune	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	DESIGN ENGINEERING	FULL TIME	University of Pune, Pune	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	STRUCTURAL ENGINEERING	FULL TIME	University of Pune, Pune	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UG 2nd Yr DIRECT	ELECTRONICS & TELE-COMMUNICATION ENGINEERING	FULL TIME	University of Pune, Pune	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UG 2nd Yr DIRECT	MECHANICAL ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL ENGINEERING	FULL TIME	University of Pune, Pune	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & TELE-COMMUNICATION ENGINEERING	FULL TIME	University of Pune, Pune	60	60	NA	NA	NA
	1st	UND	MECHANICAL	FULL	University of	180	180	NA	NA	NA

Application Number: 1-2809498204

Note: This is a Computer generated Report.No signature is required.

Page 2 of 3
Letter Printed On:23 April 2016

Printed By : ae977941

Page



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ENGINEERING AND TECHNOLOGY	Shift	ER GRADUATE	ENGINEERING	TIME	Pune, Pune					
----------------------------	-------	-------------	-------------	------	------------	--	--	--	--	--

The above mentioned approval is subject to the condition that K J COLLEGE OF ENGINEERING & MANAGEMENT RESEARCH 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.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:

- The Regional Officer,**
All India Council for Technical Education
Industrial Assurance Building
2nd Floor, Nariman Road
Mumbai - 400 020, Maharashtra
- The Director Of Technical Education,**
Maharashtra
- The Registrar,**
University of Pune, Pune
- The Principal / Director,**
K J COLLEGE OF ENGINEERING & MANAGEMENT RESEARCH
SURVEY NO. 25&27 , PISOLI, NEAR BAPDEO GHAT, POST- YEWALEWADI TAL : HAVELI DIST : PUNE -411048,
PUNE,PUNE,
Maharashtra,411048
- The Secretary / Chairman,**
KJ'S EDUCATIONAL INSTITUTE
PURANDAR COMPLEX 2ND FLOOR MUKUND NAGAR PUNE 411 030,
PUNE,PUNE,
Maharashtra,411030
- Guard File(AICTE)**

दूरध्वनी क्रमांक :

०२०-२५६९१२३३

२५६०१२५७

२५६०१२५८

२५६०१२५९



15120107

सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)



टेलिग्राफ :

'युनिपुणे'

फॅक्स :

०२०-२५६९१२३३

वेबसाइट :

www.unipune.ac.in

ई-मेल :

dyracademic@unipune.ac.in

शैक्षणिक विभाग

गणेशखिंड, पुणे-४११००७.

संदर्भ क्र.: CA/998

दि.: 03/05/2016

प्रति,

मा. प्राचार्य,

के जे एज्युकेशनल इन्स्टिट्यूट के.जे. कॉलेज ऑफ

इंजिनियरिंग अँड मॅनेजमेंट रिसर्च पत्ता: के जे कॉलेज

ऑफ इंजिनियरिंग अँड मॅनेजमेंट रिसर्च सर्वे नंबर

२५/२७ पोस्ट ऑफीस एवळेवाडी पिसोळी

बापदेवघाटजवळ ता हवेली जि पुणे ता.: हवेली(महानगर

पालिका हद्द वगळून) जि: पुणे

विषय:- अटीच्या पूर्ततेच्या पडताळणी अहवालबाबत...

महोदय,

वरील विषयासंदर्भात विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार आपणास कळविण्यात येते की, आपल्या महाविद्यालयास शैक्षणिक वर्ष २०१६-२०१७, या वर्षाकरिता खालील रकान्यात नमूद केलेल्या अभ्यासक्रमांच्या संलग्नीकरणाच्या नुतानिकरणास / नैसर्गिकवादीस अखिल भारतीय तंत्रशिक्षण परिषद, नवी दिल्ली व तंत्रशिक्षण संचालनालय, महाराष्ट्र शासन यांचे अभ्यासक्रम व प्रवेश क्षमता मान्यतेच्या अधीन राहून अटी पूर्ततेचा पडताळणी अहवाल स्वीकारण्यात आलेला आहे.

शैक्षणिक वर्ष २०१६-२०१७ करिता अटी पूर्तता अहवालाचे पत्र देत असताना स्थानिक चौकशी समितीच्या अहवालात नमूद केलेल्या ज्या शिक्षकांच्या तदर्थ नेमणुका करण्यात आलेल्या आहेत अशा सर्व शिक्षकांना शैक्षणिक वर्ष २०१६-२०१७ मध्ये कायम ठेवण्यात यावे.तसेच याबाबत विद्यापीठांमार्फत वेळोवेळी तपासणी करण्यात येईल.

अनु. क्र.	अभ्यासक्रमाचा तपशील	विद्यार्थी संख्या	प्रथमपाळी/द्वितीय पाळी	संलग्नीकरणाचा प्रकार
1	एम.इ. (कॉम्प्युटर)	24	2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1,,	नूतनीकरण
2	एम.इ. (मेकॅनिकल डिझाइन)	24	2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1,,	नूतनीकरण
3	एम.इ. (सिविल) स्ट्रक्चरल इंजिनियरिंग	24	2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1,,	नूतनीकरण
4	एम.इ. कॉम्प्युटर (कंप्युटर नेटवर्क)	24	2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1,,	नूतनीकरण
5	बी.ई. (इलेक्ट्रिकल)	60	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,,	नूतनीकरण
6	बी.ई. (इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन)	120	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,- वर्ष द्वितीय ते चतुर्थ- थेट दुसरे वर्ष Div No. 2,,	नूतनीकरण

7	बी.ई. (कॉम्प्यूटर)	120	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,- वर्ष पहिले ते चौथे- Div No.2,,	नूतनीकरण
8	बी.ई. (मेकॅनिकल)	300	2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.4,- वर्ष पहिले ते चौथे- Div No.1,- वर्ष पहिले ते चौथे- Div No.2,- वर्ष द्वितीय ते चतुर्थ- थेट दुसरे वर्ष Div No. 3,- वर्ष द्वितीय व तृतीय- थेट दुसरे वर्ष Div No. 5,,	नूतनीकरण
9	बी.ई. (सिविल)	120	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,- वर्ष पहिले ते चौथे- Div No.2,,	नूतनीकरण
10	बी.ई. (मेकॅनिकल)	300	2016-2017 : - वर्ष चौथे- थेट दुसरे वर्ष Div No. 5,- वर्ष तिसरे- Div No. 4,,	नैसर्गिकवाढ

कळावे,

आपला,

For [Signature]
 उपकुलसचिव
 शैक्षणिक विभाग

Savitribai Phule Pune University

(Formerly University of Pune)

Telephone Nos. :

020 – 25691233

25601258

25601259

25601257



ACADEMIC SECTION

Ganeshkhind, Pune – 411007, INDIA

Telegraph : 'UNIPUNE'

Fax : 020-25691233

Website : www.unipune.ac.in

E-mail : dyracademic@unipune.ac.in

Ref. No. : CA/247

Date : 23/03/2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that K J Educational Institute's K J College of Engineering & Management Research, S. No. 25 & 27, Pisoli, Near Bopdeo Ghat, Dist – Pune 411 048 is affiliated to the Savitribai Phule Pune University, since 2009 (PU/PN/ENGG/378/2009) and the following courses are taught in the said college as per approval.

Courses <u>Under Graduate</u>	Duration of the Course	Affiliation (Permanent / Temporary)	Validity Period
Electrical Engineering	4 Year	Temporary	Upto 2016-17
Electronics and Telecommunication Engineering	4 Year	Temporary	Upto 2016-17
Electronics and Telecommunication Engineering (Direct Second Year)	3 Year	Temporary	Upto 2016-17
Computer Engineering	4 Year	Temporary	Upto 2016-17
Mechanical Engineering	4 Year	Temporary	Upto 2016-17
Mechanical Engineering (Direct Second Year)	3 Year	Temporary	Upto 2016-17
Civil Engineering	4 Year	Temporary	Upto 2016-17

P.T.O.

Courses <u>Post Graduate</u>	Duration of the Course	Affiliation (Permanent / Temporary)	Validity Period
Computer Engineering	2 Year	Temporary	Upto 2016-17
Mechanical Engineering (Design)	2 Year	Temporary	Upto 2016-17
Civil Engineering (Structural Engineering)	2 Year	Temporary	Upto 2016-17
Computer Engineering (Computer Network)	2 Year	Temporary	Upto 2016-17

The said certificate is issued as per the request application received from the Principal of the college Ref. No. केजेसीओईएमआर/साफुपुवि/२०१६-१७/५२४, dated 21/03/2017 so as to submit it to the National Assessment and Accreditation Council (NAAC), Bangalore.



Dy. Registrar
(Academic Section)



K J EDUCATIONAL INSTITUTE'S
K J COLLEGE OF ENGINEERING & MANAGEMENT RESEARCH

Approved by AICTE, New Delhi & Affiliated to Savitribai Phule University of Pune (IDNo.PU/PN/Engg.378(2009)

DTE College Code - EN 6320, Web.: kjsedu.com

Dr. Suhas S. Khot
BE, ME, PhD (E & TC Engg.)
Principal

Shri. Kalyan J. Jadhav
M.Com (Hons.)
Founder President

Ref: KJEI/KJCOEMR/NAAC/2016-17/ 571

Date: 24/04/2017

DECLARATION BY THE HEAD OF INSTITUTION

I certify that the data in the 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.

Dr. Suhas S. Khot
Principal



Campus : Survey No. 25 & 27, Pisoli, Near Bopdeo Ghat,
Tal. Haveli, Dist. Pune. Telephone : (020) 26934417
E-mail : principalkjcoemr@gmail.com, Web : www.kjeducation.in

Head Office : 408/10, 2nd Floor, "Purandar Complex",
Mukundnagar Industrial Estate, Pune 411030.
Telephone : 24269100, 24267100, Telefax : 91-20-24264379



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Founder President

Ref./KJEI/KJCOEMR/NAAC/2016-17/ 572

Date: 24/04/2017

Certificate of Compliance

(Affiliated/ Constituent/ Autonomous Colleges and Recognized Institutions)

This is to certify that **K J College of Engineering and Management Research, Pune** fulfils all norms;

1. Stipulated by the affiliating university: **Savitribai Phule Pune University (SPPU), Pune**
2. Regulatory Council/ Body: **All India Council for Technical Education (AICTE)** and
3. The affiliation and recognition is valid as on date: **Academic Year 2016-17**

In case affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.


It is noted that the 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 sent 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.

Place: Pune

Date: 24/04/2017




Dr. Suhas S. Khot
Principal

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