Self Study Report
(SSR)

Sinhgad Technical Education Society's
Rasiklal M. Dhariwal Sinhgad Technical Institutes Campus
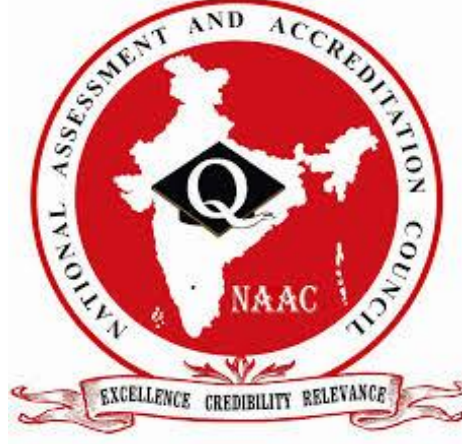**111/1 Warje, off Katraj - Dehu Road Bypass**
Taluka Haveli, Pune, Maharashtra, 411058
Phone: 020-25218406, Mobile No.: +918550990109

Submitted to

National Assessment and Accreditation Council
Bengaluru

Self Study Report (SSR)

Submitted to

National Assessment and Accreditation Council, Bengaluru

by

Sinhgad Technical Education Society's

Rasiklal M. Dhariwal Sinhgad Technical Institutes Campus

111/1 Warje, off Katraj - Dehu Road Bypass
Taluka Haveli, Pune, Maharashtra, 411058
Phone: 020-25218406, Mobile No.: +918550990109

e-mail: principal.rmdssoe@sinhgad.edu
Website: www.sinhgad.edu

RMDSTIC/2016-17/446

Date: 2nd May 2017

To,
The Assistant Registrar,
National Assessment and Accreditation Council,
P. O. Box.No.1075, Opp: NLSIU
Nagarbhavi, Banglore-560072

Subject: Submission of hard copy Self Study Report (SSR)

Track ID: MHCOGN27418

Respected Sir,

We are submitting herewith Self Study Report (SSR) as our LOI bearing Track ID: MHCOGN27418 has been accepted on 21/04/2017. We would like to inform that the copy of SSR is also uploaded on our institute website for your kind perusal. The complete URL is follows:

www.sinhgad.edu (http://cms.sinhgad.edu/rmd_ssoe/NAAC_SSR_RMDSTIC.pdf)

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

Thanking you with regards.

Director
(Dr. C. B. Bangal)

CONTENTS

Abbreviations

AAU	Aalborg University
ALMS	Auto Library Management System
AMC	Academic Monitoring Committee
AICTE	All India Council for Technical Education
AMCAT	Aspiring Minds Computer Adaptive Test
BOS	Board of Studies
CAP	Centralized Admission Process
CCD	Café Coffee Day
CEO	Chief Examination Officer
CLOs	Course Learning Outcomes
CoE	Centre of Excellence
CTC	Corporate Training Centre
DTE	Directorate of Technical Education
EDC	Entrepreneurship Development Cell
EKC	Engineering Knowledge centre
ETP	Enhancement Training Program
EPF	Employee Provident Fund
ERP	Enterprise Resource Planning
EU	European Union
FDP	Faculty Development Program
FDPs	Faculty Development programmes
GATE	Graduate Aptitude Test in Engineering
GD	Group Discussion
GEMS	Governing Educational Management System
GISFI	Global ICT Standardization Forum for India
HOD	Head of Department
IETE	Institute of Electronics and Telecommunication Engineers
IIIC	Industry Institute Interaction Cell
IQAC	Internal Quality Assurance Cell
IQAS	Internal Quality Assurance System
ISP	Internet Service Provider
ISR	Institutional Social Responsibility
JAES	Journal of Advances in Engineering Science
LIC	Local Inspection Committee
JSPMNTC	JSPM Narhe Technical Campus
MESA	Mechanical Engineering students Association

MNC	Multinational Company
MoUs	Memorandums of Understanding
NAAC	National Assessment and Accreditation Council
NPTEL	National Programme on Technology Enhanced Learning
NSS	National Service Scheme
OPAC	Online Public Access Catalogue
OS	Office Superintendent
PBL	Project Based Learning
PEOs	Program Educational Objectives
PI	Personal Interview
PLOs	Programme Learning Outcomes
POs	Programme Outcomes
PPP	Profile and Project Presentation
PWD	The Persons With Disabilities Act
QA & LR	Quantitative Aptitude & Logical Reasoning
R&D	Research & Developement
RHTC	Rural Health Training Centre
SETU	School of Enterprises Tie-Up
SLS	Self Learning Session
SPPU	Savitribai Phule Pune University
SSR	Self Study Report
STES	Sinhgad Technical Education Society
STP	Student Training Program
SWOC	Strength Weakness Opportunity Challenges
T&P	Training & Placement
TAP	Teacher's Advancement Program
TFWS	Tuition Fee Waiver Scheme
TG	Teacher-Guardian
TTT	Train The Trainer
VAP	Value Addition Program
ZCOER	Zeal College of Engineering and Research

NAAC Steering Committee

Sr. No.	Name of Staff Member	Designation	Designation for Steering committee
1	Dr. Charudatta Bangal	Director/ Principal	Chairman
2	Dr. Madhva Nagarhalli	Professor & HOD Mechanical Engg.	Coordinator
3	Mr. Rajesh Shekokar	Asst. Professor	Assistant Coordinator
4	Dr. John Peter	Professor & Dean (MBA)	Member
5	Dr. Sunil Jagtap	Asso. Professor & HOD FE	Member
6	Mr. Manohar Mungare	Asst. Professor& Incharge Asso. Director (MCA)	Member
7	Mrs. Vina Lomte	Asst. Professor & HOD Computer Engg.	Member
8	Mr. Rahul Shinde	Asst. Professor & HOD Civil Engg.	Member
9	Mrs. Snehal Bhosale	Asst. Professor & HOD E&TC Engg.	Member
10	Mrs. Sweta. Kale	Asst. Professor & HOD I.T.	Member
11	Mr. Nitin Pagar	Asst. Professor Mechanical Engg.-Second shift coordinator	Member
12	Lt.(Retd.) Prabhakaran K. K.	Office Superintendent	Member

PREFACE

RMD Sinhgad Technical Institutes Campus, Pune is pleased to present this Self-Study Report (SSR) to the National Assessment and Accreditation Council (NAAC), Bengaluru. Sinhgad Technical Education Society (STES) was established in the year 1993 under the dynamic leadership of Prof. M. N. Navale. The sole objective of the society is to provide quality education in the field of Engineering, Medical, Dental, Pharmacy, Management, Computer Applications, Architecture, Commerce, Law, Science and School education.

Rasiklal M. Dhariwal Sinhgad Technical Institutes Campus is an Integrated Campus established in the year 2011. The institute is recognised by All India Council for Technical Education (AICTE), New Delhi and Directorate of Technical Education (DTE) Government of Maharashtra, Mumbai. It is affiliated to Savitribai Phule Pune University (SPPU), Pune (formerly University of Pune). The Institute is located at Warje, Pune. The institute runs five undergraduate courses and seven postgraduate courses. Undergraduate courses include Mechanical Engineering, Electronics & Telecommunication Engineering, Computer Engineering, Information Technology, and Civil Engineering. Post-graduate courses include Mechanical Engineering (Design Engineering), Electronics & Telecommunication Engineering (VLSI & Embedded Systems), Computer Engineering (Computer Engineering), Information Technology (Information Technology), Civil Engineering (Construction and Management), MBA and MCA.

The faculty strives hard to impart knowledge to the students in order to enhance their competency. The institute has well equipped laboratories which are upgraded in tune with the syllabus of SPPU Pune. We believe in developing a research culture in departments and support innovative ideas from faculty and students. Extensive Student Training Program (STP) are conducted to enhance the skillset and employability. Conduction of industrial visits, technical exhibitions and participation in various competitions are helpful to students in bridging the gap between industry and academia. Institute believes that it is contributing to engineering education and applying for NAAC is a step towards assurance of quality in technical education. Furthermore, the institute is willing to assess its educational system and academic culture. In addition to this it is essential for a professional institute to receive stakeholder's perception towards teaching-learning process and supporting entities. Thus applying for NAAC is a step towards self-introspection leading to further development of the institute towards excellence.

Dr. C. B. Bangal
   (Director)

EXECUTIVE SUMMARY

Criterion I: Curricular Aspects

RMDSTIC (RMD Sinhgad Technical Institutes Campus) is affiliated to the Savitribai Phule Pune University (SPPU) and follows the curriculum prescribed by the University. The institute follows a standard process to plan and execute activities for effective implementation of the curriculum delivery. There is a formal mechanism to ensure that the curriculum objectives are achieved. This process is called as Course Outcome (CO). CO attainment is judged based on various tools like unit test, mock test, guest lectures, assignments etc.

The institute encourages faculty to actively participate in the syllabus discussion meetings conducted by Board of Studies (BoS) at University level. This helps the faculty to get an insight of the subject as per BoS vision and also helps to interact with subject experts from other institutions. The faculty members are actively participating in various workshops, Faculty Development Programs (FDP) to understand the breadth and depth of the subject for effective delivery of the curriculum. These workshops are conducted under aegis of University.

The institute has signed up Memorandums of Understanding (MOU's) with companies from different domains to gain a broader view of the subject from industry perspective. The suggestions received are communicated to the BoS to be incorporated into the curriculum.

Apart from the courses in program affiliated to SPPU, the Institute offers value added certification courses. These kind of value added courses help in bridging the gap between curriculum and industry needs and gain the knowledge on recent trends and technologies. The institute conducts several sessions under Student Training Program (STP) that helps the students to build personality along with exquisite technical and non technical skills. The objectives of STP are to enhance the employability skills, to prepare the students for entrepreneurship and to promote them for higher education.

Criterion II: Teaching-Learning and Evaluation

The institute has earned its name due to excellence in teaching and learning processes which is achieved by recruiting competent teaching faculty and designing learning environment in tune with stakeholder's perception. Institute's 80% admissions are carried out through centralized admission process of the Government. The remaining 20% students are admitted by the institute on merit basis as prescribed by the DTE/Govt.

In order to have smooth conduct of teaching, meticulous planning is done prior to the commencement of the semester. Syllabus completion status is monitored periodically. Suggestions by the staff and feedback from students facilitate in continuous improvement in the teaching-learning process. The institute has adopted the reforms in assessment and evaluation patterns by the SPPU. Accordingly, tests are designed and conducted on a regular basis to prepare and assess the students' knowledge and understanding of the technical know-how being delivered in the classrooms and laboratory sessions. The students' learning outcomes and performance in the examinations are reviewed and monitored by Academic Monitoring Committee (AMC) to assess academic progress of the institute.

Criterion III: Research, Consultancy, and Extension

The institute motivates faculty members for research by providing infrastructure and laborataries for doing their Ph.D. The faculty is duly recognized and encouraged to participate in various workshops and conferences, to remain abreast with latest knowledge and technology updates. Institute makes financial provisions in the budget to cater to needs of the research. Furthermore, through workshops and seminars supporting mechanism has been developed to encourage in the patent filing. Students and faculty are motivated to pursue industry sponsored projects. Energy centre and Wireless Communication research neighborhood are being developed to cater to the needs of research in the said sectors.

Institute has signed MoUs with many industries for project work; these industries not only offer technical expertise but lend their facilities for the research activities. Extension activities on the technical front are carried out by the institute by having MOUs with leading industries. The students are made aware of their social and moral obligations towards society through techno-social activities. The institute has collaborations with reputed industries and international universities.

Criterion IV: Infrastructure and Learning Resources

The institute has an adequate number of classrooms, laboratories and workshops. The institute has sufficient seminar halls which are used for multiple activities such as seminars, workshops, and conferences. Various sports facilities are available to students with grounds for football, cricket, basketball, etc. The library (main and digital) has an excellent collection of books, references, journals, magazines and a book bank facility and has a reading hall having a seating capacity of over 300 students. The laboratories are equipped with modern equipments, machinery, computer hardware and software required for both academic and research. The maintenance of institute and campus facilities is carried and monitored by office. Appropriate funds are made available in the annual budget for it, and its utilization is monitored by the director of the institute.

Criterion V: Student Support and Progression

The institute has an annual intake of 1224 students with a total strength of 3438 students coming from diverse geographical locations of India. In order to cater to the needs of students, Teacher-Guardian (TG) scheme is followed. Each TG is assigned to a batch of students who monitor the academic and personal progress of these students, which helps to improve the results. The TG is also in constant touch with their parents/local guardians. Office staff provides necessary support and information regarding various scholarship and insurance schemes run by university and Government. Many students have availed this facility. The institute arranges special coaching for GATE/GRE and other competitive examinations. Also, coaching for slow learners is provided through remedial classes. The Training & Placement (T&P) cell of the institute provides career guidance and organizes campus recruitment drives for the students. The students are encouraged to go for internship in industries during vacations. The department and the T&P cell helps the students in this regard. The T&P cell guides and counsels the students for placement activities through various initiatives such as online assessment tests, STP, VAPs, AMCAT and foreign language courses. Development of entrepreneurial skills is encouraged in the students by arranging courses. Institute has framed various bodies which support students' progression, feedback and used to address students grievances in time. Every year

institute conducts several sports, extracurricular and co-curricular activities for overall development of the students. Students have representaion in various associations as well as central academic monitoring cells. All students bodies are encouraged to provide constructive feedback on the institutional academic and administrative environment. All relevant information is available on the institute website.

Criterion VI- Governance, Leadership, and Management

The mission and vision of institute are designed in harmony with higher education policies of India. The institute has a governing body works under the Sinhgad Technical Education Society, which is lead by the academician. Faculty members on the management committee are actively involved in the decision-making process at various levels. Periodical interaction is made with all stakeholders for strategic planning and monitoring of policies. The various institute level committee are comprised of the Director, Heads of Departments, senior faculty, and student's representative for grooming the leadership at various levels. The institute organizes annual Technical Festival 'Techtonic', workshops, seminars and conferences for the overall development of the students and to inculcate leadership qualities among them.

The institute has adequate budgetary provision for academic activities and its mobilization is monitored by the institute to ensure optimum utilization. Regular internal audit is carried out. The institute is autonomous in the decision-making process and planning for strategic development and deployment for perspective plan document. The institute has well-defined strategies for faculty recruitment and promotion. Institute facilitates advancement in qualification improvement programme. Through the performance appraisal, institute reviews the performance of the faculty. These appraisals are designed considering various parameters of the teaching-learning process. Improvement in the qualification is appropriately appreciated through scale improvement and promotion. Train the Trainer (TTT); skill enhancement programme is a trademark of the institute. In addition to this, staff is encouraged to participate in the staff development programmes organised at various institutes.

Criterion VII- Innovations and Best Practices

The institute is committed to adopting environment-friendly policies with regard to the plantation, waste management. Institute has started many innovative programmes which have helped to create positive impact and improvement in academic culture. These mainly include Value Addition Programs and Remedial classes. The use of ERP software (paperless) for the academic-administrative purpose has shown our commitment to a green environment. The formation of Industry Institute Interaction Cell (IIIC) has added impact on the industry-institute interactions and placement. The best practice is the Student Training Program (STP) to enhance the personality and employability of the students. The STP is spread over six semesters spanning the areas from soft skills, technical skills to interview skills. The institute conducts training for Quantitative Aptitude & Logical Reasoning (QA&LR) for three days, GD & PI for the students to improve their skills. This has benefited the students to a great extent. The institute also conducts workshops on specific domain in coordination with subject experts from industry, which adds value to the development of the institute and makes the interaction with other institutes.

SWOC ANALYSIS OF THE INSTITUTE

Strengths:

- Good academic performance.
- Experienced and qualified faculty and their retention.
- Transparent, conducive and collaborative work environment.
- Innovative teaching-learning practices.
- Sprawling 10 acre campus and infrastructure.
- Well equipped library with adequate collection of books and e-resources.
- Effective implementation of VAPs, and STPs.
- Good placement record.
- Teacher guardian scheme.
- Promoting staff to do Ph. D.
- Industry Institute Interaction Cell.
- Under the agies of the society which offers quality educationfor the past 24 years.
- Accessible location.

Weaknesses:

- Consultancy.
- Strength of the alumni association.
- Funded Research Projects.
- Number of Ph.D staff.
- Less number of Publications .

Opportunities:

- There is scope for an inter-disciplinary and collaborative research.
- To become centre of excellence in renewable energy and Wireless Sensor Networks.
- Development of e-learning resources.
- Networking and strengthening relationship with stakeholders.
- Induction of faculty with Ph.D qualification.
- Proximity to IT & Automobile industry hub for networking and partnership.

Challenges:

- Increasing the number of placements with higher perks.
- Bridging the gap between academia and industry.
- Attract meritorious students.

C. PROFILE OF THE INSTITUTE

1. Name and Address of the Institute:

Name	RASIKLAL M. DHARIWAL SINHGAD TECHNICAL INSTITUTES CAMPUS
Address	111/1 WARJE, OFF KATRAJ – DEHU ROAD BYPASS, TALUKA HAVELI, PUNE, 411058 MAHARASHTRA
Website	www.sinhgad.edu

2. For Communication:

Designation	Name	Telephone	Email
Director/ Principal	Dr. C. B. Bangal	020-25218406 8550990109	principal.rmdssoe@ sinhgad.edu
Steering Committee Coordinator	Dr. M. V. Nagarhalli	9325912650, 8624894229	mechhod.rmdssoe@ sinhgad.edu

3. Status of the institution:

a.   Affiliated Institute   ✓

b.   Constituent Institute   ☐

c.   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.   Is it a recognized minority institution?   No

6.   Sources of funding:

1.	Government	No
2.	Grant-in-aid	No
3.	Self-financing	Yes
4.	Any other	No

7.   a. Date of establishment of the institute: 01/07/2011

b. University to which the institute is affiliated: Savitribai Phule Pune University [SPPU], Pune.

c. Details of UGC recognition: NA

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, etc.), Details of First affiliation for existing courses:

Sr. No.	Under Section/ clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
1	Regulations 2012 by the council vide notification F. No. 37/3/ legal 2012 at 27/09/2012	F. No. Western/1-2809806753/2016/EOA	Dt.25/04/2016	One Year	Approval is extended every year by submitting the required documents as per AICTE

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/1-2809806753/2016/EOA   Date: 25-Apr-2016

To,

The Secretary,
Tech. & Higher Education Deptt.
Govt. of Maharashta, 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	1-2809806753
Name of the Institute	RASIKLAL M. DHARIWAL SINHGAD TECHNICAL INSTITUTES CAMPUS	Permanent Id	1-450175511
Name of the Society/Trust	SINHGAD TECHNICAL EDUCATION SOCIETY	Institute Address	111/1 WARJE, OFF KATRAJ - DEHUROAD BYEPASS, TALUKA HAVELI, PUNE, PUNE, Maharashtra, 411058
Institute Type	Unaided - Private	Society/Trust Address	44/1 VADGAON (BK.) OFF SINHGAD ROAD, PUNE 411041,PUNE,PUNE,Maharashtra,411041

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: 1-2809806753			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/Twining Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLO	1st Shift	POST GRADUA	COMPUTER ENGINEERING	FULL TIME	University of Pune, Pune	24	24	NA	NA	NA

Application Number: 1-2809806753   Page **1** of **4**
Note: This is a Computer generated Report.No signature is required.   Letter Printed On:28 April 2016

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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

GY		TE								
ENGINEERIN G AND TECHNOLO GY	1st Shift	POS T GRA DUA TE	CONSTRUCTIO N MANAGEMENT	FULL TIME	University of Pune, Pune	24	24	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	POS T GRA DUA TE	EMBEDDED SYSTEM AND VLSI	FULL TIME	University of Pune, Pune	24	24	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	POS T GRA DUA TE	MECHANICAL ENGINEERING DESIGN	FULL TIME	University of Pune, Pune	24	24	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	CIVIL ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	COMPUTER ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	ELECTRONICS AND TELECOMMUNI CATIONS ENGINEERING	FULL TIME	University of Pune, Pune	60	60	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	INFORMATION TECHNOLOGY	FULL TIME	University of Pune, Pune	60	60	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	MECHANICAL ENGINEERING	FULL TIME	University of Pune, Pune	180	180	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	2nd Shift	POS T GRA DUA TE	COMPUTER ENGINEERING	FULL TIME	University of Pune, Pune	24	24	NA	NA	NA
	2nd	POS	INFORMATION	FULL	University of	24	24	NA	NA	NA

Application Number: 1-2809806753
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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Program	Shift	Level	Name of Course	Full/Part Time	Affiliating Body					
ENGINEERING AND TECHNOLOGY	Shift	T GRA DUA TE	TECHNOLOGY	TIME	Pune, Pune					
ENGINEERING AND TECHNOLOGY	2nd Shift	UND ER GRA DUA TE	MECHANICAL ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
MANAGEMENT	1st Shift	POS T GRA DUA TE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	University of Pune, Pune	240	180	NA	NA	NA
MCA	1st Shift	POS T GRA DUA TE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	University of Pune, Pune	240	240	NA	NA	NA

The above mentioned approval is subject to the condition that RASIKLAL M. DHARIWAL SINHGAD TECHNICAL INSTITUTES CAMPUS 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.

Course(s) Applied for Closure by the Institute for the AY 2016-17:

Application Id: 1-2809806753			Name of the Course	Full/Part Time	Affiliating Body	Course Closure Status
Program	Shift	Level				
MCA	2nd Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS : (Last Approved Intake 60)	FULL TIME	University of Pune, Pune	Approved

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

Application Number: 1-2809806753
Note: This is a Computer generated Report.No signature is required.

Printed By : AIC002595

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Letter Printed On:28 April 2016

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:
1. **The Regional Officer,**
   All India Council for Technical Education
   Industrial Assurance Building
   2nd Floor, Nariman Road
   Mumbai - 400 020, Maharashtra

2. **The Director Of Technical Education,**
   Maharashtra

3. **The Registrar,**
   University of Pune, Pune

4. **The Principal / Director,**
   RASIKLAL M. DHARIWAL SINHGAD TECHNICAL INSTITUTES CAMPUS
   111/1 WARJE, OFF KATRAJ - DEHUROAD BYEPASS, TALUKA HAVELI,
   PUNE,PUNE,
   Maharashtra,411058

5. **The Secretary / Chairman,**
   SINHGAD TECHNICAL EDUCATION SOCIETY
   44/1 VADGAON (BK.) OFF SINHGAD ROAD, PUNE 411041,
   PUNE,PUNE,
   Maharashtra,411041

6. **Guard File(AICTE)**

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 Institute applied for availing the autonomous status?

Yes [ ]   No [✓]

9. Is the institute recognized?

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

Yes [ ]   No [✓]

For its performance by any other governmental agency?

Yes [ ]   No [✓]

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

Location	Urban
Campus area in sq. mts.	42046.80
Built up area in sq. mts.	23000.00

11. Facilities available on the campus:

- ❖ Auditorium/seminar complex With infrastructural facilities   ☐

- ❖ Sports facilities
  - Playground   ✔

- ❖ Cafeteria - **Yes** (03 canteens)

- ❖ Residential facilities for teaching and non-teaching staff: [Available at Vadgaon campus of STES].

Sr. No.	Type of Facility	Total Numbers	Category of staff
1	1 BHK	04	Assistant Professor
2	1 RK	07	Peon/ Supporting Staff

- Health centre: **No** [Not in campus but available in our own Medical college and Hospital]

- First aid, In-patient, Out-patient, Emergency care facility, Ambulance: **Available on call**

- Health centre staff - **Qualified Doctor available on call**

- Facilities like banking, post office, book shops: Book shop/Stationary store available. Other fascilities are available nearby.

- Biological waste disposal: **Yes**

- Generator or another facility for management/regulation of electricity and voltage: **Yes**

- Solid waste management facility: **Yes**

12. Details of programmes offered by the institute (Data for the academic year 2015-16)

Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
Under-Graduate	Mechanical Engg.	Four Years	12th Std.	English	180+10*	169
	Mechanical Engg. (2nd Shift)				120	82
	E&TC Engg.				60+4*	40
	Computer Engg.				120+7*	124
	Information Technology (IT)				60+4*	63
	Civil Engg.				120+7*	120
Post-Graduate	M.E. Design	Two Years	Graduate	English	24	14
	M.E. E&TC VLSI				24	16
	M.E. Computer				24	17
	M.E. IT (2nd Shift)				24	4
	M.E. Civil				24	24
	ME Computer (2nd Shift)				24	6
	MCA	Three Years	Graduate	English	240	22
	MBA	Two Years	Graduate	English	240	134
	MCA (2nd Shift)	Three Years	Graduate	English	60	1

(* Through TFWS and J & K Quota)

13. Does the institute offer self-financed programmes? No

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

Yes	✓	Number	05

15. List of the departments:

Faculty	Departments	UG	PG	Research
Engineering	Mechanical Engineering	Y	Y	-
	Civil Engineering	Y	Y	-
	Computer Engineering	Y	Y	-
	Information Technology	Y	Y	-
	Electronics & Telecommunication	Y	Y	-
Management	MBA	-	Y	-
	MCA	-	Y	-

16. Number of Programmes offered under

a. Annual system

Nil

b. Semester system

5+7

c. Trimester system

Nil

17. Number of Programmes with:

a. Choice Based Credit System: **No**

b. Inter/Multidisciplinary Approach: **Nil**
c. Any other: **Nil**

18. Does the institute offer UG and/or PG programmes in Teacher Education? **No**

19. Does the institute offer UG or PG programme in Physical Education? **No**

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

Positions	Teaching faculty						Non-teaching Staff		Technical Staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government Recruited	--	--	--	--	--	--	--	--	--	--
Sanctioned by the Management or other authorized bodies Recruited	4	0	1	2	84	68	52	12	15	07
Yet to Recruit	--	--	--	--	--	--	--	--	--	--

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
Ph.D.	4	0	1	2	0	0	7
M. Phil.	0	0	0	0	1	1	2
PG	0	0	0	0	83	67	150

Temporary teachers							
Ph.D.	0	0	0	0	0	0	0
M. Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	0	2	2

22. Number of Visiting Faculty /Guest Faculty engaged with the Institute: 02

23. The number of the students admitted to the institute during the last four academic years.

Categories	UG Programme							
	2015-16		2014-15		2013-14		2012-13	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	42+43*	5+5*	19+19*	7+7*	61+24*	8+8*	35+9*	6+3*
ST	1+1*	0	1	0	3	0	2	0
OBC	136+66*	12+26*	121+42*	15+12*	133+28*	15+9*	89+35*	16+11*
General	236+117*	74+31*	163+81*	12+36*	255+53*	112+23*	219+53*	80+28*
Others	81+33*	6+5*	29+21*	4+9*	53+20*	9+6*	48+9*	6+4*
Total	**756**	**164**	**496**	**102**	**630**	**190**	**499**	**154**
PG Programme Engineering								
SC	1	3	4	5	4	5	7	2
ST	-	-	1	-	-	-	-	-
OBC	5	4	17	8	10	11	7	-
General	19	22	48	37	48	49	20	30
Others	3	2	6	3	8	2	4	2
Total	**25**	**29**	**70**	**53**	**70**	**67**	**38**	**34**
PG Programme MBA /MCA								
SC	8	5	10+3*	5+3*	6+6*	7+5*	16	7
ST	-	-	-	-	-	-	-	1
OBC	18	10	14+10*	4+5*	14+20*	1+14*	52	17
General	57	48	55+64*	20+36*	100+48*	43+21*	202	63
Others	8	1	8	3+2	9+6*	2+1	92	17
Total	**91**	**64**	**164**	**78**	**209**	**94**	**362**	**105**

(* Through Lateral Entry- Direct Second Year)

24. Details of students enrollment in the institute during the current academic year (2015-16):

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state (M.S.)	539+327	217	0	0	1083
Students from other states of India	56	20	0	0	76
NRI / Foreign students	0	0	0	0	0
Total	922	237	0	0	1159

25. Dropout rate in UG and PG (average of the last two batches):
   UG = 6.4%,   PG = 0.3%

26. Unit Cost of Education:

    (a) Including the salary component: Rs. 87260/-
    (b) Excluding the salary component: Rs. 51822/-

27. Does the institute offer any programme/s in distance education mode (DEP)?   No

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

Sr. No.	Programme	STR
1	Mechanical Engineering	18.75:1
2	Civil Engineering	18:1
3	Computer Engineering	18:1
4	Information Technology	18:1
5	Electronics & Telecommunication Engineering	18:1
6	First Year Engineering	22.60:1

29. Is the institute applying for Accreditation? Yes, for Cycle 1.

30. Date of accreditation*   NA

31. Number of working days during the last academic year: 205

32. Number of teaching days during the last academic year: 180

33. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC/AMC: 14/08/2011 (Academic Monitoring Committee)

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

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

Academic Monitoring Committee (AMC) has been functioning in the role of IQAC in the institute.

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

उत्तमपुरुषान् उत्तमाभियंतृन् निर्मातुं कटीबध्दा: वयम्|

We are committed to produce good human beings along with good Engineers.

MISSION

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 and technology transfer. Our mandate is to generate, preserve and share knowledge for developing a vibrant society.

Objectives

Goals and objectives of the Institution

- To achieve quality academic performance of the students at university examinations by implementing adaptive and effective Teaching Learning Process.

- To ensure all-round development of students by providing Student Training Programs (STP) and Value Added Programs (VAP), which help students to get prepared for placements.

- To motivate students to participate in various technical, co-curricular and extra-curricular activities.

- To inculcate research culture in faculty and students and encourage them by providing research facilities.

- To motivate faculty and staff to improve their qualification and make themselves suitable in the new era of education

- To update the knowledge of the faculty by giving them consistent up-to-date awareness of new technologies through Faculty Development Program (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 all the stakeholders and are displayed on the Institute website, at various prominent locations of the Institute building such as the Principal's office, HOD Cabin, library, notice boards, entrance and corridors.

- It is also communicated to all First Year Engineering (FE) students and laterally admitted second year students through the FE and SE induction program respectively at the beginning of every year.

- It is communicated to parents through the FE induction program and Parent's meeting which is held in every semester.

- We make sure that all the entities of our academic calendar will one or the other way becomes responsible for the fulfillment of our objectives.

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 a specific example (s).

Development of the action plan:

RMDSTIC (RMD Sinhgad Technical Institutes Campus) has a distinct culture of rigorous action plan development. The entire process is divided into three parts:

    i.   Before semester starts
    ii. During semester
    iii. Co curricular activities

i.   Before the Semester starts:
- Lesson Plans are designed meticulously. Its components are:

  - Course objectives designed by faculty and linked with PEOs.
  - Unit objectives linked with course objectives
  - Course learning outcomes linked to course objectives.
  - Lecture-wise teaching plan linked with unit objectives

- Academic calendar is prepared well before the commencement of every semester of academic year by each department with major guidelines from the Principal. This calendar consists of plan of conducting in-house tests, STP, VAP, Quantitative Aptitude and Logical Reasoning (QALR) test, mock practical / oral examinations, university examination schedules, AMCAT tests.

- HODs allot academic workload in consultation with the faculty and principal. Few faculties are also allocated to other departments to take specific subjects.

- Class timetables are prepared and displayed before commencement of semester. Individual faculty timetables, classroom utilization timetables and laboratory utilization timetables are also prepared.

- Every faculty prepares the course file, lesson plan and get it approved from HOD before the commencement of the semester. Every time the faculty is supposed to add innovations in the teaching methodology.

  The course file components are:

  - PEOs and POs
  - Course Objectives, Syllabus
  - Individual Time Table, Teaching Plan
  - University Question Papers
  - Question Banks- Theory, Oral, or Objectives (MCQs).
  - Subject Notes and Power Point Presentations (PPTs)
  - Unit Test I, II and Prelim Exam: Question Paper, Attendance Record, Result Analysis, Sample Answer Sheets
  - Assignments/Tutorial
  - Continuous Assessment Record
  - Students Attendance Record
  - Feedback
  - Result analysis
  - The lesson plans and course files are checked and validated by the HoDs.

- Train The Trainers (TTT) programs are organized for faculty by the institute and Faculty Development Program (FDP) by the University for Different Courses.

- Laboratory manual is prepared as per the guidelines given by University for conducting practical.

- Attendance booklets (green books) are provided to all faculties to make a record of attendance of the students during Theory (TH) and Practical (PR) sessions.

- Requirement of book is given to the Institute Library.

- Industrial visits are planned and executed depending on the need of the curriculum.

- Requirements of equipments, consumables, maintenance are forwarded through HODs to the Principal, as and when necessary.

- Faculty requirement for each semester is calculated and recruitment is done as the procedure set by STES. Short listed (from applications received) candidates are called for interviews and a panel of faculty (including HOD) take interview which includes a demo lecture by candidate and the names are forwarded to management for approval.

- The Teaching-Learning-Practices before semester in all the departments has been outlined in Figure 1.1.2 a
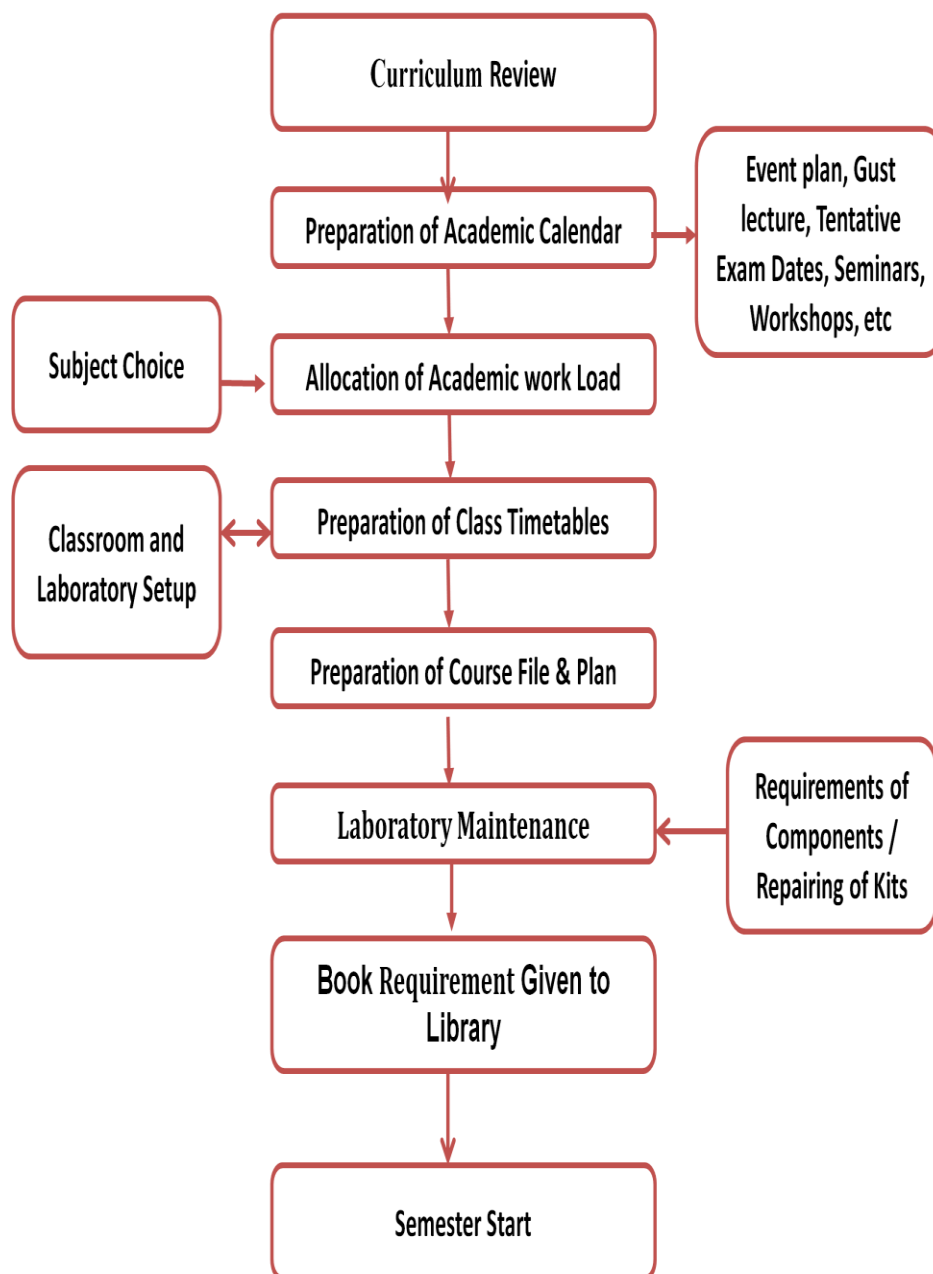
Figure 1.1.2 a. Teaching-Learning-Practices- Before Semester

   ii.   **During the Semester:**

- The Principal and HODs address students and staff specifying the goals for the Semester.

- Teaching and learning is carried out by all faculties with the help of modern technology aids. All HODs make sure about conduction of every class and practical sessions of the department as per scheduled timetable.
- Teaching-Learning-Practices followed during semester in all departments has been outlined in Figure 1.1.2 b.
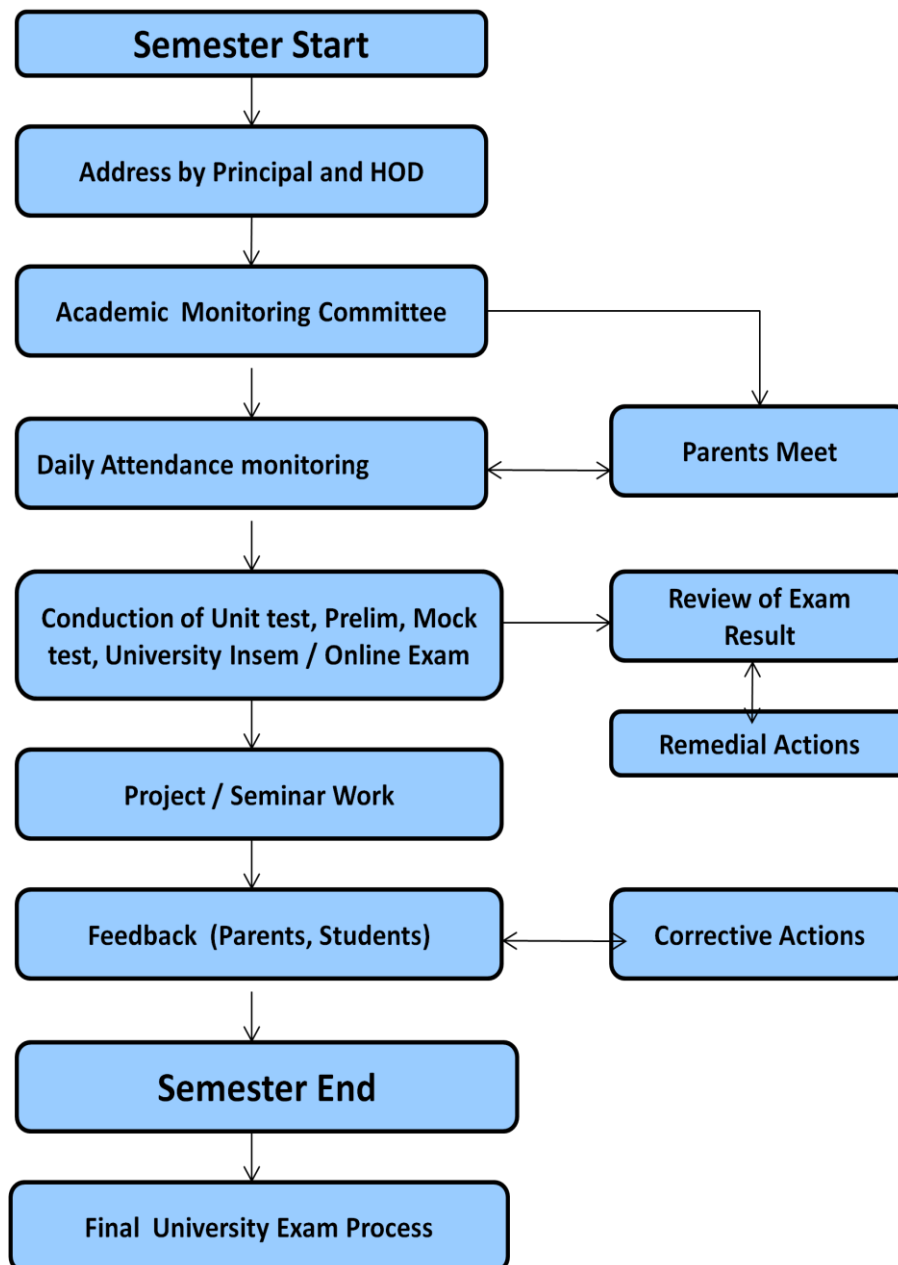
Figure 1.1.2 b. Teaching-Learning-Practice- During the Semester

Monitoring

- Effective implementation of curriculum is periodically reviewed through departmental meetings.
- The progress of the students (Attendance and internal test performance) is regularly informed to their parents through SMS and phone calls. Students

having attendance lesser than 75% and having low performance in internal tests, their parents are called in college to discuss about his/her progress. The parents can contribute to the improvement of the student by means of this update.

- Every semester at least one parent meet is conducted where, all parents are invited to meet the Teacher Guardian, class in-charge, subject teachers and HOD to have an on the spot assessment of the students.
- In Parents meet, HOD makes all the parents aware of the practices are carried out in the department in terms of academics, placement and overall grooming of their ward.
- Students' online feedback is taken. The outcome of the feedback is monitored by Academic Monitoring Committee (AMC).
- Every month, department academic progress is reviewed by HOD. This review consists of attendance of the students, syllabus coverage, and practical assignments completed and internal examination performance of the students.
- Process of monthly review of students' attendance and reporting the defaulters to respective parents is carried out to maintain discipline of continuous evaluation.
- Results of university on-line examinations and in semester examinations are analyzed and necessary remedial classes are conducted. Extra sessions are normally required for the weaker students and slow learners.

Assessment and Evaluation

- Based on the curriculum, various examinations like unit tests, mock online and prelim exams are regularly conducted as per the academic calendar.
- Proper review of the results is carried out by the respective faculty and HOD.
- The faculty is appropriately appreciated for his/ her performance in academic activities.
- Mock online test are taken for first and second year students before their online exam.
- Internal tests and preliminary examinations are conducted to confirm the percolations of subject matter to the students by the faculty as per the schedule.
- Internal mock practical / oral examinations are conducted to test the students' practical knowledge before they actually appear for the University practical / oral examinations.
- Project progress is timely monitored in project work books. Individual and Team efforts are taken into consideration. Marks are given based on multiple parameters of individual and team.
- Feedback is taken from the students. Academic Monitoring Committee (AMC) monitors this feedback and corrective actions are taken by HODs.
- Assignments are given for better understanding of the subject.

iii.   **Co-Curricular Activities**:

Apart from university curriculum, every department also plans for various activities throughout the semester to achieve the overall development of students.
The execution model of the RMDSTIC departments has been summarized in Figure 1.1.2 c

STUDENTS

TTT/FDP/W/S
STP (1-5)
Industrial Visits
AMCAT
VAP
QALR
Student's Activities

RMDSTIC →
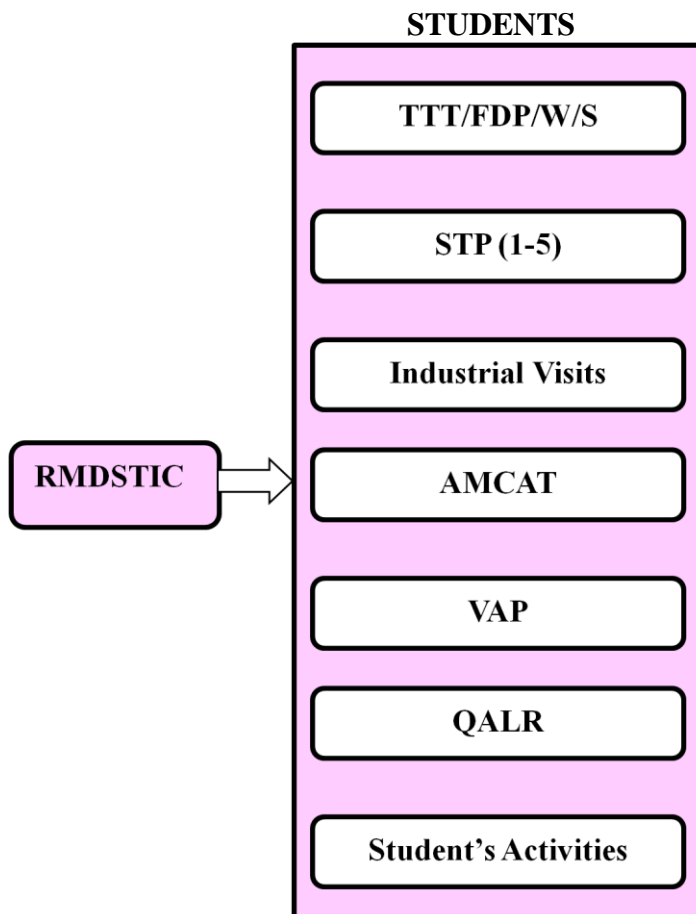
Figure 1.1.2 c. Co-Curricular Activities

- Learning beyond syllabus is achieved by arranging guest lectures. Industry persons are invited in all the departments to give awareness of new technologies in the field. These interactions also help to guide the students while selecting their projects in final year and talks about future scope of the respective discipline.
- Conduction of STP modules in every semester gives awareness of corporate culture and inculcates skills among the students that are needed to make them compatible to the corporate world.
- Conduction of Aspiring Minds Computer Adaptive Test (AMCAT) examinations and its results give an opportunity for the students to do their Strengths-Weaknesses- Opportunities-Constraints (S-W-O-C) analysis and allow them to think on areas to be improved upon. These examinations are conducted in every semester.

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?

For effectively translating the curriculum and improving teaching practices institute provides support to faculty in various forms as shown in Figure 1.1.3

Train the Trainer (TTT)	Resource Availability	Domain Meetings as per Domain Expertise	Well equipped Laboratory
Teachers Advancement Program (TAP)	Financial Support for attending workshops	Modern Teaching Aids (Multimedia Projectors)	Internet Facility / Computer Center
FDP, Workshop, Training, Conference Organization	Research projects, Paper publication	Modern Course Material Preparation (K-Point), NPTEL	BOS SPPU Faculty Development Program (FDP)

Support to Faculty

Figure 1.1.3 Support given by the Institute to the Faculty

Support to faculty from University:

- Faculty receives grants from SPPU for organizing workshops, seminars, and conferences at the state, national and international levels.
- SPPU provides training to the faculty through various syllabus implementation workshops.
- University conducts syllabus discussion and revision meetings conducted by Board of Studies (BOS) for the faculty.

Support to faculty from Institution:

- Faculty is encouraged to participate in syllabus discussions and revision meetings conducted by Board of Studies (BOS).
- Faculty is encouraged to participate in Faculty Development Programs (FDPs), Conferences and Workshops carried out in other institutes by providing financial support and on duty leaves.
- The institute also conducts FDPs/workshops/expert lectures for faculty.

- Perfect synergy has been achieved among faculty through regular brainstorming sessions in Train the Trainers (TTT) programs conducted by the STES.
- Institute conducts, Teacher's Advancement Program (TAP). It is a holistic development program for all teachers.
- Faculty has full access to the Central library which has collection of reference as well as text books needed for curriculum delivery as well as for their research work.
- Faculty is encouraged and supported to do research projects; acquire higher qualifications; publish research papers in reputed journals and conferences.
- Table presents number of FDPs/Workshops/ Conferences attended & organized by Faculty:

Table 1.1.3: FDPs attended, conducted and paper published

Year	2017-18*	2016-17	2015-16	2014-15	2013-14
Attended	42	226	116	106	102
Conducted	17	17	15	06	09
Papers Published	28	75	158	74	50

Institute Library:

- The Institute Library has a rich collection of books to support the curriculum.
- Apart from this our society has a central library accessible to students & faculty members of our campus located at Vadgaon**.** Internet facility for searching database of online e-journals like IEEE, Springer, etc. is available.
- The faculty and students are provided with books from the central library. Apart from this, all Departments offer Departmental Library facility for both.
- NPTEL resource is made available.
- Wi-Fi and Internet facility is available in the campus.

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.

For effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency the following support is provided by the institute, as summarized in Figure 1.1.4

Provides skilled Human Resources
Strict follow up of Academic Calendar, Time Table
Faculty training through FDP, TTT, TAP
Feedback and Corrective Action
Provides book as per the need of the curriculum
Provides adequate infrastructure and resources
Encouragement to faculty for higher studies

→ Effective Curriculum Delivery
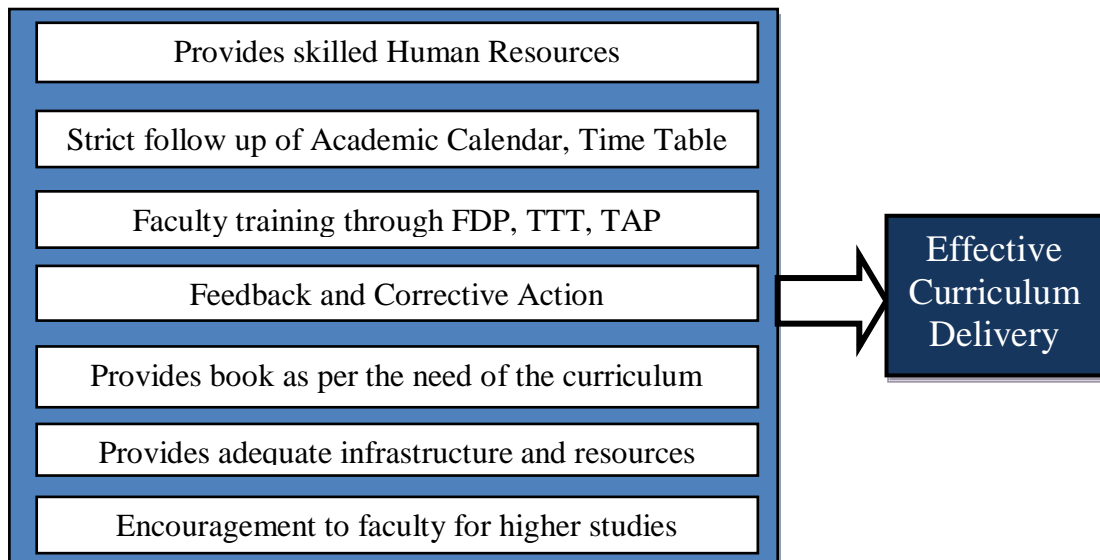
Figure 1.1.4 Support for effective curriculum delivery

- Society conducts Teacher Advancement Program (TAP) in order to enhance the capabilities of the teaching faculty. This program includes personality enhancement, teaching skills development, use of modern teaching aids and motivational case studies, etc.
- In TTT programme teachers dealing with a given course of all streams meet together before the start of the semester and evolve the best course material. This resource is then shared with all the teachers. This is a continuous process year after year.
- A further useful resource is provided in the form of Audio Lectures on the K-Point Platform. These lectures are prepared by faculty based on syllabus. The recording is done for few subjects. These lectures are accessible to all the students and teachers in the institute.
- The students are taken out for educational tours such as industries/trade fairs, exhibitions and to places of historical importance.
- Guest lectures by industry experts are arranged on the latest technologies for the students.
- At the department level, the platform is provided to the students to complete online courses such as EDX and IIT spoken tutorials.
- VAPs are conducted on latest technologies and programming languages by reputed external agencies.
- Teacher Guardian (TG) scheme is in place. There is a TG for each batch students. The TG interacts with these students to solve their problems, guide them and counsels them for overall development.
- Feedback is taken from the students on the teaching learning process.
- Academic Monitoring Committee and concerned HODs monitors this feedback and takes corrective actions.

- Every classroom is equipped with a projector, facilitating smooth and effective lecture delivery.
- Other resources needed for lecture/practical delivery are readily available
- The lecture material is designed and delivered using pedagogical initiatives such as analogy, ICT supported learning. Lecture Notes and question banks are shared with the students
- Remedial classes are arranged for the weak students.

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

1. Major emphasis is laid by the institute on networking with industry, research bodies, and university. Industry Institute Interaction Cell (IIIC) is constituted at the institute in coordination with Training and Placement (T&P) office. Each department has a   representative in this cell.
Roles and responsibilities of IIIC are:

- Identifying research opportunities and collaborative projects
- Assessment and evaluation of PEOs and POs.
- Arranging invited talks and industry visits.
- Evaluation of projects in project competitions.
- Constructive feedback on academic environment and for curriculum development.

2. Eminent academicians and researchers from renowned institutions and research organizations   are invited to enlighten the students on relevant topics within and beyond the syllabus.

3. The webinars, video lectures of expert faculty on selected topics are presented for students and faculty.

4. Institute interacts with SPPU through activities such as curriculum development workshops, syllabus implementation workshops, and Board of College & University Development (BCUD) projects.

5. Institute has successfully completed industry projects in various areas of the engineering, MBA and MCA. This has resulted in strengthening the institute industry network.

6. The institute has a very well established Training and Placement cell. This cell looks after placement of students as well as interaction with industry. It provides feedback from industry.

7. The college has signed up Memorandum of Understanding (MOUs) with companies from different domains. College organizes guest lectures, training sessions under these MOUs. This helps students to gain a broader view of the subject from industry point of view.

Table 1.1.5 a. Inputs taken from various beneficiaries

Name of the Beneficiary	Advice	Action Taken
Industry	Students are lagging in Aptitude and Communication skill.	• Employability Tests (ET) ET1, ET2, ET3, ET4 & ET5 are taken to improve aptitude test performance. • STP1, STP2, STP3 are organized for improving communication skills.
University	Project topic of BE should be verified by industry	Process is established for project topic finalization where Industry people participate for topic suggestion

MOUs signed by the institute:

Table 1.1.5 b. Number MOUs with industries

Sr. No.	Department	Count
1	STES Level	06
2	Institute Level	05
3	Mechanical Engineering	03
4	Electronics and Telecommunication Engineering	05
5	Computer Engineering	11
6	Information Technology	05
7	MBA	06
8	Civil Engineering	04
	Total	**45**

Table 1.1.5 c. Number of final year projects sponsored by companies

Year	2017-18	2016-17	2015-16	2014-15	2013-14
Final year Sponsored	69	46	174	350	116

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, and stakeholder feedback provided, specific suggestions, etc.)

The faculty members contribute in design, revision and updating of the curriculum from time to time by participating as a Subject expert, Subject chairman, evaluation schemes and part of the syllabus setting committee. Besides this, the feedback received from the stakeholders is communicated to university.

- Faculty has also attended University FDP for new course in curriculum.
- Feedback on curriculum is taken from students, alumni, industry, faculty and efforts are made in implementing those.

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

- The institute does not provide courses other than the University syllabus courses, but runs courses offered by SPPU for various programs.
- The institute through inputs from various stakeholders has identified curriculum gaps. The institute works closely with stakeholders who mainly include academicians, industry people, training institutes, and alumni to finalize needs of the students. Based on the needs, courses have been identified and categorized under VAPs and STP.
- The course contents of VAPs and STP are developed by the institute. Each department has developed VAP according to needs of the program. A sample list of STP and VAP is provided in Table 1.1.7

Table 1.1.7 Details of Student Training Program (STP)

Sr. No.	Course Title	Process of identification	Class/ Semester	Course duration in Hrs	Assessment tools used
1	**STP-1** Soft Skills development	Inputs from recruiters, alumni and students and other stakeholders	SE/Sem-I	20 Hrs	Assignments
2	**STP-2** (Communication Skills)	Inputs from recruiters, alumni and students and other stakeholders	SE/Sem-II	20 Hrs	Assignments
3	**STP-3** (Technical Skills)	Inputs from recruiters, alumni and students and other stakeholders	TE/Sem-I	28 Hrs	Tests

4	**STP-4** (Group Discussion and Personal Interview)	Inputs from recruiters, alumni and students and other stakeholders	TE/Sem-II	28 Hrs	Paper
	STP-4 (Research Methodology and Aptitude Training)	Inputs from recruiters, alumni and students and other stakeholders	TE/Sem-II	12 Hrs	Research Papers
5	**STP-5** Linux & Raspberry Pi	Inputs from industry and students and other stakeholders	BE E&TC	18Hrs	NA
	STP-5 Piping Design, GD&T 2015	Inputs from industry and students and other stakeholders	BE Mechanical	18Hrs	NA
	STP-5 Advanced Java , Android Developement	Inputs from industry and students and other stakeholders	BE Computer	18Hrs	NA
	STP-5 Microsoft .NET Certification	Inputs from industry and students and other stakeholders	BE IT	18Hrs	NA
	STP-5 Concrete Mix Design	Skill set needed for job profiles in software development	BE Civil	18Hrs	NA

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

Every Programme has PEOs and POs

- The Programme Education Objectives (PEO's) are achieved by the curriculum course outcomes and are revised once in four years as per the revision in the university syllabus.

- Content beyond syllabus is covered through different activities like guest lectures, industrial visits.

- **Program Educational Objectives and Program Outcomes**

Program Educational Objectives

I. Learning the fundamental principles and different methods.
II. Study of various cycles and evaluate performance.
III. Study of the various equipment-operating principles, operating and safety controls employed.
IV. To develop an ability to design a system, component, or process to meet desired needs within realistic constraints.
V. To develop an ability to identify, formulate, and solve engineering problems.
VI. Students will learn about what is heat transfer, what governs the rate of heat transfer and importance of heat transfer.
VII. The course provides practical exposure.

Program Outcomes

At the end of this course the students should be able to

a. Illustrate the fundamental principles and applications.
b. Present the properties, applications and environmental issues of different refrigerants.
c. Ability to have adequacy with Design, erection and development of energy conversion plants.
d. Optimization of Energy Conversion plant with respect to the available resources.
e. Formulate basic equations for a given problem.
f. Apply principles to design and evaluate performance of thermal systems.
g. Calculate and evaluate the impact of boundary conditions on the solutions of heat transfer problems.

Contribution of POs to PEOs	
▇▇▇	Strong Contribution
▇▇▇	Average Contribution
	No Contribution

POs / PEOs	a	b	c	d	e	f	g
I.	▇	▇	▇				
II.	▇		▇	▇	▇	▇	
III.			▇				
IV.			▇	▇	▇		
V.					▇	▇	▇
VI.						▇	
VII					▇	▇	▇

Figure 1.1.8 a. PEO's and PO's mapping and linking flowchart

1.2 Academic Flexibility

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

Goals and Objectives

I. To bridge the gap between curriculum and industry needs.
II. To gain knowledge on recent trends and technologies.

Apart from the programs affiliated to SPPU the college offers certification courses which basically serve the purpose of value addition. These courses enhance the employability skills of the students. In order to achieve the goals and objectives of institutions following programs are offered.

- Training by Zensar Technologies for Computer and IT students
- Business English certificate Exam of Cambridge University conducted by Sinhgad International Language Center.
- Soft skill training

Table 1.2.1 Certificate/Skill development courses

Sr No	Name of Department	Title	Target Student	No of Students	Resource Person
1	Mechanical Engineering	FUSION 360	TE, BE	90	From SW Systems (Autodesk ATC)
		Entrepreneurship and Job Opportunities in Government Sector	BE	30	Mr. U. G Betawadkar
2	Computer Engineering	IITFOSS	SE,TE	240	Online Course by IIT Bombay
		EDX	TE, BE	200	Online Course by Stanford University
3	Electronics and Telecom. Engineering	IITFOSS	SE,TE	669	Online Course by IIT Bombay(certification and training)
4	Information Technology	IITFOSS	SE,TE, BE	180	Online Course by IIT Bombay
5	M.C.A.	JAVA Spoken Tutorial	MCA	135	Online Course by IIT Bombay
		BEC	MCA	30	Ms. Dipti Prasad and Mr. Bapat - Cambridge Certified Trainers
6	M.B.A	Stock Mind	MBA I-Year	40	Mr. Amit kadam, ICICI Direct
		Equity dealer program in stock market	MBA II Year	43	Mr. Mukesh Kuwad, Propritor Mint Institute Pvt Ltd.
		SIX Sigma	MBA	20	Asian Institute of Quality management, UK
		BEC	MBA	12	Cambridge English language Assessment
7	F.E.	BEC	F.E.	08	Cambridge English language Assessment

1.2.2 Does the institution offer Programs that facilitate twinning/dual degree? If 'yes', give details.

The institute does not offer any twinning/dual degree program.

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

Skill development

- The institute provides academic flexibility to the students by providing industrial / research oriented projects in collaboration with research and development departments of core companies and thereby encouraging interdisciplinary work within the range of curriculum designed by the affiliating university.
- The institute also provides VAPs and STP to enhance the skills.
- Enrichment courses like add-on modules, students' workshops, guest lectures are offered to students to enhance their skill set.

Academic mobility

- The courses in SPPU undergo syllabus revision after every four years.
- The affiliating Savitribai Phule Pune University offers flexibility to institutes to design and offer so-called Open Elective based on the needs assessment of the stakeholders. Programme / departments design/select the elective and obtain due approval for the same from the university. Such electives are then offered to the students so that they are equipped with most relevant knowledge in the field of application.
- To illustrate electives are furnished as shown in table 1.2.3

Table 1.2.3 Open Electives offered by University and Institute

Mechancial Engineering	
Core / Elective offered by University	**Core / Elective offered by University**
Elective I	**Elective II**
Energy Audit Management	Gas Turbine Propulsion
Tribology	Product Design and Development
Reliability Engineering	Operation Research
Machine Tool Design	Advanced Manufacturing Processes
Elective III	**Elective IV**
Refrigeration and Air Conditioning Equipment Design	Computational Fluid Dynamics
Robotics	Finite Element Analysis
Industrial Engineering	Design of Pumps, Blowers and Compressors
Electronics and Telecommunication Engineering Department	
Elective I	**Elective II**
Digital image processing	Multi-rate and Adaptive signal processing
Embedded systems and RTOS	Electronic Product Design
Software Defined Radio	PLCs and Automation
Industrial Drives and Control	Artifical intelligence
Elective III	**Elective IV**
Speech and Audio signal processing	Biomedical signal processing

Audio and Video Engineering	Nano Electronics and MEMS
RF circuit design	Detection and Estimation Theory
Soft computing	wireless network
Civil Engineering	
Elective I	**Elective II**
Structural Design of Bridges	Matrix Methods of Structural Analysis
Systems Approach in Civil Engineering	Integrated Water Resources and Planning
Advanced Concrete Technology	TQM & MIS in Civil Engineering
Architecture and Town Planning	Earthquake Engineering
Advanced Engineering Geology with Rock	Advanced Geotechnical Engineering
Elective III	**Elective IV**
Advanced Structural Design	Construction Management
Advanced Foundation Engineering	Advanced Transportation Engineering
Hydropower Engineering	Statistical Analysis and Computational Methods in Civil Engineering
Air Pollution and control	Plumbing Engineering
Finite Element Method in Civil Engineering	Green Building Technology
Computer Engineering	
Elective I	**Elective II**
Mechanics	Problem Solving with Gamification
Computer Design Network and Modeling	Pervasive Computing
Advanced Computer Programming	Embedded Security
Data Mining Techniques and Applications	Multidisciplinary NLP
Elective III	**Elective IV**
Mobile Computing	Business Analytic and Intelligence
Web Technology	Operations Research for Algorithms in Scientific Applications
Cloud Computing	Mobile Applications
Cyber Security	
Information Technology	
Elective I	**Elective II**
Soft Computing	Business Intelligence
Usability Engineering	Service Oriented Architecture
Modern Compilers	E&M Governance
Parallel Algorithms and Design	Geo Informatics Systems
Cloud Computing	Natural Language Processing
Elective III	**Elective IV**
Mobile Computing	Bio Informatics
Advanced Graphics and Animation	Real Time and Embedded Systems
Information Storage and Retrieval	Green IT - Principles and Practices
IT Enabled Services	Internet of Things
Advanced Computer Networks	

- Expert lectures for difficult subjects as a preventive measure are introduced by departments.
- Webinars are arranged to cover contents beyond the syllabus and give students exposure to latest technologies.
- Experiments are also conducted beyond curriculum specified by the university.
- The choice based credit system is available for PG programmes in the affiliating University. However, it has been introduced for UG programmes in engineering for first year and second year only.

Progression to Higher Studies:-

- Guest lecturers for the same are organized by the T&P and Departments to boost the student's confidence to go for higher studies in various specializations.
- Every department arranges the industrial visit for every class based on the relevant subject. The visits are mapped to the curriculum subjects.
- The institute also encourages students to go for internship training in various industries during summer/winter vacation.

**1.2.4 Does the institution offer self-financed Programs? If 'yes', list them and indicate how they differ from other Programs, with reference to admission, curriculum, fee structure, teacher qualification, salary, etc.
No**

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

- Institute has T&P cell which arranges skill oriented programs as per needs of the employment market. The institute also has industry interaction programs where students get a chance to work with industry thus enhancing their employability skills.

Training and Placement facility:

- T&P cell conducts various skill oriented programs. In these programs, activities such as Group discussion (GD), Personal Interview (PI) sessions, Test Series of Quantitative Aptitude (QA) – Logical Reasoning (LR) are conducted throughout the academic year.
- Employability tests are designed and conducted based on requirements of the employers.
- A major statistical assessment platform to assess employability in the form of Aspiring Minds Computer Adaptive Test (AMCAT) is undertaken which is well accepted by top Multi National Companies (MNC's).
- Additional skill areas like soft skills and add-on technical skills are covered for student development through exclusively designed Student Training Programs (STP) and Value Addition Programs (VAPs). Details of Activities are provided in Figure 1.2.5

STUDENT TRANING PROGRAM - OVERVIEW

Figure 1.2.5: Student's Progression under STP

STP 1: SOFT SKILLS
- SWOT Analysis, Goal Setting, Personality And Stress Management, Behavioral Skills, Communication Skills
- AMCAT, Employability Test
- Writing Skills Competition

STP 2: COMMUNICATION SKILLS

- Listening, Reading(Technical And Nontechnical), Writing (Letter, Resume, CV, Report), Speaking(Public Speaking, Group Discussion)
- AMCAT, Employability Test
- Speaking Skills Competition

STP 3: TECHNICAL FUNDAMENTALS & APTITUDE TRAINING

- Technical Fundamentals

    I. Technical Training on: Data Structures & Algorithms, Object Oriented Programming and Problem Solving for E&TC, Computer and IT Engineering

II. Strength of Materials, Fluid Mechanics and Thermodynamics, Theory Of Machines, Manufacturing Processes and Metallurgy ,Design Of Machine Elements for Mechanical   Engineering

III. Technical Training on Surveying Structures and Construction, Water Resource Engg, Materials, Geotechnology Engg for Civil Engineering.

- Aptitude Training
- AMCAT, Employability Test

STP 4: RESEARCH METHODOLOGY AND APTITUDE TRAINING

- Research Methodology Training, Aptitude Training
- AMCAT, Employability Test
- Review Paper Competition

STP 5: INTERVIEW PREPARATION AND VALUE ADDITION PROGRAM

- Value Addition Program on: Java, Android Programming
- Group Discussion & Interview Preparation
- Employability Test

Industry Interaction Programs

- Institute has signed MOUs (Memorandum of Understanding) with industries. Refer table 1.1.5 b

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, SPPU does not provide flexibility to the institute for combining the conventional face-to-face and distance mode of education for students.

1.3 Curriculum Enrichment

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

- Considering the fast changing industry scenario, there is a scope for faculty to introduce a new skill development program into the curriculum.
- Institute has conducted various industry and domain expert guest lecturers as IoT, Latex, etc. This helps in qualitative technical education as per need of the industry along with co curricular activities.
- Institute has organized various workshops and real time site visits at various locations such as Mapro Industry, Suzlon windmill power station. This establishes healthy atmosphere for students and teachers by encouraging exchange of thoughts and discussion leading to their holistic development.
- Institution has arranged different guest lecturers seminars, Workshops, FDP, Industrial Visits to achieve Practical exposure and challenges in society
- The existing curriculum is enriched through following modules and activities:

- Institute arranges the VAPs and STP.
- Institute conducts various expert lecturers from industry and academicians to help students to enrich their knowledge beyond the curriculum.
- Institute arranges seminars and workshops on recent topics.
- Institute arranges the annual project exhibition.
- Institute arranges national level technical festival "Techtonic".
- Institute arranges the paper presentations.
- Institute also arranges the AMCAT tests and QALR tests for students to make them more suitable for industrial job profiles.

- Students are encouraged to participate in the research projects competition like "e-PGCON".
- Alumni interactions and industry visits are arranged periodically.

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

- The institute periodically calls alumni to meet HOD & students to discuss the needs of industry. The students are given training in these areas.
- The training and placement cell of the institute interacts with the Human Resource (HR) managers of reputed companies and collects information about requirements of the industry, regarding skill set of students. Considering these requirements, add on courses (VAPs and STP) and expert lectures are conducted. In such lectures, students and experts discuss one to one. This helps students to understand the current and future needs of industry and helps them to set their short and long terms goals.
- Student associations are constituted in all departments to inculcate the leadership and managerial skills. For e.g. electron-Winning Oriented & Radiant Telecommunication Society (e-WORTS) of Electronics and Telecommunication Engineers, Mechanical Engineering Students Association (MESA), Association of Computer Engineers (ACE), Civil Engineering Students Association (CESA), and Students Association of Information Technology (SAINT) are actively involved in arranging various activities.
- Institute also arranges the industrial visits to give students practical exposure and skill oriented certification programs to enrich their employment skills.
- Students are encouraged to work on industry sponsored projects refer table 1.1.5 c.

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?

- To integrate the cross cutting issues various awareness programmes are arranged for staff and students in the institute.
- Student grievance cell is formed in the institute to sensitize students about gender equality and to solve their problems. These committees consist of Principal, HODs, senior lady faculty member and students.
- There is a Teacher Guardian (TG) scheme in place. The TG looks after the overall progress of the student. TG also counsels, motivates and solves problems of the students.

- "Basic Civil and Environmental Engineering" course is included in the curriculum of SPPU, Pune. Besides this, institute organizes various activities like tree plantation, public awareness, and competitions to generate environmental awareness among the students. The activities suggested by apex bodies are carried out from time to time.
- National Service Scheme (NSS) has been started in the institute. Under CSR (Campus Social Responsibility) environment awareness camp, cleaning campaigns are organized on and off the campus frequently.
- As per the Government of Maharashtra and Directorate of Technical Education (DTE) norms institutes follows reservation policy for students' admissions. Anti Ragging committee has been formed and the list of members is displayed at prominent locations.
- Women Grievances cell is constituted. The committee is headed by a senior lady faculty and number of lady staff as members. Following activities were conducted by this cell.

Table.1.3.3 Activities of Internal Complaints Commitee

Sr. No.	Dates	Workshop Topic / Activity	Coordinator	Department
1.	08/03/2017	Hemoglobin checkup for girls & lady faculty members	Mrs. Jyoti A. Sangogi	E &TC Engg.
2.	27/02/2017	Worksop on People United for Sexual Harashment (PUSH)	Dr. Sheetal Ghorpade	First Year Engg.
3.	09/02/2017	Poster Presentation on "Save the Girl child"	Students Representatives	Civil Engg.
4.	18/1/2017	Seminar on Women Safety	Ms. Munmun Bhagat	Computer Engg.
5.	08/03/2015	Women's Day Celebration	Students Representatives	E &TC Engg.
6.	14/08/2014	Poster presentation on "Say no to Domestic violence"	Mrs. Snehal Bhosale	E&TC Engg.
7.	08/03/2014	Women's Day Celebration	Institute Coordinator and Rotary club	All departments
8.	08/03/2013	Women's Day Celebration	Students Representatives	E &TC Engg.
9.	05/01/2013	Addressing Women Grievances by Maharashtra Police	Mrs. Varsha Kshirsagar	All departments

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

- To imbibe the moral and ethical values in student blood donation camps, guest lectures, the Art of Living sessions are organized for students and faculty.
- Different cultural events are arranged in the institute during "Sinhgad Karandak" (an inter college competition). Students can show their technical as well as non technical talents through this. It consists of many technical events like paper writing, workshops, quizzes, etc. Along with it there is Group dance, solo dance, street play, Fashion Show, Fun fair activities. It gives the platform to students to showcase their talents.
- Different sports are arranged in Sinhagd Karandak and otherwise also to improve students team spirit, their management skills and also to improve their health.
- Institute organizes the "TECHTONIC", this includes all the technical events to storm students brains beyond threshold.
- The institute facilitates the students to participate in "VINODOTTAM KARANDAK" and "PURUSHOTTAM KARANDAK". These plays usually address the current social issues creating awareness about the community.
- List of the activities mainly focused to enrich moral and ethical values and community orientations which were conducted is given table 1.3.4. The institute makes students aware regarding their responsibility towards the society.

Table 1.3.4 List of Activities for Staff and Students

Sr. No.	Academic Year	Name of event	Dates
1	2017-18	Beti Bachao Beti Padhao	9th Oct 2017
2		Pollution Free Camp & Clean city Drive	5th Sept 2017
3	2016-17	One week Camp in Bhukum Village	10th to 16th Dec 2016
4		Cloth donation drive	12th Jan to 17th Feb 2016
5	2015-16	Swachchhata Abhiyan	13th Feb 2016
6		Seminar on Environment Science by Mr. Rajendra Shende (UNESCO Member)	9th Feb 2016
7		Social activities like Sweet distribution to Orphanage institute, blanket distribution at Swargate Bus stand, lunch arrangement at Matoshri old age home by RMDSSOE students	24th to 26th Jan 2016
8	2014-15	Blood donation camp	3rd July 2014
9		Social activities like Sweet distribution to Orphanage institute, blanket distribution at Swargate Bus stand, lunch arrangement at Matoshri old age home by RMDSSOE students	24th to 26th Jan 2015
10		Blood donation	24th Mar 2015

| 11 | 2013-14 | Social activities like Sweet distribution to Orphanage institute, blanket distribution at Swargate Bus stand, lunch arrangement at Matoshri old age home by RMDSSOE students | 24th to 26th Jan 2014 |

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:

- Alumni feedback is collected.
- Feedback is collected about project groups from project examiners appointed by SPPU.
- Feedback is taken from recruiters, when they come for campus recruitment.
- 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.

Table 1.3.5 Feedbacks from the Stake Holders

Sr. No.	Stake Holders	Feedback	Action Taken
1	Student	Value Addition Courses to be increased	Arranged PCB designing workshop
		Arrange more industry interaction for practical knowledge	Arranged industrial visits and training sessions to service station etc.
2	Parent	Results of students should be given to parents directly	Making phone calls and messages to parents regarding progress of ward
		College should initiate collaboration with Pune based Companies	MOUs signed with companies
3	Faculty	New syllabus explanation	Train the trainer program arranged
		Practical explanation	Support to attain STTP,FDP
4	Industry	Take value added courses beyond University syllabus	Arranged
		Include subjects in syllabus on which industry is working	Subjects included as BE Electives (Open elective)

These suggestions are discussed in the 'Board of Studies' meeting and the required amendments are incorporated in the curriculum and syllabus. These inputs are also used to design enrichment programmes.

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

To enrich curriculum institute has defined VAPs and STP, evaluation of which is done in following ways.

- The institution has a transparent way to monitor and evaluate the quality of various enrichment programmes initiated by it.
- The feedback in the form of interactions, discussions, and suggestions are analyzed by a specially constituted committee and a report is submitted to the HOD.
- The Institution makes sure that the programmes offered in the curriculum include contribution to national development, fostering global competencies among students, inculcating a value system among students, promoting the use of technology and quest for excellence.
- The Institute takes efforts to ensure that the curriculum bears a thrust on these core values include the initiative for contribution to national development.

Table 1.3.6 Evaluation Process

Enrichment Programs	Monitoring process	Evaluation Process
VAPs	- Attendance at courses - Reviews by HODs and VAP coordinators	- Feedback from students - Assignments, projects, and tests - Certification
STP	- Attendance during courses - Feedback from students - Reviews by HOD's and VAP coordinators	- Placements - Progression to Higher Education
Seminars & Workshops	Participation in events	Feedback from students
Industrial Visits	Participation in industrial visits	Visit reports
Paper presentation and project competition	Participation in events	Assessment by external experts on specially designed rubrics

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The institute is affiliated to SPPU Pune. The courses undergo syllabus revision every four years. This revision takes place during workshops, seminars for curriculum design organized by SPPU. Institute nominates expert faculty for such seminars &

workshops. Faculty gives valuable suggestions and share feedback received from stakeholders. Difficulties, if any, during the implementation of the curriculum are communicated to the concerned body of the university. Also, the institute hosts syllabus revision workshops and seminars.

Table 1.4.1a Syllabus Revision Workshop Conducted

Name of Dept.	Name of Activity	Dates
Information Technology	ME syllabus revision workshop (ME - IT, SPPU)	4th Aug 2014
Electronics and Telecommunications Engineering	TE syllabus revision workshop (TE- E&TC, SPPU)	23rd June 2017 & 24th June 2017

Table 1.4.1b Faculty Contributions to Curriculum Development

Sr. No.	Name of Departmen	Name of faculty	Faculty contributions
1	Mechanical Engineering	Mr. P. N. Deshmukh	Subject chairman for Material Handling Equipment design.
			Paper setter and examiner of Advance Machine Design
		Mr. N. D. Pagar	Subject chairman for Advanced Material Sciences
			Subject chairman / Peper setter for Tribology (UG/PG)
			Subject chairman for Adv Fracture Mechanics and Analysis and Synthesis of Mechanisms (PG)
		Mr. S. V. Patil	Subject chairman for Metrology and Quality Control
2	Civil Engineering	Mrs. Sarita Khot	Contributed in syllabus modification in syllabus reformation meeting of TE 2012 course at JSPM NARHE, Pune
		Mrs. Sarita Khot	Contributed in syllabus modification in syllabus reformation meeting of BE 2012 course at AISMMS, Pune
		Mr. Rahul Shinde Mr.Abhaysinha Shelake	"Construction and Management" syllabus setting for SPPU.
3	Electronics and Telecommunications Engineering	Mrs. Snehal Bhosale	Contributed in syllabus modification in syllabus reformation meeting of SE 2015 course at AISSM's COE, Pune
			Paper setter for Network Theory
		Ms. Saylee Begampure	Contributed in syllabus modification in syllabus reformation meeting of TE 2015 course at Modern COE, Pune

		Ms. Rupali Patil	Contributed in syllabus modification in syllabus reformation meeting of TE 2015 course at Modern COE, Pune
4	Information Technology	Ms. Snehal Nargundi	Contributed in syllabus modification in syllabus reformation meeting of TE 2012 course at SITS Narhe, Pune
5	Computer Engineering	Ms. Vina Lomte	"Software Modeling and Design" syllabus setting for SPPU

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?

- The institute has a formal feedback mechanism to record the views of the stakeholders on the curriculum. The feedbacks are taken through informal discussions in alumni and parents meet, suggestions from industry/employer, and academicians are obtained.
- Also, during the implementation of curriculum inputs from students and faculty are taken and are communicated to the concerned body of the university. Same is used as input to curriculum enrichment programs. Based on these experiences, institute designs / refines the curriculum enrichment programs.
- In the middle of the semester, AMC take the feedback from the students. Based on feedback and recommendations received to AMC the institute refines the curriculum enrichment programs.

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.

The governing body of the institute on the recommendations of local management committee decided to add new programs. Following are the new courses/programs started in the institute during the last four years.

Table 1.4.3 Postgraduate Programs

Sr. No.	Branch	Intake	Year of Starting	Rationale
1	Electronics and Telecommunication Engineering (Specialization in Embedded and VLSI)	24	2012	Provide facility for higher education in a specific branches
2	Mechanical Engineering (Specialization in Mechanical Design Engg)	24	2012	
3	Computer Engineering (First shift)	24	2012	
	Computer Engineering (Second shift)	24	2013	

4.	Civil Engineering (Specialization in Construction Management)	24	2013	
5	Information Technology (Second shift)	24	2013	

CRITERION II: TEACHING-LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

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

Publicity

- The schedule for admission is notified by DTE, Maharashtra on its website. The URL is
- http://www.dtemaharashtra.gov.in/approvedinstitutes/StaticPages/HomePage.aspx
- The institute advertises the admission process in prominent local, state and national newspapers. The advertisement details about the various programmes offered, its eligibility criteria, admission process, vacancies available. Appropriate social and e-media are selected for publicity of the admission process.
- Advertisement for admission to engineering colleges/MBA/MCA is given by DTE in prominent newspapers. The details of the admission process and the dates for various rounds are also given in newspapers.
- The institute has its own admission cell which plans and executes pre-admission publicity by reaching out to prospective stakeholders from October to May every year.
- All admission related information is available on institutional website www.sinhgad.edu.
- The institute participates in educational exhibitions in major cities across India. Students in the institute and also alumni help in publicity with their personal contacts.

Transparency

- Admission process is governed by the centralized admission process (CAP) of Directorate of Technical Education (DTE), Maharashtra. The information related to admission procedure, admission schedule, sanctioned intake, and fees structure is provided in the information brochure which is published every year by DTE and institute.

2.1.2 Explain in detail the criteria adopted and the 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 criterion decided by the DTE is strictly followed. The representative model which decides the eligibility of a student for admission to various programmes which were used in the 2015-16 admission process is shown in the table below:

Table 2.1.2 Eligibility criteria for admission in programmes at different levels

Quota	Eligibility criteria Score
Undergraduate Programmes	
100 %	i) Candidate should be a Indian National
	ii) Passed HSC or its equivalent examination with Physics and Mathematics as compulsory subjects along with Chemistry or biology or technical and obtained atleast 50 % marks in above subjects taken together OR Passes B.Sc. Degree from a Recognised University and obtained 50 % marks
	iii) Obtained score in MHT-CET 2016 by competent authority
Lateral Entry For Diploma students	Passed Dimploma in Engineering and Technolgy and obtain ateast 50 % marks
Post Graduate Programmes	
M.E	
100%	Graduate Aptitude Test for Engineering (GATE) score / institute level test, interview and B.E examination score.
MBA	
100%	Any Graduate with Minimum 50% marks for Open Category & 45% for Reserve category students. Qualifying Entrance Exams like- CAT, MAT, ATMA, MH-CET and XAT
MCA	
100%	MAH-MCA CET

| 1. JEE/CET Examination Notification |

| 2. Filling on line Application form for "Centralized Admission Process" (CAP) |

| "Institutional Admission" |

| 3. Document verification and confirmation of application at Application Receipt Center (ARC) |

| 4. Display of Provisional Merit List |

| Display of Merit Branch wise list |

| 5. Submission of Grievances if any to ARC |

| 6. Display of Final Merit List |

| 7. Filling & Confirmation of College option form by the candidate |

| "STUDENTS ADMITTED IN SPECIFIC BRANCH" |

| 8. Display of Allotment of College on DTE website: Get Admission |

| 9. Repeat Step no.7 and 8 for Round 2 and 3 |

| 10. Go for Round 4 |

After Round 4   Round 1 or 2 or 3 or 4

Admission at Institute Level   *Admission through*
                                        Central Admission Process (CAP)

Figure 2.1.1 Admission Process for Engineering

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

The institutes with which comparison is done are with in 5-6 km radius of RMDSTIC.The comparison done is based on the round wise reports of admission process available at the DTE,Maharashtra official website. Two of the institutes considered here are

1. Zeal College of Engineering and Research, Narhe (ZCOER).
2. JSPM's Narhe Technical Campus, Narhe (JSPMNTC).

Table 2.1.3. The details of marks at admission at entry level are given below.

Sr No	Programme	Year of Admission	Maximum Entrance Test Marks of Admitted Students			
			RMDSSOE		ZCOER	JSPMNTC
			Min.	Max.	Max.	Max.
1	Mechanical	2017-2018 (Composite Score out of 100)	31	131	--	--
	E&TC		20	73	--	--
	Computer		47	103	--	--
	IT		23	96	--	--
	Civil		27	111	--	--
	MBA		8	95	--	--
2	Mechanical	2016-2017 (Composite Score out of 100)	10	149	--	--
	E&TC		10	67	--	--
	Computer		36	121	--	--
	IT		38	97	--	--
	Civil		40	90	--	--
	MBA		6.85	92.46	--	--
	MCA		6	95	--	--
3	Mechanical	2015-2016 (Composite Score out of 100)	5.14	97.6	60.4	64.58
	E&TC		30.35	77.46	14.46	34.09
	Computer		16.51	89.64	63.17	65.95
	IT		3.75	80.15	36.85	--
	Civil		8.41	91.00	57.11	58.97
	MBA		1.13	95.88	--	--
	MCA		67.44	70.54	--	--

4	Mechanical	2014-2015 (Composite Score out of 100)	11.18	85.15	73.38	69.4
	E&TC		13.97	81.8	30.08	30.2
	Computer		14.67	90.05	58.47	65.21
	IT		14.30	74.81	28.74	--
	Civil		30.89	75.59	50.05	62.59
	MBA		2.03	93.65	--	--
	MCA		49.00	62.25	--	--

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 Principal, HODs, senior staff members and members of the admission committee review the current year admission status. Strategic policies are decided to enhance admissions against vacant seats.If the admission trend of the institute is followed, there is a slight decrease in the number of students getting admitted to a few courses. But if the overall trend of First Year admission is observed, most of the institutes are struggling to reach the 100 % mark. Close analysis shows increase in intake capacities of various institutes, increase in the number of institutes and less employment opportunities as vital reasons for the fall in admissions.

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.

- In order to attract the best talent from all the sections of the society and students from other states of the nation, the institute carries out the special campaign in the form of brand building through national and state level cultural and technical events for students. Events of state, national and international levels for faculty are also organized.
- Reservation rules as per DTE and state of Maharashtra are applicable to the admission process and strictly adhered to by the institute. Table 2.1.5 shows categories of admitted students for last four years.
- There is a special admission quota for the candidates of Jammu and Kashmir, which is administered by DTE Maharashtra.
- The talent in economically weaker sections is attracted through the quota under Tuition Fee Waiver Scheme (TFWS) which is over and above the sanctioned intake. Students getting admission in this quota have "full fee waiver".

Table 2.1.5. The percentage of students admitted in the Institute in the last four academic years.

Year	2017-2018		2016-2017		2015-2016		2014-2015		2013-2014	
Category	**Male**	**Female**	**Male**	**Female**	**Male**	**Female**	**Male**	**Female**	**Male**	**Female**
SC	5.90	1.54	9.44	6.63	10.86	7.69	6.98	13.93	3.80	1.8
ST	0.70	0.00	0.19	0.00	0.46	0.00	0.21	0.00	0.00	0.00
OBC	20.11	7.03	29.44	13.27	24.01	10.38	32.14	22.13	23.24	6.21
General	45.24	16.45	57.78	73.47	61.62	78.46	56.24	56.56	45.09	13.82
Economically weaker sections TFWS scheme	2.53	1.26	2.78	6.12	2.60	3.08	4.02	6.56	3.00	2.20
Special quota for J & K	0	0	0.37	0.51	0.46	0.38	0.42	0.82	0.80	0.00

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

Table 2.1.6.a Details for UG programmes offered by the institution during the last four years.

Sr. No.	Name of Programs	Year	Intake capacity (x)	No. of Students Admitted (y)	No. of application Received	Demand ratio (y/x)
1	Mechanical Engineering	2017-2018	309	200	Admission process in the state is only through CAP and governed by Directorate Technical Education (DTE), Government of Maharashtra. The Institute follows the rules, regulation and	0.64
		2016-2017	309	192		0.62
		2015-2016	309	264		0.85
		2014-2015	309	283		0.91
		2013-2014	309	289		0.93
		2012-2013	186	181		0.97
2	E&TC	2017-2018	63	41		.65
		2016-2017	63	35		0.55
		2015-2016	63	40		0.63
		2014-2015	63	41		0.65
		2013-2014	63	55		0.87
		2012-2013	63	64*		1.01
3	Computer Engineering	2017-2018	126	126		1.00
		2016-2017	126	127*		1.00
		2015-2016	126	124		0.98
		2014-2015	126	120		0.95

Sr. No.		Year			guidelines set	
		2013-2014	126	125	guidelines set by Savitribai Phule Pune University, Maharashtra State Government and AICTE.	0.99
		2012-2013	63	63		1.00
4	IT	2017-2018	63	62		0.98
		2016-2017	63	61		0.96
		2015-2016	63	63		1.00
		2014-2015	63	53		0.84
		2013-2014	63	58		0.92
		2012-2013	63	62		0.98
5	Civil	2017-2018	126	104		0.82
		2016-2017	126	104		0.82
		2015-2016	126	120		0.95
		2014-2015	126	126		1.00
		2013-2014	126	124		0.98
		2012-2013	126	126		1.00

(* Over and above quota eg. JK and Northeast)

Table 2.1.6.b Details for PG programmes offered by the institution during the last four years.

Sr. No.	Name of Programs	Year	Intake capacity (x)	No. of Students Admitted (y)	No. of application Received	Demand ratio (y/x)
1	Machine Design	2017-2018	18	01	Admission process in the state is only through CAP and governed by Directorate of Technical Education (DTE), Government of	0.04
		2016-2017	24	01		0.04
		2015-2016	24	14		0.58
		2014-2015	24	24		1.0
		2013-2014	24	24		1.0
		2012-2013	24	24		1.0
2	E&TC	2017-2018	24	03		0.12
		2016-2017	24	04		0.16
		2015-2016	24	16		0.67
		2014-2015	24	24		1.0
		2013-2014	24	24		1.0
		2012-2013	24	24		1.0
3	Computer	2017-2018	24	06		0.25

	Engineering	2016-2017	48	05	Maharashtra. The Institute follows the rules, regulation and guidelines set by Savitribai Phule Pune University, Maharashtra State Government and AICTE.	0.10
		2015-2016	48	23		0.48
		2014-2015	48	45		0.93
		2013-2014	48	48		1.0
		2012-2013	24	24		1.0
4	Information Technology	2016-2017	24	00		0.00
		2015-2016	24	02		0.17
		2014-2015	24	16		0.67
		2013-2014	24	24		1.0
		2012-2013	NA	NA		NA
5	Civil	2017-2018	24	18		0.75
		2016-2017	24	19		0.79
		2015-2016	24	24		1.0
		2014-2015	24	24		1.0
		2013-2014	24	24		1.0
		2012-2013	NA	NA		NA
6	MBA	2017-2018	180	179		0.99
		2016-2017	240	126		0.52
		2015-2016	240	134		0.56
		2014-2015	240	118		0.49
		2013-2014	240	166		0.69
		2012-2013	240	227		0.95
7	MCA	2016-2017	240	39		0.16
		2015-2016	300	22		0.07
		2014-2015	300+120 (Lateral Entry)	2+128=130		0.31
		2013-2014	300+120 (Lateral Entry)	27+121=148		0.35
		2012-2013	300	239		0.80

The reasons for decrease in admissions are as follows:

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

Action initiated for improvement:

- Students reporting to admission cell (set up at the college) are counseled before and during admission process of the importance of engineering and to choose the proper stream of engineering.
- Institute has strengthened Training and Placement activities by incorporating STP and Job Fair.
- The institute has signed Memorandum of Understanding (MoUs) with industries and institutions at national & international levels. This initiative helped us to create a dynamic learning environment which strengthens educational experience of faculty & students. Thus, students are exposed to the gradual and planned holistic development as an engineer. It helps us to attract students for admission.
- Advertisement in national level newspapers and news channels.
- Institute has initiated admission campaigning programme since 2014, which starts from September every year.

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 reservation for differently abled students is fixed by the government. In the light of the provisions of "The Persons with Disabilities Act" (PWD), 1995 (amended in 2009), the institute caters to the needs of differently-abled students as per the requirements of the individual student.The needs are assessed through individual counseling. The institute offers following facilities to differently-abled students

1. Providing university approved writers in examinations for visually challenged students.

2. Appropriate special arrangements for differently-abled students in university examination as per the university guidelines.

3. Extra time is provided as per university norms in the examination in case severity is high.

4. Priority services are given to such students in the library.

5. The ramp is available at the institute.

6. Lift service is available (6 lifts).

7. Provision for wheel chair has been made.

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

> **Yes.**

- The qualifying marks and the ranking of students admitted are analyzed for understanding the need and background of the student.
- The orientation programs at institute level and department level are organized on the very first day and second day of commencement of the program, where students are guided by the eminent personality in the field. The students also get introduced with the institute and department and also made aware about the different facilities and training programs available.
- The students need in terms of knowledge and skills are assessed continuously by conducting the three AMCAT test in SE, TE respectively.
- Based on the analysis of the Aspiring Minds Computer Adaptive Test (AMCAT) the contents of student training program (STP) get finalized. The STP is made a part of the timetable. STP is divided in five modules.
- The institute organizes series of lectures for final year and ME students to guide them on the issues like selection of project work, literature review, finding the research gap, defining the research problem, developing the methodology and writing the paper and project report/ dissertation/ thesis.

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

- The institute conducts two orientation programs on 1st and 2nd day of college at institute level and department level respectively.

- In institute level programs, they are made aware about the recent trends in market and informing about the engineering branch opportunities etc. by eminent personalities. Then they get introduced with the college and different facilities in college.

- In department level programs, they get introduced with the respective department and guided by the eminent personality in the field followed by ice-breaking sessions. Few mind games are conducted for the students.

- The department has different domain committees who review the curriculum and find the gap between curriculum to meet the targeted program outcomes.

- The inputs are also taken by industry person and academicians and pass out students.

- Teaching plan is prepared accordingly.

- The Guest lectures and events are planned to bridge the gap and made part of the teaching plan

- Institute has MOU with reputed companies, knowledge sharing through projects, industrial visit, etc. helps student updated.

- AMCAT test is conducted for SE and TE to test their aptitude and knowledge of students.

- Special training is given to the students on the recent treands of the industries through Student Training Programme (STP–I to STP–V).

- A 3 days QA&LR workshop is taken for third year students by professionals. This will help them to crack the aptitude.

- Remedial Classes are arranged for weaker students.

The Institute takes efforts for enabling the students to cope up with the fast developments in syllabi of various subjects as well as takes efforts in improvement of their general academic quality by organizing the different programs.

Table 2.2.3a shows details of activities carried out by the institute in order to bridge the identified gaps in students' competencies.

Table 2.2.3a Details of the enrichment programs and activities

Sr. No.	Gap to be bridged	Program	Details / course contents
1	Lack of Professional skills	STP I	Behavioral skills, goal setting, presentation skills, public speaking, resume, report writing, group discussion
2	Lack of Communication skills	STP II	Reading, Listening, Speaking and Writing
3	Lack of competence in technical concepts	STP III	Preparation for competitive exams
4	Lack of GD and PI skills	STP IV	Group Discussion and Personal Interview
5	Lack of application and Problem-solving skills.	STP V	Special courses on recent technologies
		Industrial projects	Students are encouraged to take industrial inplant training from second year onwards
		Lab Innovation	Students are encouraged to work on their ideas and build prototypes.
6	Academic preparation	K-Point Platform e-Exam Portal Self-Learning Classes	1. Audio lectures on all courses on the web server. 2. MCQ Practice Portal available on Android Phones 3. Special guided practicing classes in the timetable.
7	Advanced Technical courses	NPTEL, EDX	Courses of Experts from industry and leading institutes like IITs and IISc. Advanced courses from overseas Experts.
8	Modern tools and software	VAPs	These are the branch specific courses designed to provide state of the art training and practice on modern tools and software by professionals (3 days).
9	Knowledge	Invited talks	Each department arranges invited talks from experts in various fields to communicate current practices in industries.
10	Practical Application	Technical Clubs, Roboclub	College has teams in BAJA, SUPRA, ECOKART, ROBOCON etc.

Table 2.2.3b and Table 2.2.3c provide a summary of value addition programs conducted and expert lectures from industry and academia organized during last four years. Details are provided in the annexure.

Table 2.2.3 b. Summary of VAPs

Academic Year	Value Addition Programs						
	Mechanical	**Civil**	**Computer**	**IT**	**ENTC**	**MBA**	**MCA**
2017-18	5	1	3	1	3	4	Nil
2016-17	4	2	8	2	2	4	Nil
2015-16	2	1	2	1	5	4	4
2014-15	Nil	Nil	3	1	2	4	3
2013-14	Nil	Nil	2	1	5	4	3
2012-13	Nil	Nil	Nil	Nil	1	3	1
Total	**11**	**4**	**18**	**6**	**18**	**23**	**11**

Table 2.2.3 c. Summary of expert lectures

Academic Year	Expert lectures						
	Mechanical	**Civil**	**Computer**	**IT**	**ENTC**	**MBA**	**MCA**
2017-18	5	3	4	5	3	6	NA
2016-17	16	4	7	11	10	12	NIL
2015-16	17	3	6	7	5	11	6
2014-15	10	4	3	8	3	10	5
2013-14	6	3	8	18	2	11	12
2012-13	2	1	Nil	Nil	5	4	17
Total	**56**	**18**	**28**	**49**	**28**	**54**	**40**

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

Gender

- The institute fully follows professional work ethics without any discrimination as regards to specific gender. At work place though basic ethics of our Indian tradition and culture are followed wherever it is necessary while allocating specific tasks to our employees. In order to be cautious we have women's grievance cell set up in our institute.

- Due to enriched value based and equality culture we recorded very few cases under grievances cell. This, we consider as the strength of work culture at RMDSTIC.

Inclusion

The natural phenomenon in RMDSTIC is to lead by example while dealing with all sections of students and staff. We have inculcated the culture of equality to all sections while assigning the task at leader level or follower level. The inclusion has naturally been taken care while organizing seminars, workshops, conferences etc. In fact the voluntary interest areas of students and staff are identified and at least 1 or 2 such interest areas made compulsory for every student and staff. In the areas of their choice students and staff are encouraged to lead and excel. This naturally generates the sense of inclusion in RMDSTIC.

Environment

Besides focusing on internal needs of RMDSTIC it also takes care of the environment around it. Our institute with the whole hearted initiatives and participation of our staff and students associated frequently organize various programmes like road safety week, conducting computer education camp in remote areas, arranging food and monetary help to elders (old age home) etc. Cleanliness of area around the campus was done by students. Tree plantations activity was also conducted at college campus.

Our student body MESA in collaboration with HERO Moto Corp is conducting "RIDE SAFE" campaign for the last two years.

As part of our social responsibility the college infrastructure is made available to ROTARY CLUB (including Inner Wheel) Warje to organize various activities of the organization (after college hours)

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

Advanced learners are identified based on their consistent attentiveness, ability of asking smart questions, curiosity towards particular topic, their semester and university performance. Also in general the needs of students over and above university curriculum are identified. These advanced learner are then exposed to following:

- They are encouraged to undertake innovative proposals by coupling them with the faculty experts in chosen areas.
- These students are provided with opportunities to undertake live mini projects and lab innovations.
- Preparing website, designing logo etc are the activities allocated to these students.
- The industry and academic experts are invited to guide them in areas of their requirement.

- They are encouraged to participate in project competitions organized by top class academic institutions and professional bodies like SAE, IEEE and others.
- The institute also in the recent years has actively supported its students to participate in events like SAE INDIA BAJA, SUPRA, ECOKART, ROBOCON etc which helps the students to bridge the gap between learnings in the college and practical application of the same. The teams have done a commendable job in competing with colleges all across India. For e.g. SAEBAJA team secured 71st position at all India level, ECOCART team secured 24th position in virtual round and was the fastest car for the year 2016.

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)?

Data collection

- Under the guidance of academic monitoring committee, a Teacher Guardian (TG) system is well established in the institute. Right from Semester-I the history file of students is generated by teacher guardians. Meeting of students with respective teacher guardian takes place regularly. In these meetings a teacher guardian interacts with the allotted students formally and informally.
- Through these formal and informal interactions a teacher guardian is able to note the background of a student from which the information about economically weaker students is identified.
- Depending on the requirement of a particular student the fees concession is provided so that it creates an ease in academic development of such students. Also such students are professionally and emotionally taken care by TG along with other teachers.
- Apart from identifying physically challenged and economically weaker students we also have a mechanism to identify slow learners. This is done through the interactions of TGs with concerned class teacher and head of the department. Such students are provided extra inputs through subject experts and counseling by HOD.
- Also the subject wise rigorous analysis of results of in semester exams, slow learners and lagging students are identified. They are counseled for assertive attitude towards the professional career and are given special attention through exposing them to extra tests and typical study material. The assessment of these students based on this is done and feedback is communicated to them.

Data Analysis and documentation

- Special files known as history files of all students are generated in semester-I and transferred progressively to the concerned teacher guardian till the end of semester-VIII.

- These files help to monitor and assess the progress of a student from semester to semester.
- The result analysis is done after the declaration of university results.
- This is used to address topper students and provide extra inputs to students who are lagging.
- The rigorously scrutinized data is reported to academic monitoring committee (AMC).
- The academic monitoring committee during its visits to the institute guides the faculty on various actions to be taken to improve the performance of students.

Institute uses the data as follows,

For Slow learners

- A group of slow learners is formed and special guidance session is arranged under the guidance of subject expert from the institute.
- Practice sessions on university question bank are arranged.
- The inputs from parents of slow learners are collected by respective TGs to enhance their learning capabilities

For economically weaker students

- Tuition Fee Weavers Scheme (TFWS) is implemented.
- Allowed to pay fees in installments.
- In special cases a concession/waiver in fees is also considered.
- Department library facility for economically weak students.

For scholarship to students

SC/ST/OBC, Minority, EBC students get the benefit of reservation in admission and scholarships as per government norms. The institute has separate student sections in the administrative offices, which is headed by Office Superintendent (OS), who is well versed with the rules and regulations, related to social welfare schemes and provide guidance to the students to apply for these schemes.

2.3   Teaching-Learning Process

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

Savitribai Phule Pune University (SPPU) has laid down the number of days that would be available for teaching and evaluation. The subject teacher and the departments take utmost care to complete teaching and evaluation within the stipulated time by following strategies semester-wise.

- The Academic year starts in accordance with the schedule given in the Academic Calendar of University.
- The college prepares the Academic Calendar mapping to the Academic Calendar of University.

- The Academic Calendar of Department takes into consideration and the deadlines are specified both in Academic Calendar of University as well as Academic Calendar of the institute.
- Before start of Semester, load distribution is done according to subject choice offered by faculty.
  Load distribution guidelines of Academic Monitoring Committee (AMC) are taken into consideration while distributing the load. The timetable is prepared by timetable committee in consultation with other departments (wherever required).
- Every subject teacher identifies the requirements in terms of practicals for his/her subject and ensures set up of laboratory. The new/current syllabus is taken from faculty and the purchase procedure is carried out. Conditions of the existing instruments/equipments are inspected before the commencement of each semester and maintenance work is undertaken.
- Every faculty prepares Course File before commencement of teaching and gets it approved by HOD. The Course File consists of teaching plan, content analysis, subject history, results analysis of subjects, previous years question papers, continuous evaluation sheets and notes.
- The Timetable is displayed on notice boards in advance. The Class teachers for each class and Guardian teachers for each batch are appointed and contact details are displayed on notice board and website.
- The attendance of students is monitored and respective Teacher Guardians make phone calls to absent students and their parents. Letters are sent to parents of students who continually remain absent. There is a defaulter list displayed at the end of each month and parents of such students are called to college to meet the authorities and give explanation about their wards poor attendance.
- The Teaching plan is regularly monitored by HOD after regular intervals in order to ensure that teaching learning is going as per planned schedule. The records of lectures delivered as per the time table are maintained and verified by the class teacher and academic monitoring committee.
- Student's performances are continuously evaluated by tutorials, midsem tests and remedial actions are undertaken. Mid-sem tests results, online results are analyzed and weak students are counseled and provided necessary help.
- Extra lectures are allocated in the timetable to cover the curriculum in more elaborate way as per the subject requirement.
- Guardian Teachers counsels the students having poor attendance and performance. They also conduct meetings with their parents periodically. Thus, parents are kept informed about their ward regularly.
- An undertaking is taken (for improvement in attendance) from students who have very poor attendance.
- Academic calendar for the academic year 2016-2017 is given below.

Sinhgad Technical Education Society's
RMD SINHGAD TECHNICAL INSTITUTES CAMPUS
RMD SINHGAD SCHOOL OF ENGINEERING
Sinhgad Institutes   Approved by AICTE, New Delhi, Recognized by Government of Maharashtra, affiliated by S.P. Pune University
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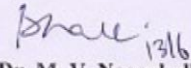
Prof. M. N. Navale	Dr. (Mrs.) Sunanda M. Navale	Dr. C. B. Bangal
M.E. (ELEC.), MIE, MBA	B.A., M.P.M., Ph.D.	M.E.(Electrical),Ph.D.,B.J.
FOUNDER PRESIDENT	FOUNDER SECRETARY	PRINCIPAL

ACADEMIC CALENDER / SE- 2017-18 / SEMESTER –I

Department: Mechanical Engineering

Sr. No.	Particulars	Date & Day
1.	Commencement of Teaching	15th June 2017 (Thu)
2.	First Defaulter List	17th July 2017 (Mon)
3.	Unit Test-I and Mock Online (30 Marks / 1hour/ Unit 1,2)	31st July – 2nd Aug 2017 (Mon-Wed)
	Declaration of Result of Unit Test-I	3rd Aug 2017 (Thu)
4.	Parents' Meet	4th Aug 2017 (Fri)
5.	Second Defaulter List	16th Aug 2017 (Wed)
6.	Mid Term Submission *	21st Aug – 25th Aug 2017 (Mon-Fri)
7.	Third Defaulter List	15th Sept 2017 (Fri)
8.	Conclusion of Teaching & Display of Final Detention List	29th Sept 2017 (Fri)
9.	Prelim Exam and Mock Online (50 Marks / 2 hours/ All 6 Units)**	3rd Oct-9th Oct (Tue - Fri)
	Declaration of Result of Prelim Exam	10th Oct 2017 (Tue)
10.	Mock Practical & Final Submission	10th Oct-13th Oct (Tue-Fri)
11.	Issue of Term Grant Certificate to All Clear Students in Prelim Exam & Mock Practical	10th Oct 2017 (Tue)
12.	University Examinations: a. Practical/Oral b. Theory (End Sem)	24th Oct-9th Nov 2017 14th Nov onwards

* 50% Submission should be completed & duly certified by the Faculty & HOD.
Holidays as per Circular from Savitribai Phule Pune University.

Dr. M. V. Nagarhalli
HOD

- Revision and remedial classes are conducted towards the end of the course. Open house sessions are conducted for students having poor attendance and suitable assignments are given to them.
- Submission is done in the allotted time and term work marks are allotted based on continuous assessment.

- Co-curricular and extra-curricular activities are organized to supplement the curriculum.
- The Head of respective departments conducts regular meetings of faculties to discuss the lacuna/ shortcomings/ problems and possible solutions to overcome them.
- There is a mock in semester examination conducted at the end of 50% completion of syllabus for TE and BE and mock online examination for FE and SE. There are retest examinations to improve student performance.
- At the end of class room teaching there are turns for repetition of practical.
- Prelim examination is conducted at the end of semester to evaluate student performance.
- Savitribai Phule Pune University examination schedule is displayed on notice board and examinations are conducted as per University rules and regulations.
- Result analysis is carried out after declaration of the University result its record is kept and is used for further improvements.

Table 2.3.1. Result analysis and follow-up for poor results.

Period	Class	Subject	Semester Result in %	Action
2015-16	T.E.Civil	Structural Design I	53	Counseling & Remedial lectures for students
	SE Computer	Engineering Mathematics III	56.06	
2014-15	TE E&Tc	Digital Communication	62	Counseling and remedial classes are arranged
	T.E. Civil	Hydrology and Water Resources Engineering	54.1	
	SE Mechanical	Strength of Materials	64.61	
2013-14	T.E.Civil	Hydrology and Water Resources Engineering	55.1	Counseling & Remedial lectures for students.
	T.E.Civil	Structural Design I	57	
	SE Mechanical	Mathematics III	40	
	SE Mechanical	Strength of Materials	51	
	SE E&TC	Solid State Devices and Circuits	57	

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

The institute has an Academic Monitoring Committee (AMC) which comprises of external peer members.

- All the academic process are governed by AMC.
- AMC keenly monitors the academic process and execution of teaching plan takes corrective measures.
- AMC collects the online student's feedback and takes the required corrective measures.
- AMC provides the support in implementation in all the academic polices.
- AMC acts as an interactive platform between faculty, management and stake holder to improve the process of institute.

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 stake-holders. Efforts are being made to groom them as social engineers.

1. Interactive Learning:

To make learning interactive many Pedagogical skills are used in teaching. Few of which are listed:

- Role Play
- Quiz
- Project based Learning (in some departments)

2. Collaborative Learning:

- The institute has signed MOU with few industries. Students and staff work on the real time problems of industry.
- Mini project and project as part of curriculum.
- Industrial visits are organized to get exposure.
- Indusrial inplant training to students in summer and winter vacations.

3. Independent Learning:

The independent learning occurs through

- Design assignments
- Participation in different competitions.

Details of support structure and systems available:
Infrastructure Support:

- Class rooms and tutorial room with LCD projector
- K-point server for uploading the lectures on internet.
- Stationary and support required for preparing innovative learning material

Training Support:

- Organization of Train the trainer program where all the subject content and teaching methodology is discussed in each semester.

- Organization of Teacher Advancement Program and many events like STTP/ FDP/ Seminars / Workshop/ Conference for faculty enrichment.
- Supporting faculty to attend STTP/ FDP/ Seminars/Workshop/Conference for faculty enrichment.

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?

- The institute organizes different activities through student association to nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators. Few of which are listed below:
- TECHTONIC is a technical event organized by Institute every year. It is a state level event in which activities like Technical Competitions, Quiz, Roborace etc are conducted for the students.
- Faculty encourages the students to participate in different technical paper writing and poster competitions organized across University region/state level competition.
- Students are encouraged and guided to undertake industry sponsored projects.
- Students are encouraged and financially supported to participate into the competitions like Robocon, SAE,BAJA, Supra, ECOKART.
- Different project competitions and model making competitions are organized to nurture and support critical thinking and creativity.
- Workshops on cutting edge technology are organized to help the students to understand the fast changes in technology.
- Industrial visits are organized to get exposure to real time working.
- National Conference, seminars and workshop are organized to give the platform to the students.
- Wall magazine are published on regular basis.

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

Faculty members are encouraged to use library, digital library and other Open Source platforms to make the subject more informative. They are used by the students and faculty through presentations. Institute has created an online exam portal for staff to create tests and for students to practice these tests. Also, it has created K-point training module for various courses. These portals are available for the staff. In K-point portal lecture notes prepared by faculty are uploaded. Staff members of all the departments have registered for NPTEL online courses and appearing exams for upgradation of knowledge.

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

Faculty:
- The Institute promotes the faculty to participate in different technical programs.
- The Institute provides faculty the latest available technical information through subscription of reputed journals like Science Direct and IEEE.
- Staff members are deputed to attend FDP, workshops, seminars.
- FDP's are organized in the institute.

Students:
- The Institute organizes various technical competitions such as paper presentations, project competitions, Quiz and poster competitions.
- The faculty encourages students to undertake projects on advanced technologies, industry sponsored projects.
- The Institute promotes students to participate in National/International competitions like SAE- BAJA and events by providing all technical and financial support.
- Eminent speakers are invited from the industry to deliver lectures so as to expose the students to developments in the field of their study.
- Workshops are held for the students from experts to give hands on experience.

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

Mentoring Scheme

The institute has implemented the concept of Teacher Guardian (TG) scheme. The concept of TG scheme is: A batch students is assigned to each teacher who acts the local guardian. The TG maintains history card, which contains information of each student related to his/her previous academic performance, family background and contact details. Regular meetings are conducted by TG during the semester and any problems of the students are reported to HOD

TG regularly interacts with students and provides academic as well as personal guidance.These points are noted down in the teacher guardian diary by each teacher as well as separate attendance record is maintained throughout the semester. Students are also guided for any career field as per his/her interest.Reports of the meeting are reviewed by HoDs and same is communicated to the Principal. HODs also counsel the students and advise them from time to time about career guidance, competitive examinations, etc. Senior faculties counsel the students for psychological problems faced by them.

Guidance Services

- The T & P cell counsel the students regularly.

- HOD and senior faculty discuss about personality, professional development, and entrepreneurship with the students.
- Guidance for competitive exams for e.g. GATE, MPSC, UPSC, IES, GRE, TOEFL.
- Students have participated in SAE BAJA &eco-cart as national level. Their performance was very encouraging [Ranked 71st in SAE INDIA BAJA 2016 out of 390+ teams].
- Students also took part in ROBOCON India 2017
- Workshop on "Entrepreneurship" is organized for students.

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

Innovative teaching approaches/methods adopted by the faculty

- The lecture is made more student centric by conducting activities like group discussions, role play and technical debates.
- Faculty members share their notes, question banks and power point presentations with students.
- Digital library and online journals to download, study materials and data from internet.
- To help improve self learning ability and team work the students are assigned different tasks such as group assignment, case studies and mini projects..
- Teaching is best way to learn; in presentation activity students are asked to prepare lecture on any of the topic related to course. This lecture has to be delivered to peers.
- Use of modern teaching aids like videos, animations etc are used.

Efforts made by the institution

- Each faculty has to undergo TAP and TTT in which they are trained for effective teaching and learning methods.
- Institute has signed MoU with industries in which faculty and students work on industrial projects. Most of these projects are aligned to one of the courses to be taught. This way student gets practical relevance of the subject.
- Institute has designed innovative educational model for professional and personal growth of the students.

Impact of innovative practices on student learning:
- The students get a feel of the subject with videos and animations.
- The interest of the student increases their understanding.

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

The institute central library facility has good collection of learning resource.

Table 2.3.9 Library holdings

Library holdings	2016-17	2015-16	2014-15	2013-14
Total Volume	17822	16367	15240	14530
Text books	15147	14347	13585	12356
Reference books	4181	3645	3371	3157
Journals/periodicals	80	85	14	22
E-resources	3 Database	3Database	2 Databases	1 Database

National & International print journals are subscribed to update the current knowledge of the stakeholder in the irrespective field.

- e- Journals have been subscribed.
- As the e-journals access is IP based, the stake holders can take benefit of this facility from anywhere in the campus at anytime.
- Books are arranged subject wise and department wise and personal attention is given for fulfilling their library related needs.
- Open access facility is available. Library Staff motivate the students for open access to aware them about the latest arrivals.
- Separate Reference, Periodical, Circulation, and Digital Library section and reading room facility is available in the Library.

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, The institute indeed faces challenges in completion of syllabi. Efforts are taken by engaging extra lectures to complete syllabus. Mock online tests are taken to make the students familiar with the new system which helps in enhancing the student performance to a greater extent.

Some of the challenges faced are listed below:

- Delay in the admission process has been the biggest hurdle carried out by DTE for first year and direct second year (lateral entry) students. The delay leads to less time available for teaching, affecting results.
- Time slots provided by the University is limited for all the subjects but certain subjects need more time depending upon grasping power of students.
- For some subjects' additional teaching hours are provided to cover prerequisites.
- Because of newly introduced in-semester theory and online university exams, we have to readjust our teaching schedules for timely completion of syllabus.
- Theory-practical synchronization- Some challenges are faced during theory sessions for co-relation with practicals due to vast syllabus and holidays on practicals and theory sessions.These are overcome by having shuffling of

the sequence of theory and practical sessions.Extra input sessions for theory and practicals are conducted.

Efforts to overcome the challenges:

- Extra classes, practice tests are taken to complete the backlog of syllabus. Assignments are given.
- A subject coordinator is appointed to take care of that subject and discuss with other faculty taking that subject.
- TTT and expert lectures are arranged for the newly inducted staff.

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

- Quality of teaching can be assessed by students' feedback in the middle of the semester, and regular checking thecourse file of the faculty.
- Course file of individual faculty containing study material, assignments is evaluated by the HOD each month and by the AMC at the end of each semester.
- Students' feedback is scrouplouslyanalysed and instructions are given accordingly to individual faculty member.
- Quality of learning is assessed by student's performance in various tests, quality of the projects and student's performance in competitions conducted by institute and other agencies.
- Institute conducts tests regularly to keep the track on student's progress. Result analysisof internal examinations are done and remedial measures are taken.
- The results are monitored to evaluate the teaching learning process.
- Academic and industrial experts are involved in evaluating the projects prepared by students.
- Supervision of lecture and practical sessions is done by vigilance /monitoring committee and HOD. Appreciation of the good performers and Memos to defaulting faculty is given as per case.
- CCTV cameras in First year class rooms to monitor discipline in classrooms.

2.4 Teacher Quality

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

Recruitment strategies

Faculty and staff members are recruited as per the All India Council For Technical Education/ Savatribai Phule Pune University guidelines.

The selection process is as follows:
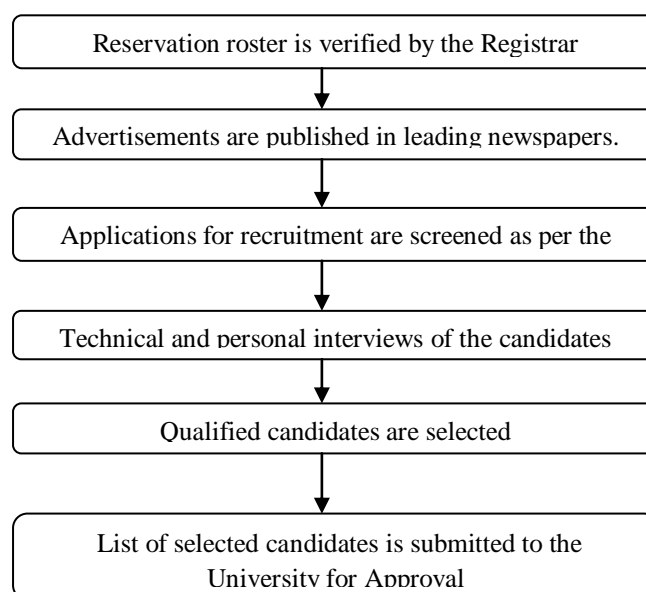
Figure 2.4.1. Selection process for recruitment

Table 2.4.1 Number of faculty with qualification

Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
Ph.D.	4	0	1	2	0	1	8
M. Phil./M.Ed	0	0	0	0	2	0	2
M.E./M. Tech/M.Sc./MBA	0	0	0	0	83	64	147
Total	4	0	1	2	85	65	**157**

Retention strategies:

The institute has adopted a policy that is aimed at retaining its faculty. Following strategies are adopted to ensure faculty retention

1. **Academic atmosphere:** The institute takes efforts to maintain best academic ambience in the campus. The teachers are encouraged in academic pursuits like attending conferences, writing research papers, books and inviting experts to address the students and faculty.
2. **Regular appraisals and DA** upgradation done as per the guidelines of Government of Maharashtra. The DA arrears is also paid.
3. **Regular appreciation of faculty performance:** Upon the result analysis of the university examinations, the outstanding performances are appreciated every semester.
4. Institute deputes/sponsors faculty for higher studies as well as conferences and workshops.

5. Teachers are appreciated every year in teachers day function.
6. Insurance scheme for staff and students
7. Staff Quarters in limited numbers
8. Free Medical and Sports facility

All these measures have substantially helped the institute to retain competent and qualified teachers.

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

1. The institute has been appointing highly qualified senior faculty to handle new and emerging subjects as proposed in the curriculum of SPPU to which the institute is affiliated.
2. The institute also arranges faculty development programs to refine the skills of faculty as per the need of the curriculum.
3. Eminent personalities are invited from industries to deliver expert lectures to the faculty so as to enable them to bridge the gap in the curriculum.
4. Institute offers extension to the services of superannuated faculty derives extended benefit of their expertise.
5. In last three years, the institute has invited the visiting faculty/guest lecturers from the different fields. Sample topics from each department are listed below. The details list is provided in the annexure. (Table 2.4.2 a)

Table 2.4.2a Sample of invited talk, expert faculty and visiting faculty

Sr. No.	Year	Department	Topic	Expert faculty
1	2017-18	Mechanical	Trends of Simulation domain in Automobile Sector	Mr.Yogesh Surkutwar
2			Adjunct Lecture on Lean Manufacturing	Mr.Girsih Gangapurkar
3		E&TC	Guidance for student on topic " Career opportunities in industry after engineering"	Mr. Kanhaiyya Gorane
4			Guidance for students on the topic "Career opportunity in Electronic and communication field"	Mr. Hemant Dusane Manager
5		IT	Ethical Hacking	Mr. Vikash Chaudhary
6			Higher Studies	Mr. Yogesh Ranga
7			Competitive Exams	Mr. Amulya Ratan
8			Skill Development	Mr.Dwipay Diwan

9		COMP	Computer Organization and Architecture	Mr. M.V. Nimbalkar
			Feasibility Study	Mrs. Rupali Pandharpatte
			VHDL	Mr. Ashish Khadlak
			Engineering Economics	Mr. Prashant Patil
			Object Oriented Programming Standard Template lib. and Files	Mr. Anuj Raut
10		CIVIL	Ash Bund in Thermal Power Plant	Mr. R. B. Dave
11			Infrastructure Engineering-Warehouse Construction	Mr. S. D. Pathak
12			Finance Management in Construction	Mr. Yamaji Malkar
13		MBA	Capital Markets in India	Mr. Amit Kadam
14			Entrepreneurs as architects of New India	Ms. Preeti Bhatia
15			Awareness session about Stem cell donation	Ms. Reena Datta
16			Digital Marketing - A way to future	Mr. Rohit Deo
17			Competency Development & Talent Management	Mrs. Sonali Banerjee
18			Campus to Corporate	Mr. Mahesh Kudtarkar
1	2016-17	Mechanical	Power Plant Engineering	Mr. Arvind Paranjape
2			Engineering Metallurgy	Mr.Nitin Datar
3		E&TC	Artificial Intelligence and Neural Networks	Mr. Vinayak Rajput (Founder and Director, Replete Business Solution Pvt. Ltd., Pune), Mr. Sudish Kumar (Vice President of Sales Acia-Pacific Perpetuate Technology, Pune)

4		MBA	Aptitude Tests	Sonali Banerjee,HR Manager, TM Conductors
5		Mechanical	Engineering Metals	Mr. Ganesh Darekar (Asst. General Manager at Kores India, Pune)
6		Civil	Practical Skill Development in "Concrete Mix Design"	Mr. Vaibhav Babtiwala
7		Computer	DSPS- Data Structure & Problem Solving	Mr. Shrikant Avachar,(Euronet Services India Pvt Ltd)
8		Information Technology	SAP	Mr. Vivek Upadhyay (ISUN Solutions)
9	2015-16	MCA	Hadoop: Big Data	Mr.Veershetty Dagade Director Research and Talent Development, ScaleByte
10		Civil	"Natural disasters Management in particular Earthquake, Tsunami, with causes/ Preventive measures/ Awareness"	Mr. Anil Dandekar
11		Computer	Advances in Oracle Technology	Mr.Prabhojot Singh Oberoi,(Oracle Pvt. Ltd.,Pune)
12		Information Technology	I Cloud	Mr. BipinKulkarni (Bitwise InfosystemPvt Ltd)
13		E&TC	Arduino	Mr. AnupranTrivedi (CEO Campus component, Swargate, Pune)
14		MCA	Seminar on IOS/Android	Mr. Amar Kant Director, Technogoalit
15		Mechanical	Sheet Metal Process in Industries	Mr. Girish Poipkar (Director at Horizon Enviornment Engineering Solution)

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

a) Nomination to staff development programs
   1. The institute organizes the Faculty Development Program minimum twice in a year on various subjects including teaching methodology.
   2. In the past 4 years, in all FDPs and workshops were conducted in the institute.
   3. Faculty members are also encouraged to participate in conferences, seminars and workshops conducted by other institutes.

4. Besides several in-house programs, faculty members are encouraged to participate in refresher courses/orientation programs conducted by other institutes.

Table 2.4.3 Details of number of nominated faculties for faculty development programs

Faculty Training Programs	Number of faculty Nominated					
	2017-18	2016-17	2015-16	2014-15	2013-14	Total
Refresher courses	0	10	14	46	17	87
Orientation Programs	22	16	9	10	11	36
Staff training conducted by the university	11	3	8	8	4	23
Staff training conducted by other institutions	3	8	19	12	8	47
Summer/winter schools, workshops, etc.	29	40	6	1	14	61

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

The management is keen on professional development of the faculty in being abreast with latest technology trends. The following are some of the highlights:
1. Teaching Learning methods/approaches:
   - In-house TTTprograms are regularly arranged on every revision in curriculum by SPPU.
   - Project based learning and active learning modules
2. Handling New Curriculum:
   The institute deputes its faculty members for syllabus revision workshops and seminars organized by SPPU and its affiliated institutes to become well verse with intent and content of new syllabi.
3. Content/Knowledge Management:
   - Use of modern teaching aids such as presentations, NPTEL video lectures, Online courses, Technological Animations etc.
   - Free access to e-resources like journals and reference books through institute library.
4. Use of enrichment materials:
   Institute encourages enriching activities based on Case-Study presentations, Advanced technology trends, Latest teaching methodologies, tools and techniques.
5. Assessment:
   - Assessment of analysis of the students' performance in various aspects such as curricular and co-curricular aspects.
   - Feedback from students once in a semester regarding instruction delivery by the faculty.
6. Teaching learning material development, selection and use
   - Faculty members explore latest developments in technology via internet.
   - The online access to Science Direct journals enable faculty to explore and exploit huge literature resource.

- Institute has developed e-Learning platform

Sample of Activities held towards empowerment and enabling faculty are shown in table 2.4.3a.

Table 2.4.3 a. Empowerment activities

Sr. No.	Department	Activity/Workshop	Date	Sponsoring agency
1	All Departments	Train The Trainers	5th -10th June 2017	Self Sponsored
2	Mechanical	Research Areas in Defence Applications	10th March 2017	Self Sponsored
3	IT	Big Data Analytics on Hadoop	29th Feb and 1st March 2016	SPPU
4	Computer	Ethical hacking using Kali Linux	15th -16th Feb 2016	SPPU Sponsored
5	E&TC	Mathematical Modelling in signal processing	29th -30th January 2016	SPPU
		Workshop on Network Simulator (NS3)	31st Oct 2015	Self Sponsored
		Research Directions in WSN and IoT	27th -28th January 2017	SPPU Sponsored
6	All Departments	Train The Trainers	9th -14th Dec 2013	Self Sponsored
			4th – 6th Dec 2013	Self Sponsored
			17th -22nd June 2013	Self Sponsored
			11th -13th Dec 2014	Self Sponsored
		TAP I & II	15th - 17th Oct 2013	Self Sponsored
		TAP I & II	29th Nov to 1st Dec 2013	Self Sponsored

c) **Percentage of faculty**

Table 2.4.3b shows summary of faculty contributions in various activities

Table 2.4.3 b. Summary of the faculty contributions

Sr. No.	Activity	Academic Year				
		2017-18 in %	2016-17 in %	2015-16 in %	2014-15 in %	2013-14 in %
1	Invited as Resource Person in Workshops /seminar /conferences	4.46	5.13	0.74	2.63	0
2	Participated in Workshops /seminar / conferences	24.84	98.62	76.47	70.18	61.96
3	Presented paper in seminar / conferences	2.55	26.21	38.24	23.68	13.04

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 programs industrial engagement etc.)

The institute extends full support for the professional development of the faculty in many ways e.g.

- The institute encourages and supports faculty for pursuing higher studies (Ph.D.) by granting them study leaves.Institite also motivates faculty by providing project funding to their research work.
- The institute provides financial support for presenting papers in national and international conferences.
- The instituteprovides financial support to organize seminars, workshops and FDP's for enrichment of faculty knowledge.
- The institute deputes faculty members to attend short term refresher courses, seminars and workshops for upgrading their skills.
- The institute subscribes to reputed journals like Science Direct for the reference of all faculties.
- The institute provides support to participate in seminar, workshop and FDP etc.
- Institute having ninteenMoU's with industries and through which the faculties are encouraged to interact with industry and this will help them during their research work.
- Faculties are encouraged for writing text books for SPPU syllabus.

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

Table 2.4.5 Summary of the faculty awards and recognitions

Department	Academic Year	Award	Faculty Name
MBA	2014-15	Certificate of Appreciation for being selected among the top 10 college mentors (HR) E4 – MBA Intercollegiate summer trainee award - 2015	Mrs. Anima Rathod
Computer Engg.	2016-17	NPTEL Certification course on Programming in C++	Mrs.Pradnya Kasture
		NPTELonline Certification Introduction to modern application development	Mrs.Manisha Desai
		NPTELonline Certification in Introduction to modern application development	Mrs.Mrunalinee Patole
		NPTELonline Certification in Introduction to modern application development	Mrs.Vanita Babanne
		NPTELonline Certification in Information security-3	Mrs.Jyoti Raghatwan
		NPTELonline Certification in Programming, data structures and algorithm using python	Ms.Nikhita Nerkar
		NPTELonline Certification in Introduction to modern application development	Mrs.Shafali Gupta
		PG Recognition	Mrs.Pradnya Kasture
	2015-16	CPGCON ACM Best Work in progress Award	Mrs. Vina Lomte
		PG Teacher Recognition	Mrs. Vina Lomte
		PG Teacher Recognition	Mrs.Jyoti Raghatwan
		PG Teacher Recognition	Mrs.KanchanVarpe
		Certificate of Appreciation for bringing outstanding result	Mrs.Vina Lomte

		Certificate of Appreciation for Co-ordinating "GPU Education Center" by NVIDIA	Mrs. Kanchan Varpe
E&TC Engg.	2017-18	NPTEL Elite certification, 24th rank for course Basic Electronics	Mr. Nitin Dhoot
		Best Paper Award 3rd International Conference on Computing , Communication , Control and Animation (ICCUBEA-2017)	Mrs. Snehal Bhosale
	2015-16	PG Teacher Recognition	Mrs.Snehal Bhosale
		PG Teacher Recognition	Mr. Rajesh Shekokar
		PG Teacher Recognition	Mrs. Kalpana Amrutkar
		Coordinator of State level workshop on " Mathematical Modeling & Signal Processing	Mr. Rajesh Shekokar
		Coordinator of State level workshop on " Mathematical Modeling & Signal Processing "	Mrs. Kalpana Amrutkar
		Certificate of Appreciation as Cultural Coordinator	Mrs. Kalpana Amrutkar
		Certificate of Appreciation as Techtronic 2K16 Department Coordinator	Mrs. Nandini Dhole
		Online Exam Observer Appreciation	Mr. Nitin Dhoot
		FE Induction & Online Coordinator Appreciation	Mrs. Varsha Kshirsagar
Mechanical Engg.	2016-17	PG Recognition	Mr. M. L. Thorat
		PG Recognition	Ms. S. U. Ratnaparkhi
	2015-16	Review of the chapters of textbook on Mechatronics	Mr. A. K. Mahindrakar
		Achieving higher placements	Mr. D. G. Joshi
		Techtonic Institute Co-ordinator	Mr. P. S. Desle
		Contributing in organizing Sinhgad Sports Karandak 2k16	Mr. N. V. Babar

		Institute Sports Co-ordinator	Mr. M. S. Swami
		Paper – Apply Demand forecasting and planning in agri food	Dr. S. V. Patil
		Recognition as a post graduate teacher	Mr. N. D. Pagar
	2014-15	Recognition as a post graduate teacher and PhD Recognition	Dr. M. V. Nagarhalli
	2013-14	Recognition as a post graduate teacher	Mrs. S. P. Irwadkar
IT	2017-18	Patent in Research Work Title of the Invention: An Automated	Mr. Sanjeevkumar Angadi
		NPTELonline Certification in "Object Oriented Analysis and	Ms. Yogita Wankhade
		NPTELonline Certification in "Object Oriented Analysis and	Ms. Pratibha Chavan
		NPTELonline Certification in "Programming in C++"	Mrs. Prachi Sorte
		NPTELonline Certification in "Programming in C"	Mr. Suhas Chavan
		IITBombayX: FDP101xFoundation Program in ICT for Education	Mrs. Prajakta Kulkarni
		IITBombayX: FDP201xFoundation Program in ICT for Education	Mrs. Prajakta Kulkarni
		IITBombayX: FDP101xFoundation Program in ICT for Education	Mrs. Shivganga Mujgond
		IITBombayX: FDP201xFoundation Program in ICT for Education	Mrs. Shivganga Mujgond
		IITBombayX: FDP101xFoundation Program in ICT for Education	Mrs. Suvarna Potdukhe
		IITBombayX: FDP201xFoundation Program in ICT for Education	Mrs. Suvarna Potdukhe
		IITBombayX: FDP101xFoundation Program in ICT for Education	Mr. Sanjeevkumar Angadi
		IITBombayX: FDP201xFoundation Program in ICT for Education	Mr. Sanjeevkumar Angadi
		IITBombayX: FDP101xFoundation Program in ICT for Education	Mr. Devanand Meshram
		IITBombayX: FDP201xFoundation Program in ICT for Education	Mr. Devanand Meshram

		Recognition as A Post Graduate Teacher	Ms. Pratibha Chavan
	2016-17	Recognition as A Post Graduate Teacher	Mrs. Snehal Nargundi
		Recognition as A Post Graduate Teacher	Mrs. Suvarna Potdukhe
		Recognition as A Post Graduate Teacher	Mrs. Seema shirke
		Appreciation for Department Sponsorship Coordinator	Ms. Pratibha Chavan
		Appreciation for Department Cultural Coordinator	Ms. Yogita Wankhade
		Appreciation for Institute Team manager (Girls Cricket)	Mrs. Shivganga Mujgond
		Appreciation for Department Techtonic Coordinator	Mr. Sanjeevkumar Angadi
		NPTEL online Certification in "Programming in C++"	Mr. Suhas Chavan
		Certificate of Excellence in Android	Mr. Suhas Chavan
		Certificate of Excellence in IT security	Mr. Suhas Chavan
		Certification in Python Project	Mr. Suhas Chavan
		Certificate in Professional Level – OOPS	Mr. Suhas Chavan
		Certificate in Professional Level – Facebook	Mr. Suhas Chavan
		Certificate in Professional Level – C++	Mr. Suhas Chavan
		iPGCON Reviewer	Mrs. Sweta Kale
		NPTEL online Certification in "Programming in C++"	Mrs. Prajakta Kulkarni
IT	2015-16	Appreciation for Department Placement Coordinator	Ms. Pratibha Chavan
		Appreciation for organizing State level Workshop on Big data &	Mrs. Suvarna Potdukhe
		Appreciation for 100% Feedback for Two Consecutive Years	Mrs. Snehal Nargundi

		Appreciation for Department Techtonic Coordinator	Mr. Sanjeevkumar Angadi
		Appreciation for Department Event Techtonic Coordinator	Mr. Sanjeevkumar Angadi
		Certificate of Excellence in CPP	Mr. Suhas Chavan
		Certificate of Excellence in Java	Mr. Suhas Chavan
		Certificate of Excellence in Java Script	Mr. Suhas Chavan
		Certificate of Excellence in C	Mr. Suhas Chavan
		Guinness World Record in Bharatanatyam	Ms. Yogita Wankhade
		First Merit in Bharatanatyam	Ms. Yogita Wankhade
		Judge & Project Reviewer for Project Competition	Ms. Yogita Wankhade
	2014-15	Recognition as A Post Graduate Teacher	Mrs. Sweta Kale
		Recognition as A Post Graduate Teacher	Mr. D. A. Meshram
CIVIL	2017-18	NPTEL Online Certification	Mr. Rahul Shinde
		NPTEL Online Certification	Ms. Snehal Bobade
		NPTEL Online Certification	Mr. Abhijeet Datye
		NPTEL Online Certification	Mr. Santosh Jadhav
		NPTEL Online Certification	Mr. Sitaram Suryawanshi
		Appreciation for Asst. Program Officer: NSS	Ms. Sonal Deshmukh
		Appreciation for Departmental Sponsorship coordinator	Mr. Manish Khandare
		Appreciation for Institute Table Tennis coordinator	Mr. Rohit Shintre
		Appreciation for Throw ball Girls Team coordinator	Ms. Anjali Deshmukh

		Appreciation for Departmental Techtonic coordinator	Mr. Abhijeet Datye
	2016-17	MPSC Selection for Water Resource Department as a Junior Engineer	Ms. Sonal Deshmukh
		Appreciation for Publishing Manuscript at IJESRT	Mr. Abhaysinha Shelake
		Appreciation for Organising E Tab Workshop	Ms. Priya Bidkar
	2015-16	Appreciation for Guiding the Students of BE Project "Mata Ramai	Mrs. Sarita Khot
		Appreciation for Guiding the Students of BE Project "STATE-OF-	Mr. Sumit Thakur
		MPSC Selection for Water Resource Department as a Assistant Engineer	Ms. Gayatri Gurav

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

Yes,

Institute evaluates teachers by taking inputs from students.

- Evaluation of teachers by the students is done through perfectly confidential students' e-Feedback system in each semester. Analysis of received feedback is done and it is used for improving the quality of teaching-learning-process. Counseling of the teachers is done by senior professors to make necessary corrections.

- Continuous evaluation of contents of teachers' academic diary by academic audit committee.

- It helps teachers to identify and sort out their limitations.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stake holders of the institution especially students and faculty are aware of the evaluation processes?

The Institute is accountable to the stakeholders - students, faculty, parents, alumni and the society. The evaluation processes are brought to the notice of the students and faculty through the followings:

- The Institute makes aware to the admitted students and parent about the evaluation process through the induction program conducted at start of college at institute and department level.

- The Institute notifies the students regarding schedule and structure of internal and SPPU‚s evaluation system through the college notice board.

- At the commencement of the term students are notified about the criteria for evaluation of term work.

  The term work marks are given on different parameters like (i) attendance of student (ii) internal examination performance (iii) continuous assessment and (iv) mock practical oral examination.

- Student's performance is assessed by midterm submission and internal examination. Institute conducts two unit tests and prelim examination.

- All this information is given to the parents through parent-teacher meeting. The letters are sent to the parents after each unit examination and the marks and attendance is conveyed to the parents.

- The evaluation parameters and methodology is finalized in the faculty meeting. Suggestions from the faculty are incorporated in finalizing the policies.

- The suggestions of alumina taken in alumni meeting are also considered while deciding the strategies.

- The policies are revised in every semester in general meeting.

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 institution implements all the evaluation reforms as prescribed by the SPPU. Following are the major evaluation reforms introduced by the University and adopted by institute

SPPU Examination Pattern - SPPU has introduced a credit system 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 laid down by University. The revised examination structure is as follows.

Table 2.5.2 SPPU Evaluation Pattern

Year	Exam by SPPU		Marks	Credits	Exam by SPPU	Marks	Credits
FE	Phase I [25M]	Phase II [25M]	50	**	End semester	50	**
SE	Phase I [25M]	Phase II [25M]	50	**	End semester	50	**
TE	In – semester		30	NA	End semester	70	NA
BE	In - semester		30	NA	End semester	70	NA
ME	In - semester		50	**	End semester	50	**

** Number of credits varies for each subject

- **Appointment of CEO** - As per SPPU directives, the institute has appointed a senior and experienced faculty member as Chief Examination Officer (CEO). The examination committee is structured with the Principal as the chairman assisted by CEO who is the member secretary and senior faculty member one from each department.
- **Computerization** - SPPU has introduced online examination for evaluation of the first and the second year engineering students. The institute conducts online examinations of the SPPU during every semester. The marks of term work, practical/oral examination and those for 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 guide lines of the SPPU.
- **Credit system**-As per the SPPU guidelines credit system has been introduced for the PG Programmes.
  The institute augmented university reforms by conducting mock online examinations, tutorials and mock practical/oral examinations for the students before the university examination.
- **The reforms initiated by the Institute:** Conduction of mock onlineexaminations, tutorials, mid-semester examination and mock practical/oral examinations. Institute also conducts project competitions, AMCAT, ET, QA/LR, quizzes and soft skill development competitions for the students.
- **Research Component:** Research component in the form of writing of a reviewpaper, has been to be added to the STP IV in TE Semester II. In has been decided by the institute to inculcate research culture inevery student. The seminar / mini-project activity of semester II as per university syllabus can be coupled with this activity.

2.5.3How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

University evaluation reforms:
- The CEO and Examination Committee schedules and executes the evaluation process with strict monitoring on regular basis.
- The principal also takes stock of the progress in weekly HOD meetings.
- Internal squad comprising of senior faculty members oversees the smooth conduction of university theory examination.
- CCTV cameras are deployed at select locations to monitor the online examinations.

Internal evaluation reforms:
- Each department has examination cell for smooth conduction of internal tests. The results of each test are declared within a week of the conclusion of the test. The students can see their respective answer books and discuss their queries with concerned staff.

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

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

Formative Evaluation Process:

The goal of formative evaluation of the students is to monitor their learning, to collect continuous feedback, which is used by faculty to improve their teaching and by students to improve their learning. Formative evaluation is carried out considering the following parameters.

- Attendance to theory and practical sessions throughout the semester
- Attendance at STP sessions
- Mock on-line and practical/oral examinations
- Online SPPU Examinations (for FE and SE)
- SPPU In-Semester examination (for TE and BE)
- Tests and assignments
- Participation in industrial visits and Mini projects/projects
- Participation in workshops and seminars
- Participation in organizing technical events
- Participation in curriculum based training and social activities
- Participation in inter-collegiate competitions
- Participation and involvement in Value added programmes
- Overall impression of TG

Summative Evaluation process:

The goal of summative evaluation is to evaluate students' performance outcome at the end of each examination in comparison with some standard benchmark. The institute conducts summative evaluation through result analysis after each internal or external examination.Students' performance is promoted through publicly appreciating and rewarding the good performers.

Examples

Best performing students are given awards for their performance in university examinations, thus the institute is able to sustain academic environment and healthy competition amongst students.In PBL courses students have performed well in theory exams compared to other courses in the semester. Also, students' engagement activities are enhanced in this class.

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

- To monitor the student progress, institute has the continuous internal evaluation system which consists of internal assessment tests (twice in a term), improvement test and evaluation of practical exercises.
- Institute has developed fully transparent internal assessment scheme (refer Fig. 2.3.1 d), which is strictly implemented and practiced by the faculty.
- Continuous assessment is done by departments.
- In continuous assessment process, encouragement is provided for participation in activities like group discussion, seminar, poster presentation etc.
- Institute communicates progress report of their ward to the parents.
- Parents and Teacher-Guardian's meet is organized twice in a year.
- The institute analyses program-wise performance of students.

Following figures shows programme wise performance of the students.
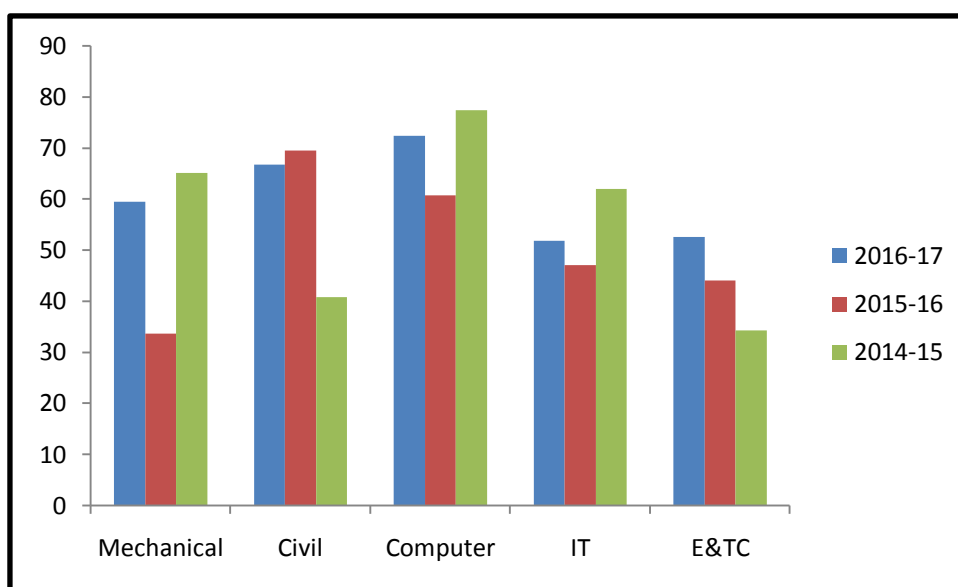
Figure 2.5.5 a. Passing percentage of BE students
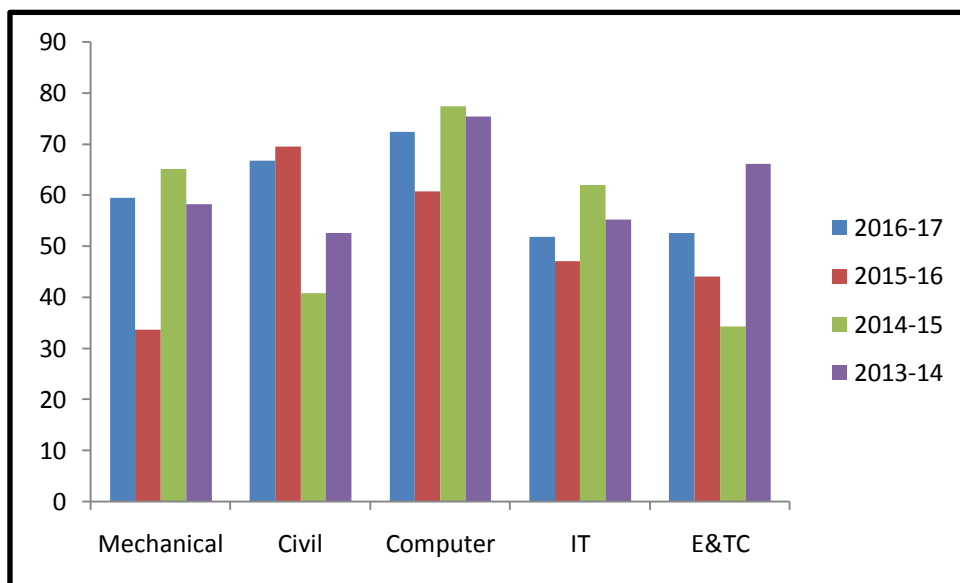
Fig. 2.5.5 b. Passing percentages of TE students
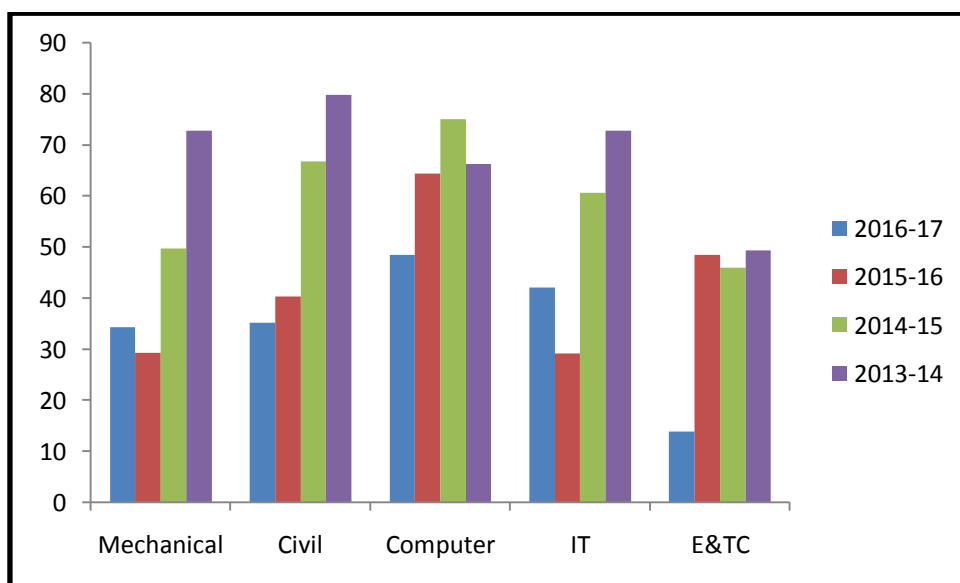
Fig. 2.5.5 c. Passing percentages of SE students
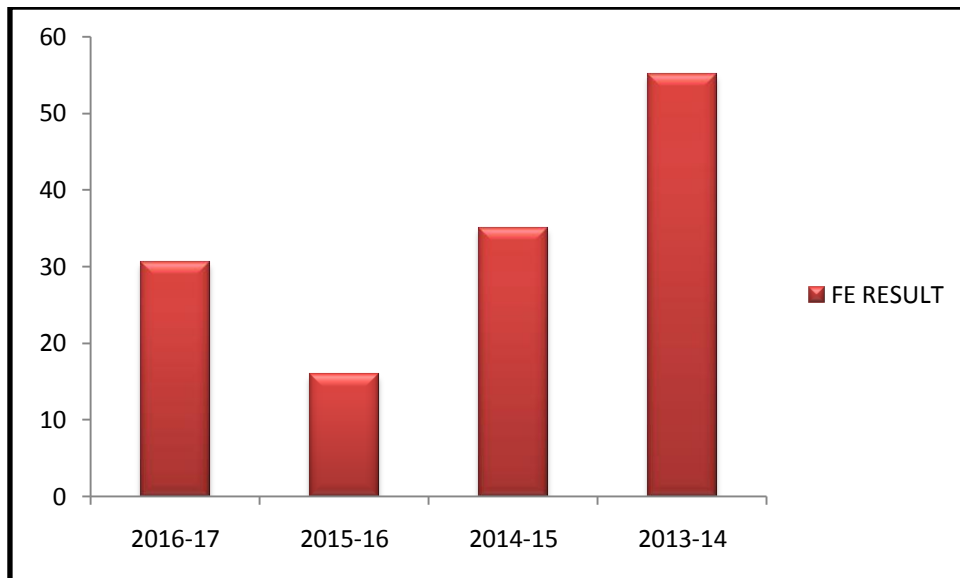
Fig. 2.5.5 d. Passing percentages of FE students
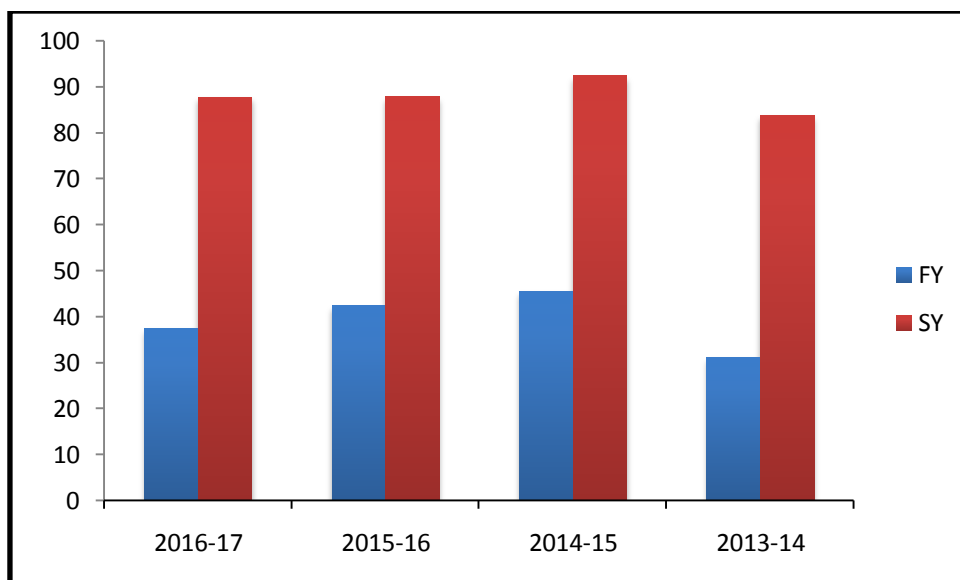
Fig. 2.5.5 e. Passing percentages of MBA students
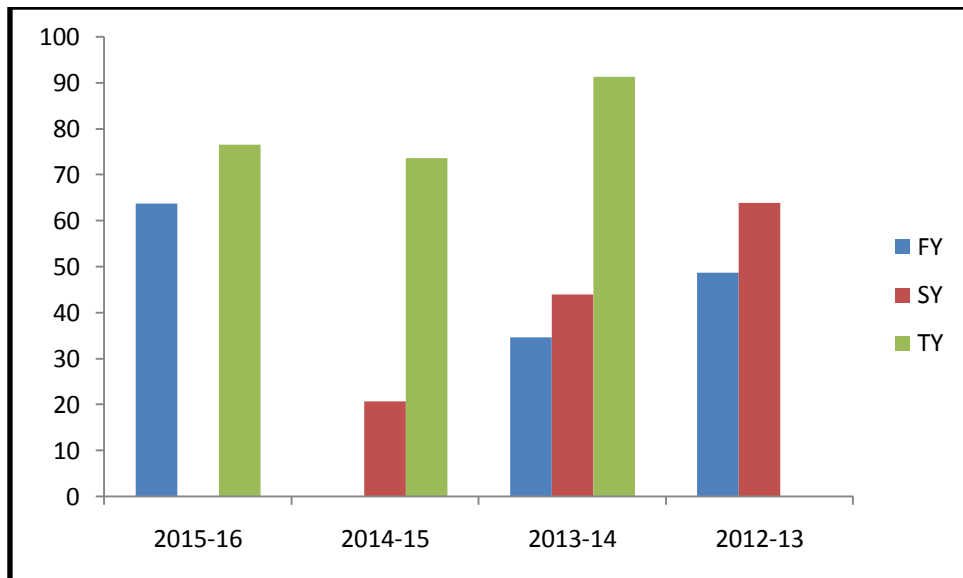
Fig. 2.5.5 f. Passing percentages of MCA students

Above figures 2.5.5 a. to 2.5.5 d.shows result analysis of BE, TE, SE, FE, MBA and MCA students of each branch for last four years. Fig2.5.5 a. shows the stable results for B.E. classes. Figure 2.5.5 b., 2.5.5 c. and 2.5.5 d) indicates percentage of results in a decreasing order.

Decrease in F.E. result can be attributed to change in syllabus and exam pattern [Credit system]

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

Graduate attributes specified by the institute:
- **Engineering Knowledge:**
  Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- **Problem Analysis:**
  Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- **Design/Development of Solutions:**
  Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- **Conduct Experiments**:
  Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.

- **Modern Tool Usage:**
  Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an under- standing of the limitations.
- **The Engineer and Society:**
  Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice
- **Environment and Sustainability:**
  Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- **Ethics:**
  Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- **Individual and Team Work:**
  Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- **Communication:**
  Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions
- **Life-long Learning:**
  To recognize the need for and ability to engage in life-long learning
- **Project Management and Finance**:
  Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader of a team to manage projects and in multidisciplinary environments.

Attainment of Graduate attributes the students

Institute does not explicitly assess all the graduate attributes. However efforts have been made to provide ample opportunities to learn and acquire skills through various activities. Following table provides a mapping of graduate attributes and activities conducted by the institute. Also, assessment pattern and evaluating agency are noted in the table.

Table 2.5.6 Mapping of graduate attributes and activities

Graduate Attributes	Activity	Assessment	Evaluators
Engineering Knowledge	Lectures and talks, STP- III and IV	Tests , Viva voce	Internal and SPPU
Problem Analysis	Industrial and in-house projects	Q and A, Presentation	Internal and External
Design/Development of Solutions	Design and Model competitions Software development	Q and A, Presentation	External

	competitions		
Conduct Experiments	Lab experiments as per curriculum	Q and A	Internal
Modern Tool Usage	VAP, STP- V	Q and A, Presentation Project and Report	External
The Engineer and Society	Industrial and in-house projects, seminar and conference	Q and A, Presentation Project and Report	Internal and External
Environment and Sustainability	Awareness programmes	Poster making	Internal
Communication	Projects,Paper presentation, STP- I and II	Presentation and report writing	Internal and External
Life-long Learning	Lab work and Projects, competitions	Presentation	-
Project Management	Projects, Presentation and report writing	Evidence-based	Internal and External

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

(A) Redressal of grievances at institute level:
Level 1 - Departmental Level:
The continuous evaluation of students is carried out by faculty in terms of theory lectures, labs, assignments etc. The term work are given based on defined strategies and displayed on notice board. Query if any is discussed with faculty and head of department.

Level 2 – College 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. If students are facing any problems, they are solved by Senior Supervisor in coordination with Chief Examination Officer (CEO) appointed by the University. The grievances during the conduction of online/theory examinations are considered and discussed in consultation with the Principal and if necessary forwarded to the SPPU by examination section.

(B) Redressal of grievances at University level:
Examination online form filling, exam seats allotments, results, photocopy, revaluations etc. are coordinated by office superintendent to University. The result queries, printing mistakes of mark sheets, corrections if any are handled at University examination section after forwarding such quires through the college examination section. Any queries of students during online examinations are communicated to the SPPU immediately and get clarified to satisfy the student who isappearing for online examinations. The same policy is also adopted for SPPU theory examination. The queries related with errors in mark sheets, evaluation, photocopy are totally handled by SPPU in which the role of institute is to take the follow – up with SPPU till the student satisfies.

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?

The Institute has well defined learning outcomes. The vision and mission of the institution emphasizes on promoting value education through motivated trained faculty to prepare the students to accept the challenges of globalization.

The program/learning outcomes are:

a. Graduates will exhibit knowledge of basic engineering and sciences, design engineering, telecommunication and electronics sciences.
b. Graduates will exhibit ability to identify, formulate, solve and implement solutions for engineering, managerial and societal problems.
c. Graduates will exhibit to design and conduct experiments, analyze and interpret data through simulated industrial environment.
d. Graduates will exhibit ability to design products, processes and systems to meet the economic, environment, social, ethical and technological norms for sustenance.
e. Graduates will exhibit ability to comprehend and solve multidisciplinary engineering problems through systematic approach.
f. Graduates will familiarize with modern engineering methods and analysis using software and state of art equipment to analyze problems.
g. Graduates will demonstrate knowledge of values and professional ethics in their activities.
h. Graduates will be effective in verbal and non verbal communication.
i. Graduates will show the ability to appreciate contemporary issues and develop solution for societal betterment at micro and macro levels.
j. Graduates will develop an attitude of continuous learning.
k. Graduates will develop confidence to face challenges in their career and ability to do research.

Students and staff are made aware about the learning outcomes by following ways:
1. The vision and mission statements are displayed on the college website and at various key positions in the college building.
2. Programme Educational Objectives (PEO), Programme outcomes (PO) and course outcomes (CO) have been defined by every department.
Programme Educational Objectives (PEO) and Programme outcomes (PO) are printed in journals and course outcomes (CO) are discussed by faculty in the classrooms.
3. Programme Educational Objectives (PEO), Programme Outcomes (PO) are published on the college website.

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

- Monitoring student's performance and progress thereof is the heart of the teaching-learning process in the institute. Means used for this are progressive attendance, continuous lab assessment, 2 unit tests, 2 mock online tests, and prelim exams, in-sem exams, and end sem examinations.

- The institute regularly communicates the student's performance in above parameters to students and their parents.
- Progressive performance is assessed on anannual basis. Any downward trends are noted, and corrective actions are initiated to rectify the problems.
- The result analysis is for last four years is discussed in criteria 2.5.5
- In parents meet, the performance of students is discussed with their parents.

2.6.3. How are the Teaching, Learning and Assessment Strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

Teaching Strategies:
- Every department in the institute prepares an academic calendar in line with the institute and university academic calendar.
- The faculty prepares their lesson plans with details such as course objectives, course outcomes, unit objectives and unit outcomes along with well thought out time schedule.
- Lesson plans of the faculty are reviewed by HOD at the beginning of the semester.
- In addition to required number of classroom and laboratory slots, the timetables also provide room for student training on specialized subjects like soft skills, communication skill, technology applications and personal interview skills (STP I through V).
- Results of formative and summative assessments are rigorously analyzed, and necessary corrective actions are taken. The academic calendar of the institute specifies the schedule for tests and related result analysis immediately following the exam.
- Trailing students are identified periodically, and remedial support is extended to them so as to enable them to catch up with the class. Help from parents is also sought where required in such cases.
- All the teaching materials is made available available to students either by mail, Xerox copies of subject notes shared by faculty.

Learning Strategies:
- Classes are made interactive through asking aquestion and interesting presentations.
- Projects are promoted among all the students from second to final year so that they develop analytical habits.
- Industrial visits invariably conducted every year help students gain field exposure

Assessment Strategies: Following strategies are employed for assessment

Direct Assessment
- Internal and external examinations in theory and laboratory.
- Online examinations.
- Seminars, tutorials, and assignments.

Indirect Assessment
- Employer Feedback
- Alumni Feedback

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?

- Besides providing appropriate training, theinstitute conducts employability tests like AMCAT etc. which form the entry prerequisite for many high profile companies.
- EDC promotes entrepreneurship skills among students through regularly arranged activities and competitions.
- Industry sponsored projects help students get direct industry exposure by virtue of which their employability enhances significantly.
- The institute motivates and sponsors students to participate in various research projects, project competitions such as ROBOCON,SAE INDIA BAJA, and Eco-CART, etc.
- The institute organizes various technical competitions under TECHTONIC.
- Students are encouraged to participate in university-level competitions like AVISHKAR and other National and State level project competitions.
- The institute has signed MoUs with esteemed companies.
- T&P cell conducts expert lectures, pre-placement talks, and guidance for higher studies.
- Organization of various social activities by institute like blood donation camp, celebrating festivals with anorphan, awareness through special NSS camps, river cleaning activity.
- Each department has developed multiple activities in line with the PEOs. All these activities are termed as content beyond syllabi. Curriculum Gaps in thesyllabus are investigated and mentioned in the table as known gap. The known gap is filled with the additional content and its reference activity.

Table 2.6.4Summary of the gaps and additional content/activities

Known gap	Additional Content/ activities	Institute Activity
Interaction amongst stakeholders	Students are encouraged to visit industries. Expert talks are arranged from industry people on specific and interdisciplinary subjects spreading across the curriculum.	Industrial training and Visits, Invited Talks.
Skill development.	Group discussions, LCD presentations are added in regular timetable to improve presentation and communication skills of the students.	Group discussions and, LCD presentations
	Professional clubs (SAE, IETE) and student bodies (MESA, ACE, CESA, SAINT and eWORTs), are regularly conducting various activities to improve leadership and managerial qualities with exposure to latest technological trends.	Professional clubs and student associations' activities
	Special need-based Student Training Programmes (STP) are designed for the skill development of the students. These STPs are designed in collaboration with the industry and academia.	STP-I to IV

Students centered learning practices.	RMDSSOE has begun implementing PBL (Project Based Learning) and Activity Based Learning. Here, concepts of lab innovations are incorporated into the curriculum to involve students in self-learning (learning by doing) practices and to implement their ideas in actual practice. Students are motivated for learning since they work on new ideas generated by them or as directed by a faculty. They were facilitated by the institute by funding good lab innovations and exhibition and design contests.	Lab innovations Exhibition and design contests Industrial projects. ROBOCON, Eco-Kart and BAJA.
	Institute promotes the students to work with industry to carry out projects. As a result, many students have done industry sponsored projects. Also, students have participated in various Nationally recognized events.	Industry projects
Exposure to Modern tools	Since 2014, theinstitute is conducting various Value addition programmes on various Modern Tools and Programming Languages. Also, in technical events students gets practice to use modern tools.	Value Addition Programs (VAP), Digital Hackathon, Techtonic Event
Students interaction sessions	In addition to professional and individual counseling are added to a regular timetable in which faculty and students interact with each other on various topics prevailing during that period.	Teacher Guardian meetings

- The additional contents as necessary depending upon industrial need are being provided after institute hours in terms of Value Addition Programs (administered by the department and student forum).

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

Every programme / department collects the feedback from all the stakeholders pertaining to students' performance and outcomes. These feedbacks are analyzed quantitatively as well as qualitatively. The gaps between the curriculum and technological need are found out.
- Faculty feedback is taken in every semester from students.
- Exit students feedback is taken from the outgoing students every year.
- The feedback from the alumni is taken during the Alumni meet.

Corrective Actions:
- Special attention is paid to lateral entry students.
- Remedial classes are conducted for subjects where percentage of failure is more
- Mock orals are conducted
- Students with difficulties in learning are counseled by respective subject teachers and teacher guardian

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

The institution has clearly defined a mechanism to monitor the learning outcomes.

- Based on the performance of the students in various technical and other competitions.The learning outcomes are analyzed by the quality and quantity of placement in Tier-1, Tier-2 companies.
- Based on the participation and achievements of the student in competitive exams like GATE, GRE, TOFEL, etc.
- The quality of the undertaken project, internship performance and participation in competitions, conferences/ workshop/ seminars referee's recordings on group discussions, enable the institution to monitor and ensure the achievement of learning outcomes.
- Study of history card of every student which presents the initial level of learning and the exit feedback given by students along with the marks, ranks and employment status, as well as internship certificates, indicates the achievement of learning outcomes.

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

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

- In line with the course objectives and outcomes prescribed by the University every course teacher designs lesson plan and lecture plan in conformation with the course objectives and adopts innovative teaching methods to achieve the same.
- Students participate in different academic activities viz. tutorial, mini projects, asolution of numerical problems, quiz, seminar, oral, etc. These activities help to assess the proficiency of students in theapplication of mathematical and engineering concepts, effective communication skills. This process helps in achievement of learning outcomes.
- The teacher monitors the laboratory skill developed by students during practical sessions.

2.6.8 Any other relevant information regarding Teaching-Learning and Evaluation, which the institute would like to include.

- To make a student-centric learning, the institution adopts the following best practices in respect of teaching, learning and evaluation:
- Well-designed academic calendar
- Appointment of Teacher-Guardians for continuous monitoring and assessment
- 5-Phase Student Training Program from Semester III through Semester VII, special coaching for advanced learners,remedial classes for slow learners.
- Faculty Development Programs,Seminars, workshops, and industrial visits.
- Expert lectures by speakers from industry and academia.

CRITERIA III: RESEARCH, CONSULTANCY, AND EXTENSION

3.1 Promotion of Research

Institute is bridging the gap among the universities, industries, and research, promoting various agencies developing culture of creating and sharing knowledge. Students & faculties are encouraged and supported for undertaking various research activities, the result of which institute has facilitated number of research papers, in the areas of various Engineering disciplines. The studies facilitated by institute are presented at National and International level forums/conferences and published in scholarly journals of international repute. The institute promotes development of the aptitude for research among faculty and students by providing resources and facilities to learn new technologies.
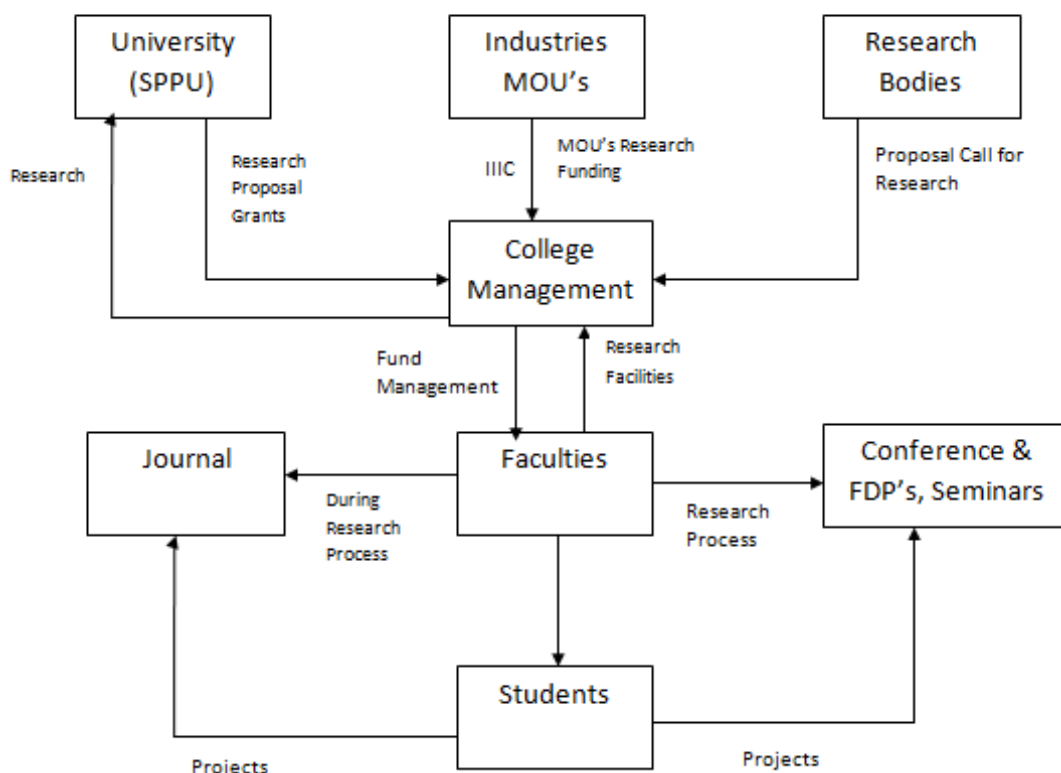
Figure 3.1 Research Promotion

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

No, however the institute has collaborative research association with Center for Communicaion, Media & Information Technologies (CMI), Aalborg University, Copenhagen, Denmark. The institute has signed memorandum of understanding (MOU's) for R&D projects with various industries. To promote the research, Institute has set up research cell. Computer engineering department has procured Award of GPU Education Center with donation of NVIDIA 3 GPU Processors by NVIDIA Singapore PTE. Ltd. students and staff can take advantage of this facility for their

research work. Institute runs PG programmes affiliated to SPPU with various specialization aims to promote research.

The details are as follows.

Figure 3.1.1 PG Programmes

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 R&D cell to monitor and address the issues of research. The composition of R&D cell is given in Table 3.1.2. This committee oversees the smooth and efficient coordination of research and development activities in the institute, thus fostering overall growth.

Table 3.1.2 Institute R & D Cell

Sr. No.	Name	Designation	Position
1	Dr. C. B. Bangal	Director/Principal	Chairman
2	Mr. Nitin D. Pagar	Coordinator, R&D	Coordinator, R&D
3	Dr. John Peter	Dean, MBA	Member
4	Dr. Madhva Nagarhalli	Professor & Head, Mech. Engg.	Member
5	Dr. S. S. Deo	Professor	Member

6	Dr. Sheetal Ghorpade	Associate Professor	Member
7	Dr. Sunil Jagtap	HOD, First Year	Member
8	Mrs. Snehal A. Bhosale	HOD, E&TC Engineering	Member
9	Ms. Vina M. Lomte	HOD, Computer Engineering	Member
10	Mrs. Sweta R. Kale	HOD,Information Technology	Member
11	Mr. Rahul D. Shinde	HOD, Civil Engineering	Member
12	Dr. V.M. Rohokale	Assoc. professor,SITS,Narhe	External RC Member
13	Dr. P.N. Mahalle	Professor, SKNCOE, Vadgaon	External RC Member
14	Dr. S.S. Shastri	Professor, SCOE,Vadgaon	External RC Member
15	Dr. Ajit Bhosale	Assoc.professor,Commins COEW, Pune	External RC Member
16	Mr. Uday Cherekar	Shree Systems Pvt. Ltd., Pune	External RC Member

Aims and Objectives of Research and Development Cell:

- To create zeal amongst students and faculty members towards research and innovation.
- To create centers of Excellence in niche areas of research.
- To motivate the faculty members of the group for R&D activities in the area of their specialization.
- To encourage staff members and students to publish technical papers for publishing in National and reputed International Conferences/Journals.
- To assist for applying and getting funds for conducting Seminar/Workshop/FDP from various available funding agencies.
- To interact with industry, government, professions and the wider community on all research matters promote faculty research activities to external stakeholders.
- To work with various departments to establish and develop faculty research priorities on interdisciplinary areas.
- To work closely with the industrial needs that eventually will result in new or improved products, processes, systems or services that can increase the company's productivity.
- To coordinate faculty level workshops and staff development activities on research-related issues.
- To maintain effective links with government departments, authorities, business, and commerce and industry organizations relevant to the college research activities.

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

The institute has formulated following policies for faculty and students:

- Availability of Infrastructure & resources.
- Time Flexibility as and when required.

- Special leaves are granted.
- Encouraging students to participate in different workshops, seminars, conferences, and technical competitions to promote research culture.
- Organizing visits to Industry and R & D centers for faculty and students.
- Motivating faculty for higher qualification (Ph.D.).
- Reimbursement of the fees paid for FDP, Workshop & Seminar etc.

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

All departments nurture scientific temper and research culture among students through several measures like:

- **Mini projects**: Students are encouraged and guided to implement innovative ideas through Mini Projects. It helps to develop their ability to work independently.

- **Interactions with industry experts:** Expert lectures are arranged to create awareness about the current trends and technologies.

- **Industrial visits**: Industrial visits are arranged for students to know about an insight regarding internal working of companies.

- **Industrial internship:** During the internship, students understand industrial work culture and receive hands-on experience.

- **Technical events:** Students are encouraged to organize technical events like Techtonic in the institute and participate in various technical events organized at different places.

- **Projects:** Students identify the problem in the industry or society and try to come up with the solution in the form of project. During this process, they also publish their work in conferences/ journals. This helps to develop research attitude & culture in the students.

- **STP-IV:** In this module students are guided to write review papers.

- Lab experiments and design experiments provide an opportunity to develop scientific temper among students.

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.)

- All departments of institute have prioritized research areas on the basis of expertise of the faculty and other related resources available with the institute through which various research activities like seminar, workshop etc. are held in the institute.

- Faculty attends and presents various technical papers in conferences and journals regularly.

- Faculty and students are also associated with industry sponsored projects.

- Faculty guides the UG and PG students for Projects, Seminars, Technical papers & their research work.

- The details of faculty involvement in active research are shown in Table 3.1.5 (a). The table includes data related to faculty guiding UG and PG students under different research areas.

Table 3.1.5 (a) Faculty Guiding UG and PG Students

Sr. No.	Department	No. of Students Guided	
		UG	PG
1	Mechanical Engineering	556	76
2	Civil Engineering	313	47
3	Computer Engineering	271	127
4	Information Technology	185	21
5	E&TC Engineering	76	71
6	MBA	NA	521
7	MCA	NA	559

- The details of the faculty engagement in individual research activity while pursuing their Ph.D. from various universities are as shown in table 3.1.5(b)

Table 3.1.5 (b) Faculty Engagement in Individual Research Activity

Sr. No.	Department Name	Name of Faculty	Area of Specialization	Name of University
1	First Year	Mrs Chayya K. Lande	Fluid Dynamics	Symbiosis International University, Pune
2	Mechanical Engineering	Mr. Sumit V. Dubal	Manufacturing	Bharati Vidyapeeth University
		Mr. N. D. Pagar	Vibration and Stress Analysis	Savitribai Phule Pune University, Pune
		Dr.S.V.Patil	Manufacturing	National Institute of Industrial Engineering, Mumbai.
		Mr. D. G. Joshi	Welding Technology	Savitribai Phule Pune University, Pune
		Mr. R. S. Varier	Manufacturing Engineering	Dr. Babasaheb Ambedkar Technological University, Lonere-Raigad
		Mr. D. H. Karad	Yet to be finalized	College of Engineering, Pune
		Mr. M. L. Thorat	Yet to be finalized	Savitribai Phule Pune University, Pune
		Mrs. S. P. Irwadkar	Internal Combustion Engine	College of Engineering, Pune
3	Civil Engineering	Mr. Anil Shirgire	Concrete	JJTU, RAJASTHAN
		Mr. Chetan Mane	Environment	JJTU, RAJASTHAN
4	Computer Engineering	Ms. Vina Lomte	Image Processing	Swami Ramanand Teerth Marathwada

Sr	Department	Name	Area	University
				University, Nanded
		Mrs. Mohini Arote	Data Mining	B.S.A. University, Chennai
		Mr. Parth Sagar	Software Engineering	KL University, Andhra Pradesh
5	Information Technology	Mr. Sanjeevkumar Angadi	Computer Vision & Image Processing	Visvesvaraya Technological University, Belgaum
6	E&TC Engineering	Ms. Saylee S. Begampure	Dynamic texture analysis using artificial intelligence	MIT ,World Peace University ,Pune
		Mrs. Snehal Bhosale	Wireless Sensor Network, Internet of Things	Savitribai Phule Pune University, Pune
		Mr. Rajesh Shekokar	Signal Processing	S.G.B. Amravati University
		Mr. Anant More	Wireless Communication	KL University, Andhra Pradesh
7	MBA	Mr. R. K. Singh	Insurance Distribution Channels	Savitribai Phule Pune University, Pune
		Mr. Ganesh Datere	Customer Satisfaction	North Maharastra University, Jalgaon
		Mr. Pravin Bodade	Customer Experience	North Maharastra University, Jalgaon
		Mr. Amar P Narkhede	Consumer Behavior	North Maharastra University, Jalgaon
		Mr. Prashant T. Patil	Venture Capital	North Maharastra University, Jalgaon
		Ms. Priyanka Bachhav	Communication Skills	Savitribai Phule Pune University, Pune
		Ms. Anima Rathod	First Generation Entrepreneurs	Savitribai Phule Pune University, Pune
8	MCA	Ms. Mandeep Kaur	High Performance Computing	Savitribai Phule Pune University, Pune
		Mr. Vishal Kumar Sahu	Cloud Computing	Savitribai Phule Pune University, Pune

- The details of the faculty engagement in research activity through industry sponsored projects are as shown in table 3.1.5(c)

Table 3.1.5 (c) Faculty Engagement in research activity through industry sponsored projects

Sr.No	Project Name	Internal Guide	Company Name
Department of Mechanical Engineering			
1	Design and Devlopment of Intelligent Swarm Robotics for Dockyard/Warehouse Application	Mr.Y.L.Maske	M.D.Engineering Works, Narhe, Pune
2	Design and Devlopment of Power-	Mr.R.R.Ligade	Assure

	Booster with the help of Turbo Blower		Solutions,Chakan, Pune
3	Power Generation Using Agro-waste	Mr.S.S.Khandagale	Assure Solutions,Chakan, Pune
4	CFD Analysis of Centrifugal Pump Impeller for Performance Enhancement	Mr. H.H.Kadam	KSB Pumps Ltd, Pune
5	Design and Manufacturing of System for Air-conditioning by using Compressed Air from Compressor Suspension Unit	Mr.Y.D.Sonawane	M.D.Engineering Works, Narhe, Pune
6	Thermal Design of Waste Heat Recovery Unit for Cement Industry	Mr.Y.D.Sonawane	Thermax Ltd, chinchwad, Pune
7	Design and Manufacturing of an Automatic Scrap removal system for CNC Machine	Mr.P.S.Desle	S.G.Engineers Works, Vadgaon, Pune
8	Design and Development of Trolley Axle for Cost Minimization	Mrs. S.U.Ratnaparkhi	Balaji Industries, Wagoli, Pune
9	Design and Development of Movable Traffic Divider (Prototype)	Mrs. S.U.Ratnaparkhi	Appolo Industries,Narhe, Pune
10	Design of Oil Pump Endurance Test Unit	Mrs. J.D.Rane	Shree Systems, Pune
11	Manufacturing of Multi Loading Press Tool for Muffler Assembly of HONDA Activa 4G	Mrs. R.J.Hire	Badve Engineering Limited, Chakan, Pune
12	Manually Operated Bio-Mixer for Fertilizer	Mr.S.K.Kalukhe	BKWT Opclo Engineering Solutions, Pune
13	Design and Fabrication of Material handling Robot Using X-Y Gantry Mechanism	Mr.Y.L.Maske	S.V. Robotics and Automation India Pvt.Ltd, Pune
14	Design of Special Purpose Machine for Manufacturing of Spring Clip	Mr.D.P.Sonawane	JKC Automobile, Thergaon, Pune
15	Design and Analysis of Drive Assembly for Pump Test Bench	Mr.P.S.Desle	Shree Systems, Pune
16	Design and development of fog disporsion machine for air port	Mr. Nitin D.Pagar	Indian Institute of Tropical Meteorology, Pashan, Pune
17	Design analysis and fabrication electrostatic field mill	Mr. Sushil dhamde	Indian Institute of Tropical Meteorology, Pashan, Pune
18	Design and development of workstation table by considering ergonomics aspect	Mr. Sumit V. Dubal	Kailash Vahan Udyog Ltd, Alandi, Pune
19	Development in atmospheric	Mr. M. H. Borate	Thermax Ltd,

	fluidised bed combustion boiler		chinchwad, Pune
20	Design and development of scrap metal cube machine	Mr. Rahul Deshmukh	Super Tech Systems Pvt, Ltd, Naded Phata, Pune
21	Design and development of waste heat recovery from domestic refrigerator	Mr. Ravikiran Chavan	Edumech Solutions Narhe, Pune
22	Optimization of lathe for small scale industries	Mr. Rahul R. Pawar	Absolute India Mechatronics Pvt Ltd, Warje, Pune
23	Pitch error measuring device for ball screws	Mr.R.R.Ligade	Inland Machine Tools Pvt.Ltd, Pune
24	Design of system for loading & unloading of workpeice from CNC lathe	Mr.R.R.Ligade	Exoskeleton, Near PARI Robotics, Narhe, Pune
25	Waste Plastic to fuel conversion	Mr.D.H.Karad	Nespro Renewable Energy Solutions, Pune
26	Noise Reduction in Hoisting gear box	Mr.R.S.Varier	Shree Cranefab Pvt Ltd, pune
27	Design & Manufacturing of Fixture for deep hole drilling machine	Mr.R.S.Varier	Sandvik Asia Pvt Ltd, Pune
28	Design of Mechanically actuated diaphragm type dosing pump.	Mrs.S.U.Ratnaparkhi	BKWT OPCLO Engg. Solutions, Dhayari, Pune
29	Design of canister missile launching tube	Mrs.S.U.Ratnaparkhi	DRDO,Pune
30	Design An Efficacious safety system based on structural analysis of works platform	Mr.M.L.Thorat	Universal Construction Machinery Ltd, Pune
31	Design analysis & manufacturing of a 2 Ton broaching machine base	Mr.M.L.Thorat	Suntech Landriani Pvt. Ltd., Pune
32	Design & Manufacturing of TOD for cylindrical block	Mr.S.S.Gudhate	Cummins Power Systems, Pune
33	Design of conveyor system for transport of packaging materials	Mr.S.S.Gudhate	Prime technologies Pvt. Ltd., Pune
34	To design and manufacture drilling unit using servo motor quill feed and air motor.	Mr.A.K.Mahindrakar	Patson Machines Pvt.Ltd., Shivane, Pune
35	Design of 4 or 5 spindle nut runner system	Mr.N.D.Pagar	Atlas Copco India Ltd, Pune
36	Design and manufacturing of leakage testing machine (SPM)for filter oils	Mr.D.G.Joshi	Epsilon Technologies, Kothrud, Pune
37	Redesign of Plant Layout for furniture Manufacturing Industry.	Mr.R.S.Varier	Rawat Brothers Furniture Pvt.Ltd., Kalewadi, Pune
38	Development of Experimental Setup of Fumigation System Using Pulse	Mrs.S.A.More	Climber Engineers, Katraj, Pune

	Jet Engine		
39	Value Stream Mapping on Cylindrical Cell	Mr.R.S.Varier	Kirloskar Oil Engine Ltd, Pune
40	Design & Up Manufacturing of Plastic Fuel Tank Test Facility	Mr.S.T.Jagdale	ARAI,Kothrud, Pune
41	Design & Development of Multi Spindle Adjustable Drill Head	Mr.R.S.Varier	Patson Machines Pvt.Ltd.Shivane, Pune
42	Design & Development of Testing Machine for Gear Box	Mr.D.P.Jadhav	Shree Systems, Sinhgad Road, Pune
43	Design & Development of Piercing Die for Angle Plate	Mr. R.R.Ligade	Earthtech engineers, Talawade, Pune
44	Low Temperature Air Generation from Vehicle Suspension System	Ms.S.U.Ratnaparkhi	Shiv Sadhana Industry Inc. Ltd, Katraj, Pune
45	MEMS Based Safety & Arming Mechanism	Mr.S.R.Wanjari	Defence R&D Organisation (DRDO), Pashan, Pune
46	Design & Manufacturing of Pit-Less Vertical Broaching Machine	Mrs.S.A.More	Suntech Landriani, Pirangut, Pune
47	Process Design & Simulation of Forged Kick	Mr.D.G.Joshi	Poona Forge Pvt.Ltd, Bhosari, Pune
48	Effect of Dimentional Tolerances on Parameters of Ogive Shaped Casing	Mr.P.N.Deshmukh	Defence R&D Organisation (DRDO), Pashan, Pune
49	Design & Development of Reciprocating Brush for Blister Packing Machine	Mr.P.S.Desle	ACG Pampac Machines Pvt.Ltd, Maval, Pune
50	Design & Manufacturing of Drill Jig for CNG Valve Body	Mr.D.G.Joshi	Vanaz Engineers Ltd, Paud Road, Pune
51	Silencer Body Rolling - A SPM	Mr.P.S.Desle	Dynarc Systems Pvt.Ltd, Shivane, Pune
52	Liquid Sachet Packaging Machine	Mr.R.S.Varier	Bharat Industries, Haweli, Pune
53	Minimisation of Rejections of Brake lever Casting	Mr.Y.L.Maske	Kallani Autocast Pvt.Ltd, Khed, Pune
54	Design , Analysis & Manufacturing of Rubber Block Fail Safe Coupling	Mr.M.H.Borate	Poona Couplings Pvt. Ltd, Erandwane, Pune
55	Design of Roll Bending Machine	Mr.P.S.Desle	Bhagyajyoti Engineering&Insulation Contractors, Warje, Pune
56	Design of Automated Sand	Mr.Sushil Dhamade	Pragati Enterprises,

	Handling & Mixing System		Dhayari, Pune
57	Fixture for testing of Bearing Rings Eddy Current Test Probe	Mr.Sushil Dhamade	Anup NDT Pvt.Ltd, Kothrud, Pune
58	Design & Development of Machining Fixture for Horizontal Shaft Impactor Rotor	Dr.S.V.Patil	Sandvik Asia Pvt Ltd, Dapodi, Pune
59	Reduction of Producton Cycle time for Muffler	Dr.S.V.Patil	Tenneco Automotive India Pvt.Ltd, Khed, Pune
60	Automatic Ultrasonic Cleaning Machine	Mr.A.K.Mahindrakar	SMT Systems LLP, Bhosari, Pune
61	Automation & Upgradation of Metalic Fuel Tank Test Facility	Mr.S.T.Jagdale	ARAI, Kothrud, Pune
62	Design Upgradation of Compressor Cylinder Assembly for Higher Pressure Rating	Dr.S.V.Patil	Krloskar Pneumatic Company Ltd., Hadapsar, Pune
Department of Civil Engineering			
63	Mata Ramai Irrigation Value Addition Program	Mrs. Sarita khot	Nirmiti consultantancy, Pune
64	No fines Concrete	Mrs. Sarita khot	Trupati Constructions, Pune
Department of Computer Engineering			
65	High Performance Packet Capturing Using Data Plane Development Kit	Ms. Kanchan Varpe	Calsoft Private Limited, Bavdhan
66	Energy-Efficient Inteliigent Street Lightning System	Ms. Vina M. Lomte	ESEM Infotech Pvt. Ltd., Pune
67	Secure data deduplication over cloud storage with dynamic ownership management	Ms. Kanchan Varpe	RNL technologies pvt. ltd.
68	A Health Decision Support System for Disease Diagnosis	Mr. Parth Sagar	Tribbianis Software Solution Pvt.Ltd.
69	Email classification using naive bayes	Ms. Kanchan Varpe	TechnoPlus ,Pune
70	person identification using keystroke dynamics	Ms. Vina M. Lomte	kasnet technology ,narhe
71	Scalable Recommendation With Social Contextual Information	Ms. Jyoti Raghatvan	Web-Hub Technologies
72	A novel approach to design smart home in an energy efficient way using sleep interval of sensors based on IOT.	Mr. Parth Sagar	Virtue Infotek, Pune
73	Automated Customer Query Resolver Using Data Mining	Mr. Parth Sagar	Lexicon Networks India Pvt Ltd., Pune
74	Brain Tumour Detection using Image Processing	Ms. Jyoti Raghatvan	Opulent Infotech., Pune
75	Online Recommendation of Electronic Goods	Ms. Vina M. Lomte	Sponsored by Syneotek
76	Inter-Vehical Communication using	Ms. Kanchan Varpe	Sponsord by Iternity

	Li-Fi		solution Pvt. Ltd.
77	An Efficient Anticollusion Data Sharing Mechanism for Data Confidentiality for Dynamic Groups	Ms. Vina M. Lomte	SSP TECHNOLOGY,PUNE
78	Database Security For E-Commerce Websites	Ms. Vina M. Lomte	epoch360
79	Trajectory Based Unusual Human Movement Identification for High Security Surveillance Zones	Ms. Kanchan Varpe	TechnoPlus , Pune
80	Optimal Coding and Allocation for Perfect Secrecy in Multiple Clouds	Ms. P.V.Kasture	Speed TechServe Ptv.Ltd.
81	IFC IOT Integrated fog cloud IOT	Ms. Vina M. Lomte	Teamspring Engineering solution LLP,Pune
82	Reducing fragmentation for inline duplication backup storage via Exploiting history and caching knowledge	Ms. P.V.Kasture	Teamspring Engineering solution LLP,Pune
83	Automatic soil nutrient detection and fertiliser dispensary system	Ms. Vina M. Lomte	Teamspring Engineering solution LLP,Pune
84	Mapping of soil moisture (ROSCC) based on cloud computing	Ms. Vina M. Lomte	Stackmint technologies,Pune
85	Fake currency detection using image processing note to coin exchanger using MATLAB	Ms. Vina M. Lomte	Stackmint technologies,Pune
86	Designing a health data management system based on HADOOP agent	Ms. P.V.Kasture	Stackmint technologies,Pune
87	Chatbot: An artificial intelligenent conversational agent	Ms. Jyoti Raghatvan	SAVH, Pune
88	Smart Traffic Management System For Effective Handling Of Congestion Control, Emergency Service Control and Identify the Stolen Vehicle	Ms. Pradnya Kasture	Quantaflux Technologies, Pune
89	Smart Secure system using Parallel AES	Ms. Nikhita Nerkar	Eternity Technology and Solutions., Pune
90	Secure bandwidth division in wireless router	Mr. Parth Sagar	Hi5 Broadband, Pune
91	Android application for Beacon Technology	Mrs. Jyoti Raghatwan	Meteor Softech, Pune
92	UI Automation for IVR System	Ms. Vina M. Lomte	DSK Technologies, Pune
93	Feasibility test of software test suite using mutation testing	Ms. Vina M. Lomte	Yagnot Softwares, Pune
94	BLISS- AIML Response System generator	Mrs. Shafali Gupta	Werardt Solutions, Pune

95	Development of mobile application for physical activity tracking	Ms. Vina M. Lomte	Werardt Solutions, Pune
96	Development of Social Application to enhance NGO & Society Collaboration	Mr. Karan Mashal	Hostingrecip e.com., Pune
97	Advanced Web Server Testing Tool	Mr. Karan Mashal	Hostingrecip e.com., Pune
98	Wireless Patient Surveillance System	Ms. Kanchan Varpe	Mythos Technology, Pune
99	Web Technology- Campus E-Voting System	Mrs. Manisha Desai	3D PLM Software, Pune
100	Network Security- GPS Vehicle tracking system	Mr. D. N. Rewadkar	Opolunt Technology, Pune
101	Mobile Computing - Android app for admission process	Ms. Trupti Gedam	S.V.K Techno, Pune
102	Next Gen Auto to Test framework for Mutation Testing using Selenium	Ms. Vina M. Lomte	SudoSaints, Pune
Department of Information Technology			
103	Patient health management system using WSN (IOT)	Ms. Pratibha Chavan	Qunataflux Technology Solutions Pvt. Ltd.
104	Land acquisition survey	Ms. Snehal Nargundi	Opulent Infotech Private Limited
105	University Recommendation for MS	Mr. Sanjeev Angadi	Tribbianas Software Solutions Pvt. Ltd.
106	Crop selection and smart irrigation using WSN (IOT)	Ms. Seema Shirke	Qunataflux Technology Solutions Pvt. Ltd.
107	Smart garbage bin using compactor	Ms. Shivganga Mujgond	Shantanu Tooling Systems
108	Voice over LTE using call Admission Control	Mr. Devanand Meshram	Hashtrix Technologies Pvt Ltd, Pune
Department of E&TC Engineering			
109	Rotary Car Parking System	Prof. S. S. Begampure	Cubix Automation Pvt. Ltd.
110	Smart Plotter using PLC	Prof. A. R. More	Easyfarm Techbuzz Business Solutions
111	Library Log Management System using RI-PI	Prof. V. N. Kshirsagar	Pixel Graphics & Technology
112	Farming Automation Using PLC	Prof. K. J. Amrutkar	Sofcon
113	IoT Based Car Safety & Puc Monitering System	Prof. S. A. Bhosale	Opulent Infotech Pvt Ltd
114	Navigation Shoes for Blind People using Arduino	Prof. S. S. Begampure	Tangent 3d Technologies
115	PLC based Automatic Car Washing	Prof. A. R. More	ETA

	System		
116	Virtual Keyboard using Image Processing	Prof. V. N. Kshirsagar	Pixel Graphics & Technology
117	Wave Height Measurement and Tsunami Detection	Prof. K. J. Amrutkar	N-Sys Technologies
118	Home Automation using Capacitive based Touch Switches	Prof. N. V. Dhole	Sumang Energy Solutions
119	Automatic Packaging System	Prof. R. K. Goragaonkar	Ultimate Electronics
120	Bridge Health Monitoring	Prof. K. J. Amrutkar	Sofcon
121	Pick & Place System for Parallel Conveyor	Prof. S. P. Magadum	Local Machines
122	Wi-Fi Based Wireless PA System	Prof. N. V. Dhole	Bitmapper Integration Technologies
123	Laser Distance Meter	Prof. R. U. Shekokar	Tangent 3d Technologies
124	Design of Wideband CMOS Low Noise for LTE Application	Prof. S. P. Magadum	S.M. Technologies Pvt. Ltd. (Rf)
125	Machine Signature Analysis using IoT	Prof. S. A. Bhosale	E-MAESTRO
126	Automation Using Power-line Communication	Prof. R. U. Shekokar	Tangent 3d Technologies
127	Bank Security System using Arduino	Prof. S. S. Begampure	Kavya Enterprises
128	IoT Based Biometric System	Prof. R. U. Shekokar	Dolphin Lab
129	IRIS Controlled Robot	Mr. Anant More	N-Coders, Budhwar Peth, Pune
130	Electricity Theft Detection and Energy Saving	Ms. Saylee Begampure	Beckoff Automation Pvt. Ltd., Pune
131	Cascade Control System using Smart PLC for Greenhouse	Mr. Anant More	Beckoff Automation Pvt. Ltd., Pune
132	Prepaid Toll Collection using Barcode reader	Mr. Anant More	Beckoff Automation Pvt. Ltd., Pune
133	Home automation control with web visalization	Mr. Anant More	Beckoff Automation Pvt. Ltd., Pune
134	Electronics Speaking Gloves for Dump and Deaf Peoples	Mrs. P.L.Soni	Defence Institute of Advanced Technology, Pune
135	Personal Health Assistant	Mrs. P.L.Soni	Dolphin Labs, Pune
136	Wireless Sensor Network for Spying Naxlite Area	Mr. V. D. Shinde	Dolphin Labs, Pune
137	Submarine based Power Management System Using AVR	Mrs. N.V. Dhole	Pacific Semiconductors Pvt. Ltd., Pune.
138	Money Transaction using ATM secondary PIN	Mrs. J.A. Sangogi	Cubez Technocrats Pvt. Ltd, Pune
139	Rasberry-pi Based Electricity Billing System	Mrs. N.V. Dhole	Bamo Electronics, Pune

140	Biometric Based Bank Security System Using OTP	Mrs. K.J. Amrutkar	Enigma Technologies, Pune.
141	Smart Medication System	Mrs. K.J. Amrutkar	Muti Taps Engineering, Pune.
142	Intelligent Elevator Sytem	Mrs. K.J. Amrutkar	Yash Elevator Pune.
143	Hotel ordering System	Mrs. V.V. Dheshmukh	FBB Industries, Chakan, Pune
144	Fire Monitoring System	Mrs. K.J. Amrutkar	Inditech System, Sinhgad Road, Pune
145	Energy Management System	Mr.Anant R. More	Sandvik Asia Pvt. Ltd., Pune
146	Rain Gauge Data-logger	Mr. V. D. Shinde	Mechatronics System Pvt. Ltd., Warje, Pune
147	Low Power Ultrosonic Flow Meter	Mr. R .U. Shekokar	ElectronetPvt. Ltd. (Asicot Technologies,) Tini, Kondawa, Pune
148	Smart Bus CAN System	Mrs.V. D. Shinde	PakoCommPvt. Ltd., Pune
149	Wireless Cell Tower Network Condition Monitoring System	Mrs. S. A. Bhosale	ARJ Asia, Pune

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

The institute is continuously organizing various State & National level workshops & training programs for faculty as well as students which encourage them to learn new technologies with a focus on capacity building and imbibing research culture among them. Some of which are summarized in Table 3.1.6.

Table 3.1.6: Activities held in institute

Sr. No.	Activity	State Level	National Level
1	Seminar	10	01
2	Workshops	16	05
3	FDP /STTP	00	01
4	Project Competitions	04	0
5	Paper Presentation	02	0
	Total	**32**	**07**

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

The institute has prioritized research areas on the basis of expertise of the faculty and other related resources available with the institute. The details of which are shown in Table 3.1.7.

Table 3.1.7: Prioritized research areas and the expertise available

Sr. No.	Name of Department	Research Areas	No. of Faculty Expertise
1	First Year Engineering	Graph Theory	02
		Hydrology	02
		Relativity, Cosmology	02
		Material Science	02
2	Mechanical Engineering	Thermal Engineering	03
		Industrial Engineering	01
		Material Science & Machine Design	01
		Residual Stresses in Welding	01
		Machining of Polymer Composites	01
		Sheet Metal Processing	01
3	Civil Engineering	Buckling Restrained Braces	01
		Construction Management	01
		Simulation of Canal flow	01
4	Computer Engineering	Wireless Sensor Networks	04
		Data Mining	05
		Image Processing	04
		Computer Networks	04
		Software Engineering	02
		Information Security	03
		Cloud Computing	03
		Internet of Things	04
5	Electronics and Telecommunications Engineering	Signal Processing	01
		VLSI & Embedded System	03
		Communication	02
6	Information Technology	Image Processing	03
		Data Mining	02
		Ubiquitous Computing	01
		Computer networks	01
		Soft Computing	01
		Cloud Computing	01
7	MCA	Grid Computing	01
		Cloud Computing	01
8	MBA	Marketing Management	04
		Financial Management	01
		Human Resource Management	01
		Consumer Behavior	02
		Customer Experience Management	01
		Training and Development	03
		Venture Capital and Private Equity Financing	01
		Quality Control and Quality Assurance	01
		Online Marketing	02
		Quantitative Research	01

	Performance Analysis	02

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 invites researchers of eminence to interact with teachers and students by organizing various activities like guest lectures /conferences /workshops /seminars etc. Names of some eminent personalities are listed in table 3.1.8

Table 3.1.8: List of Eminent Personalities

Sr. No.	Name	Designation	Organization
1	Mr. Piyush Pathak	Deputy GM	MANN &HUMMEL Filter Pvt. Ltd.
2	Mr.Girsih Gangapurkar	Director	HHA Global Consultants LLP,Pune.
3	Dr. Dattatray G. Parle	Principal Consultant-	Infosys Ltd., Pune
4	Mr.R.B.Dave	Retd. Executive Engineer	Irrigation Department Govt. of Maharastra
5	Mr.Pravin Kolhe	Executive Engineer	Water Resourse Department , Govt. Of Maharastra
6	Mr. Kanhaiyya Gorane	Vice President Operations USA	Alfa Laval Inc. Pune
7	Mr. Hemant Dusane	Manager	–Information Security Range Frameworks India Pvt. Ltd. Pune
8	Preeti Bhatia	Founder Roots Online	Roots Online
9	Sonali Banerjee	HR Head	Tata Technologies
10	Mahesh Kurtadkar	VP HR	Ghadage Patil Transport
11	Mr. Snehassis Dey	Manager-Acedemic	The GATE Acadamy, Pune
12	Mr. Sushil D. Bhagat	Manager Operations	Innovation (Design Development Analysis & Innovation)
13	Mr. Girish Poipkar	Director	Horizon Enviornment Engineering solutions, Pune
14	Mr. Nitin Datar	General Manager	Heat Treatment & Metallurgical Laboratory Carraro India Pvt.Ltd.
15	Mr. Arvind Paranjape	Retd.Assistant General Manager	TATA Co. operative power Ltd., Pune
16	Dr. Manesh Kokare	Research Dean	S.G.G.S. Institute of Engg. & Technology, Nanded
17	Mr. Atul Wadegaonkar	Director	MKCL ,Pune
18	Mr. Nixon Vincent	Senior Principal QA Engineer	Calsoft , Pune
19	Mr. Ravish Chadha	Manager	Calsoft , Pune

20	Mr. Naval Patel	Senior Technical Head	Calsoft , Pune
21	Mr. Anil Raj	Director	Cybervault Securities Solutions Pvt. Ltd., Pune
22	Dr. Vijay Gokhale	Technical Director	Pi Tech Solution, Sunbeam Institute of Information Technologies, Sterling Systems private limited, Eaglet Gateways To Software Networking & Education Solution
23	Mr. Mangesh Bhalerao	CEO and Co-founder	GetSetSmart, Pune
24	Dr. Viredrakumar Verma	Faculty member	Armament R&D Establishment, DRDO, Pune
25	Mr. Jayant Wagh	Team Leader	Avaya India Pvt Ltd., Pune.
26	Mr. Baipalli Vallab Rao	CEO	PHYTEC Embedded Pvt. Ltd, Bengaluru
27	Ms. Sonali Banerjee	HR Manager	TM Semiconductors
28	Dr. Ashish Puranik	Vice Principal	BMCC College, Pune
29	Ms. Reena	Program Co-ordinator	Datri Foundation India
30	Prof. Ashok Soman	Senior Professor	National Insurance Academy, Pune
31	Mr. Arvind Paranjape	Assistant General Manager	TATA Power Co. Ltd.
32	Dr. S. M. Shendokar	Principal	Bharati Vidyapeeth Lavale, Pune
33	Mr. Ganesh Darekar	Assistant General Manager	Kores India, Pune
34	Mr. Mahesh Nandurkar	Vice President	Kirloskar Oil Engines, Pune
35	Mr. Rajesh Chavan	Director	Jivansanjivani ,Human Research Wai
36	Mr. Yogesh Raiboge	Application Engineer	ETA (Educate To Automate) Automation
37	Col. Chatergee	Colonel, Indian Army	Indian Army
38	Mr. Bizil Shaikh	Assistant Manager	Mahindra & Mahindra
39	Dr. Vishwas Udpikar	Managing Director	Wavelet Group
40	Mr. Aditya Abhyankar	HOD & Dean	Dept of Technology SPPU
41	Mr. Sumit Jagdale	Research Scholar	Taiwan University

42	Dr. S.V.Bonde	Professor	SGGS IE&T,Nanded
43	Mr. Priyabrata Sikdar	Vice President	GATE Academy Banglore
44	Dr. U.V. Kulkarni	Professor	SGGS IE&T,Nanded
45	Mr. Sameer Deolalikar	Business Consultant	Erricson Sweden
46	Mr. Atul Pandharpatte	Design Engineer	Seagate Technology HDD(India) Private Ltd
47	Prof. A.S. Dandekar	Ex–Principal	Maharastra Institute of Technology, Pune
48	Er. V.M.Ranade	Professor	College of Engineering , Pune
49	Dr. D.N.Singh	Professor	Indian Institute of Technology, Bombay
50	Prof.Y.A.Kolekar	Professor	College of Engineering , Pune
51	Er. S. J. Jog	Consulting Engineer	Jog Associates, Pune
52	Mr. Prasad Patil	System Engineer	Igate Patani , Pune
53	Mr. Sunil Darekar	Sr. Police Inspector	Police Station, Warje
54	Mr. Mohammed K Ali H Jeelani	CoE	IMC Global Technology Services.
55	Ms. Sandeep Mukta	Senior Software Engineer	KPIT Cummins, Pune
56	Mr. Kapil Bhosale	Software Engineer	Fab.com, Pune
57	Mr.Vijay Bagul	Software Engineer	Cybage Pvt.Ltd.,Pune
58	Dr. Kailas Patil	Professor	VIIT, Pune
59	Mr. Shrikant Avachar	Team Lead	Euronet Services India Pvt. Ltd., Pune
60	Mrs. Shruti Sugvekar	Director	Image Creations, Pune
61	Mr. Shubham Shaikh	Softskill & Language Trainer	Image Creations, Pune
62	Mr. Motiya Bassargekar	Softskill & Language Trainer	Image Creations, Pune
63	Mr. Prabjiot Singh	System Engineer	TCS, Pune
64	Mr. R. Thirukumaran	Leading R&D	SAT Infosys, Coimbatore, Tamil Nadu
65	Ms. Rajashree Varma	CEO	Arths Systems, USA
66	CA Mukesh Kuwad	Director	White Knight Academy, Pune

67	Ms. Ruchita Jaju	Director	International Head Recruiters, Pune
68	Mr. Nishi Kant	Founder	Leo Edunomics, Pune
69	Mr. Kaviraj Gunjal	Principal Consultant	Tech Mahindra, Pune
70	Mr. Atik Pathan	HR Head	Tech Mahindra, Pune
71	Mr. Mohit Khemka	Director	Trung Retail Ltd., New Delhi
72	Mr. Pankaj Pradeep	General Manager HR	FIAT India Ltd, Pune
73	Mr. Ravindra Utgikar	Head Global Business	Sterlite Technologies Ltd., Pune
74	Mr. Gourav Gattani	Director	Dreamz Technology, Pune
75	Mr. Prafull Mankar	General Manager	Embionics Technologies Pvt. Ltd. , Pune
76	Mr Harendra Deshpande	Director	Creative Training Solutions, Pune
77	Mr. Anand Khot	HR Manager	IBM Technologies, Pune
78	Mr. Rishi Kapal	Vice President	Sony Mobile Communications, Pune
79	Mr. Bhupendra Singh Rathore	Management Consultant	Igniting Sparks, Pune
80	Dr. Rajan Shrikhande	Management Consultant	Hitech Solutions, Pune
81	Mr. Kishor Kenche	Deputy General Manager – HR	Mubea Systems, Pune
82	Mr. Siddharth Patankar	MS Student	University of Melbourne, Australia
83	Mr. Anil Dandekar	Diaster Management Expert	Govt. Department, Pune
84	Mr. Parth Joshi	Senior Manager	Reliance Info Media, Pune
85	Mr. Anirudan Raja Gopal	AGM - Supply Chain	Cummins India Ltd. , Pune
86	Mr. Vishwas Vaidya	AGM	Tata Motors Ltd. , Pune
87	Mr. Ram Bende	Founder	Life & Business Coach, Pune
88	Mr. Subhash Raje	Six Sigma Coach	Six Sigma, Quality Management & Supply chain management, Pune
89	Mr. Ravi Achaliya	Management Consultant	XL-COMM Solutions, 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 institute has made provision to give Sabbatical Leave for research activities whenever required. Experience of these faculties is helpful for nurturing the research environment in the institute.

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 has taken following initiatives:
- The students are encouraged and guided to implement projects on research areas
- The students and staff are encouraged to publish papers
- Presenting the research work in the various conferences
- Product development leading to application of patents
- Guest lecture delivery in prominent conferences and workshops
- Consultancy work related to research areas
- Exhibitions of Final year Project.
- Motivate students to participate in inter & intra college technical events.

The details of such initiatives are listed in table 3.1.10

Table 3.1.10 Details of transfer of relative findings of research

Sr. No.	Name of Faculty	Name of Project/Product	Specification	Application	Year
1	Dr. J. John Peter	Management Training Program	Management Training	Conducted Training Programs for ISTD ,Pune, Students & Industry	2011

3.2 Resource Mobilization and 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 institute has the provision of funds in the budget for research. The faculty can take advantage of it whenever required. The funds are provided as per requirement and faculties are advised to apply for research funding from university and other central government agencies.

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

Institute provides seed money to the faculty for their research when demanded. This provision is made by institute to promote research culture.

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

Institute encourages and provides financial support to students for their research by providing a fund for purchasing project equipment's and also provides financial assistance for presenting research papers at national and international conferences and project competitions when demanded. Financial support in the form of registration fees, fabrication facilities at college are provided to students to participate in various events such as BAJA Ecocart supra and Robocon competition.

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

To cope up with requirements of ongoing projects, faculties of various departments interacts with each other. These interactions include guiding interdisciplinary projects, writing research proposals and conducting research projects.

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

Following measures ensure the optimum use of research resources by students and staff.

- Highly equipped department laboratories are made available to students under the guidance of relevant staff members.
- Online IEEE & Science direct Access.
- Central library works for extended hours.
- Class rooms and Laboratories are also utilized for technical and non-technical courses such as GDPI sessions, QALR tests, certification courses like Android,.Net etc.
- Laboratories are also used to conduct IITFOSS spoken tutorial test, EDx courses, NPTEL courses and for various FDPs and STTPs.

3.2.6 Has the institution received money from funding agencies? If 'yes' give details.

Institute has received funds from SPPU, Pune for workshop conduction details of which is shown in table 3.2.6.

Table 3.2.6 Summary of the funds received during recent past.

Sr. No.	Funding Agency	Program/Other	Department	Duration	Grants received in Rs.
1.	Board of College and University Development, Savitribai Phule	State Level workshop on "Recent Trends in Robotics and	Mechanical Engineering	2 Days	80,000/-

	University Pune	Automation"			
2.	Savitribai Phule Pune University	National level Seminar	Computer Engineering	2 Days	78952/-
3.	Savitribai Phule Pune University	State Level Workshop	Electronics and Telecommunication Engineering	2 Days	67704/-
4.	Savitribai Phule Pune University, Pune	National Level FDP	Computer Engineering	2 Days	72,157/-
5.	Savitribai Phule Pune University, Pune	State Level Workshop	Information Technology	2 Days	30,095/-
6.	Savitribai Phule Pune University, Pune	State Level Workshop	Electronics and Telecommunication Engineering	2 Days	18,712/-
7.	Department of Science and Technology, Government of India	International Travel Support (Young Scientist) to Dr. Sheetal Ghorpade	First Year Engineering	NA	1,14,340/-
8.	Center for international cooperation in science (NBHM/DAE)	Travel grant to Dr. Sheetal Ghorpade	First Year Engineering	NA	30,000/-
9.	Board of College and University Development, Savitribai Phule Pune University	Research Grant	MBA	2 Years	1,10,000/-

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

The institute provides logistics, space for the research and settlement of grants. Details of ongoing and completed research projects are given in table3.2.7

Table 3.2.7 Details of ongoing and completed projects and grants received/ Submitted

Sr. No.	Faculty Name	Project Title	Funding Agency	Date of Submission	Status
1	Mr. Ritesh Bagalkoti	HPE-2248	Indian Railways	Ongoing	Ongoing
2	Dr. Sheetal Ghorpade	Swarm Intelligence based Weighted Graph Partitioning Model for Airspace Configuration	SERB, Department of Science and Technology	May 2015	In Stage III Peer Review
3	Dr. Sheetal Ghorpade	Hybrid Optimized Graph Partitioning Technique for Segmentation of Satellite Data	ISRO	November 2016	Submitted
4	Mr. Prashant T. Patil and Mr. Amar P. Narkhede	Role Played by PE firms in Promoting Entrepreneurship in Pune Region	BCUD, Savitribai Phule Pune University, Pune	September 2018	Ongoing
5	Mrs. Anima Rathod	A critical analysis of Employee Engagement Initiatives in select Organised Retails sectors of Pune city	BCUD, Savitribai Phule Pune University, Pune	July 2018	Ongoing

3. Research Facilities

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

- Institute has Computer Center, Project labs for students.
- All computer labs has high speed internet and available to students and faculties.
- Institute has central library which works for extended hours & also has digital library.
- Institute has a subscription of IEEE, ProQuest & Science Direct journals.
- Every department has signed various MoU's with the industries so as to share the technical facilities for completion of the research projects. In addition, Computer engineering department has developed GPU Education Center for the students to develop research projects
- Softwares required for students are made available in the laboratories.

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?

Required infrastructure facilities are available with continuous technological upgradation. Students and faculties are utilizing the same to upgrade with emerging trends. Faculties are encouraged to keep themselves updated on current trends and technology through various workshops, conferences and various courses on research methodology.

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.

Yes, the institute has received a special grant in the form of equipment from industry. Table 3.3.9 shows the details of the special grants received for procurement of new facility for research.

Table 3.3.3 Details of the special grants received for procurement of new facility

Sr. No.	Department	Facility Procured	Funding Agency	Amount (Rs)
1	Computer Engineering	Educational Equipment (Projector,Printer & PA System)	Savitribai Phule Pune University	1,00,000/-
2	Computer Engineering	Award of GPU Education Center with donation of NVIDIA 3 GPU Processors	NVIDIA Singapore PTE. Ltd.	Cost of Donated GPU Processors (2598.81 $) (1 USD = 66.2439 INR) Rs.172155/-
3	First Year	Educational Equipment (LCD) under QIP	Savitribai Phule Pune University	Rs. 92,800/-

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

- Students are encouraged to do sponsorship projects through which they can avail the facilities from industries
- Institute arranges industrial visits for the students which broaden the mental outlook of students with exposure to different workforces from different industries.
- Industry visits bridge the gap between theoretical training and practical learning in a real-life environment. It also makes students aware about the recent happening/research in industry. Table 3.3.4 shows the details of the industrial Visits arranged for the students.

Table 3.3.4 Details of the Industrial Visits arranged for the students

Sr. No.	Department Name	Name of the Industry/Organisation	Location	Date
1	Mechanical Engg	Accurate Sales & Services Pvt.Ltd., Hadpsar	Pune	5th & 24th Sept. 2017
		National Defence Academy, Pune	Pune	17th Sept 2017
		Balgandharv Rangmandir,Pune	Pune	21st Sept.2017
		Varsagaon & Panshet Dam, Pune	Pune	22nd &23rd Sept. 2017
		Pawana Dam, Pune	Pune	23rd Sept 2017
		Katraj Dairy,Pune	Pune	27th to 29th Sept.2017
		City Pride, Kothrud,Pune	Pune	3rd Oct. 2017
		Automotive Research Association of India (ARAI), Pune	Pune	7th Oct. 2017
		Ratan Motors	Katraj, Pune	17th Mar2017
		Electromech	Pirangut	14th Sept 2016
		Shree Systems	Pirangut	10th Oct 2016
		Accurate sales and services private limited Hadapsar, Pune	Hadapsar, Pune	12th Sept 2016
		City Pride, Kothrud	Kothrud, Pune	08th to 13th Sept 2016
		Katraj Dairy	Katraj, Pune	13th to 14th Mar 2017
		Warje Pumping station	Warje, Pune	20th to 22nd Mar 2017
		Shri Sant Tukaram SSK Bagasse Cogeneration Plant	Mulshi, Pune	22nd to 23rd Mar 2017
		Adlabs Imagica	Khandala	31st Aug 2015
		Warje Pumping Station	Pune	15th to 19th Mar 2016
		City Pride Kothrud	Pune	17th Aug 2015
		Accurate Engg. Company Pvt. Ltd.	Pune	7th Oct 2015
		Katraj Dairy	Pune	4th Sept 2015
		Ratan Motors, Katraj	Pune	8th & 9th Mar 2016
		Sant Tukaram Sakhar Karakhana	Pune	29th Mar 2016
		Volkswagen India Pvt. Ltd.	Pune	3rd Mar 2016
		Tarapur Automic Power Station	Tarapur, Maharashtra	10th to 25th 2015
		Accurate Precision, Saswad	Saswad	21st Mar 2014

		Katraj Dairy	Pune	4th Sept 2014
		Adlabs Imagica	Khandala	27th Aug 2014
		City Pride Kothrud	Pune	6th Sept 2014
		Warje Pumping Station	Pune	25th Sept 2015
		Pawna Dam , Mulshi	Mulshi	8th Oct 2014
		Ratan Motors, Katraj	Pune	3rd & 4th Feb 2015
		City Pride Kothrud	Pune	11th Sept 2013
		Accurate Sales and Services Pvt. Ltd.	Hadapsar	12th Feb 2014
2	Civil Engineering	CWPRS khadak wasala Pune	Pune	23rd Aug 2017
		Nirwana Builders	Pune	11th Sept 2017
		Karve Road Bridge (PMC)	Pune	16th Sept 2017
		Vithalwadi Sewage treatment Plant Pune	Pune	16th Sept 2017
		Ravet Bridge	Pune	16th July 2015
		Rohan Kritika	Pune	30th July 2015
		Nirvana Hills	Pune	10th Aug 2015
		Racold Thermo Pvt Ltd.	Chakan	19th Sept. 2015
		Essar Steel	Chakan	19th Sept. 2015
		Panshet Dam	Pune	10th Feb 2016
		Water Treatment plant	Parvati , Pune	21st &22nd Mar 2016
		Panshet, Varasgaon Dam, Katraj Tunnel	Pune	21st Mar 2016
		CWPRS Khadakwasla	Pune	29th Mar 2016
		CWPRS Khadakwasala	Pune	18th Sept 2014
		Altra Tech Cement	Ratnagiri	4th Jan 2014
		Rohan Kritika	Pune	23rd Jan 2015
		Satish Bora & Associate	Warje,Pune	8th Feb2014
		CWPRS	Pune	30th Aug 2014
		DSK Dream City	Pune	10th Feb 2015
		Lavasa City	Pune	25th Jul 2013
		Indian Hume Pipe	Sinhgad Road	5th Sept 2013
		Jaipur Metro	Jaipur	4th to 10th Mar 2014
		Westland Residency	Pune	30th Aug 2012
		RMC India Pvt. Ltd.	Pune	11th Mar 2013
3	Computer Engineering	CDAC	SPPU,Pune	30th Aug 2017 and 31st Aug 2017
		Girnar Soft	Jaipur	4th Jan 2017
		Persistent Systems	HInjewadi	14th Feb 2017

		C-DAC	SPPU,Pune	29th Sept 2016
		Ruler Dynasty Infotech Pvt. Ltd.	Amritsar, Punjab	2nd to 10th Feb 2016
		The Brihaspati Infotech.	Chandigarh, Punjab	28th Feb to 7th Mar 2015
		Fabcoders	Goa	4th Mar 2015
		Pepper Square.	Banglore	5th to 10th Mar 2014
		C-DAC	Audh, Pune.	12th Sept 2013
4	Information Technology	Fabcoders Company Pvt Ltd	Panji,Goa	09th Jan 2017
		Beta Soft Systems Pvt. Ltd.	Panchkula, Haryana	15th to 22nd Feb 2016
		The Brihaspati Infotech.	Chandigarh, Punjab	28th to 7th Mar 2015
		Pepper Square	Banglore	5th to 10th Mar 2014
5	E&TC Engineering	TVE Prasar Bharati	Sinhgad Fort, Pune	31st Mar 2017
		Coco-Cola Wave Beverages Private Limited	Amritsar(Shimala)	19th to 27th Feb 2017
		BSNL	Kothrud, Pune	24th Jan 2017
		Sofcon Ind. Pvt. Ltd.	Pune	06th Jan 2017
		Suzlon Industry	Chalkewadi, Satara	27th Aug 2016
		TVE Prasar Bharati	Sinhgad Fort, Pune	18th Mar 2016
		BSNL	Kothrud , Pune	14th Mar 2016
		Sifty Milk Products.	Amritsar, Shimala	15th to 23rd Dec 2015
		Mapro Foods Pvt. Ltd.	Mahabaleshwar, Pachgani.	24th Jul 2015
		Larsen & Turbo Limited,	Benglore	12th to 17th Dec 2014
		Ensoft Informatics Pvt. Ltd.	Khandala, Satara	2nd Aug 2014
		Suzlon Energy Ltd	Sada Waghapur, Satara	06th Sep 2013
		IMTC	Mahabaleshwar	12th Oct 2013
		Ensoft Informatics Pvt. Ltd.	Khandala, Satara	06th Sep 2012
6	MBA	SEBI	Mumbai	17th Feb 2017
		Kalyani Maxion Wheels Ltd	Chakan Pune	27th Aug 2016
		Om Logistics Pvt Ltd	Chakan Pune	27th Aug 2016
		Kalyani Hayes Lemmerz Ltd.	Chakan, Pune	27th Aug 2016
		OM Logistics Pvt Ltd.	Chakan, Pune	27th Aug 2016
		Indian Express Printing Press	Hinjewadi, Pune	29th Aug 2015
		Bisleri International Pvt Ltd	Kamshet, Pune	29th Aug 2015
		Security and Exchange board of	Mumbai	12th Feb 2015

		India (SEBI)		
		Universal Construction Equipment Pvt.Ltd.	Shivare, Pune	11th Oct 2014
		Katraj Milk Processing Plant	Katraj Pune	11th Oct 2014
		Mapro Foods Pvt. Ltd.	Wai, Satara	1st Mar 2014
		Volkswagen India Pvt. Ltd.	Chakan, Pune	1st Oct 2013
		Security and Exchange board of India (SEBI)	Mumbai	21st Jan 2013
		Alfalaval India ltd	Kasarwadi, Pune	14th & 15th Nov 2011
		Forbes Marshall Pvt. Ltd.	Kasarwadi, Pune	14th & 15th Nov 2011
		Coco cola Bottling Plant	Pirangut, Pune	9th Sep 2011
7	MCA	Barclays	Pune	8th to 9th Nov 2016
		CDAC - SPPU	Pune	28th Feb 2016
		Synechron Technologies Pvt. Ltd.	Hinjewedi, Pune	19th Aug 2015
		Synechron Technologies Pvt. Ltd.	Hinjewedi, Pune	24th Mar 2014
		Persistent System	Hinjewedi, Pune	31st Aug 2013

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

- Institute has central library which works for extended hours & also has digital library.
- Institute has a subscription of IEEE, ProQuest & Science Direct journals.
- Access to NPTEL,EDX,IITFOSS vedios & e-books
- Reference books and thesis on various research topics and projects are available.

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

- Computer engineering department has developed GPU Education Center in collaboration with NVIDIA Singapore PTE. Ltd. NVIDIA 3 GPU Processors are available for students and staff for their research work.
- Necessary software's, dedicated lease line to perform research experiments and computers with latest versions are made available in Computer laboratories of all departments.

3.4. Research Publication and Award

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

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

Major research achievements of the staff & students in terms of Patents obtained and filed are as shown in table 3.4.1.

Table 3.4.1 Highlights of patents in process

Sr. No.	Name	Patent	Project/ Product
1.	Mr. Rishikesh Bankar Mr. Sanket Hardikar Ms. Sayali Pasalkar Mr. Amey Bhandare Prof. Parth Sagar Prof. Vina M. Lomte	Virtual Keyboard Based Wireless Portable Projector System	201721039365 TEMP/E-1/40109/2017-MUM
2.	Ms. Nikita Rajiwade Mr.Shubham Ravlekar Ms. Mrunal Ghodke Ms.Ashwinee Pawal Prof. Parth Sagar Prof. Vina M. Lomte	Integrated Fog Cloud IoT Based Ambient Environmental Quality Monitoring System	201721039369 TEMP/E-1/40110/2017-MUM
3.	Mr. Pruthviraj Deshmukh Mr. Sahil Mehta Mr. Satyam Joshi Mr. Vedang Naware Prof. Parth Sagar Prof. Vina M. Lomte	A System For Currency Exchange And Coin Dispenser With Fake Note Detection	TEMP/E-1/40139/2017-MUM
4.	Shubham Pardeshi & Group (4 Students)	Automated Irrigation And Fertigation With Disease Monitoring System.	Patent Filed (Application No. 201721018321)
5.	Abhishek Joshi	Differential Bypass Gear Assembly	Patent Filed (Application No. 201721011973)
6.	Ms.Vina M. Lomte Mr.Parth Sagar	DPS(Dual Printer System)	Patent filed Docket No-18509
7.	Mr. Sanjeev Angadi	An Automated System for Theft Detection Based on Human struture and Expression Identification Using Video Surveillance	Patent filed Docket No-16105
8	Ms. Pratibha Chavan	Congestion Avoidance and control in wireless sensor network for chain topology	2185/MUM/2012 39/2012
9	Mrs. Vina M. Lomte Mr. Parth Sagar	Optimal Path Allocation System for	TEMP/E-1/5359/2017-

	Mr. Pratik Hublikar Ms. Ashwini Pawar Ms. Snehal Kulkarni Mr. Sagar Ingale	Traffic Management	MUM
10	Mr. Abhishekh Joshi	Differential Bypass Gear Assembly	In Process

3.4.2 Does the Institute publish or partner in the publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

No

3.4.3 Give details of publications by the faculty and students.

Faculty and students are encouraged to publish their research work on regular basis. The summary of publications by the faculty is shown in Table 3.4.3 (a).

Table 3.4.3 (a): Faculty and Students Publications

Sr. No.	Title	Students Publications	Faculty Publications	Total
1	International Journals	314	376	690
2	National Journals	15	23	38
3	Books	0	25	25
4	International Conference	14	22	36
5	National Conference	55	54	110

Table 3.4.3 (b) gives the details of book authored by faculty.

Table 3.4.3 (b): Books Authored by Faculty

Sr. No.	Department Name	Number of Books Authored
1	Mechanical Engineering	5
2	Civil Engineering	2
3	Computer Engineering	9
4	First Year	6
5	Information Technology	3
	Total	**25**

3.4.4 Research awards and recognition received from reputed Professional bodies and agencies, nationally and internationally

The research awards and recognition received from reputed professional bodies and agencies, nationally and internationally by faculty and students are provided in below table 3.4.4.

Table 3.4.4: Research awards and recognition

Sr. No.	Name	Patent/Award
1	Dr. Sheetal Ghorpade	International Travel Support (Young Scientist) Awarded by Department of Science and Technology, Government of India.
2	Dr. Sheetal Ghorpade	Travel grant from Center for international cooperation in science (NBHM/DAE).
3	Dr. Sheetal Ghorpade	Selected as Life member of Organization for Women in Science for the Developing world (OWSD)
4	Mrs. Vina Lomte	ACM Best Work in progress Award in CGPGCON -16
5	Ms. Swarupa Kamble	ACM Best Work in progress Award in CGPGCON -16
6	Mr. Harshal Bhosale	ACM Best Work in progress Award in CGPGCON -16
7	Ms. Kshitija Nandgaonkar	ACM Best Work in progress Award in CGPGCON -16
8	Ms. Rucha Deshmukh	Best Paper Award in CPGCON -17
9	Ms. Rashami Kale	Best Paper Award in CPGCON -17
10	Ms. Megha Bhute	Best Paper Award in CPGCON -17
11	Mr. Sagar Ingale Mr. Pratik Hublikar Ms. Ashwini Pawar Ms. Snehal Kulkarni	In National Level Competition " Best Innovation Award -17" held at GHR LABS & Research Center , Wagholi , Pune.
12	Mr. Amar Narkhede	Best Paper Award in National Seminar 'Revolutionary E-Business 2015'

3.5 Consultancy

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

Strategies

Following strategies are adopted by the institute to establish institute-industry interface

- Every department arranges invited talks by eminent resource persons from industry.
- Professional society activities involve active interaction with industry experts.
- Alumni meet provides a platform to share the current happenings in the industry.
- Annual project exhibition and competition provide interaction with industry experts.
- Industrial visits are held to give the students direct exposure to industry environment.
- VAPs & STPs are designed in collaboration with industry.

Systems

Following systemic components function to enhance institute-industry interface:
  a. Industry Institute Interaction Cell (IIIC)
  b. Training & Placement Cell
  c. Entrepreneurship Development Cell
  d. Professional Clubs and chapters

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 stated policies to promote consultancy

- The institute has started Industry Institute Interaction Cell through which faculty expertise and laboratory resources are made available to industry for the benefit of society and industry.
- Students, faculty & staff are encouraged to attend various development programs and their knowledge will be used for consultancy.

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

- Institute research committee and HODs have mechanism to identify the expertise of the staff.
- As per need, Institute deputes the staff for skill development programs. Institute organizes the programs on product development, design and research methodology which encourage the staff for consultancy.
- Institute helps in terms of finance to staff for attending research related activities like workshop, FDP etc.
- Institute deputes the staff for industrial training where they can find the potential for consultancy.
- Institute provides infrastructure to promote healthy research environment.

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

Table 3.5.4: **List of consultancy services**

Sr. No.	Area	Client	Revenue Generated in Rs.
1	Corporate Training in MS Excel	SKP Crossborder Pvt. Ltd.	3,750/-
2	Corporate Training in MS Excel	Sudit K Parekh & Co.	16,500/-
3	Corporate Training Advanced Excel	SKP e-Solutions Pvt. Ltd.	15,000/-
4	Corporate Training in MS Excel	TACO	4,500/-
5	Advanced Excel in Accounting	SKP e-Solutions Pvt. Ltd.	4,167/-
6	Advanced Excel in Accounting	SKP Tricor Corporate Services Pvt. Ltd.	10,833/-
7	Advanced Excel in Accounting	TACO	5,500/-
8	Effective PowerPoint Presentation	Sudit K Parekh & Co.	11,500/-

9	Corporate Training in MS Excel	SKP e-Solutions Pvt. Ltd.	7,650/-
10	Corporate Training in MS Excel	SKP Tricor Corporate Services Pvt. Ltd.	7,650/-
11	ISMS audit	SKP e-Solutions Pvt. Ltd.	16,875/-
12	MS Power Point Presentation	Tranter India Pvt. Ltd.	6,300/-
13	Corporate Training in MS Excel	SKP Business Consulting LLP.	20,700/-
14	Corporate Training in MS Excel	SKP Business Consulting LLP.	18,277/-
15	MS Excel 2007	Sudit K Parekh & Co.	3,692/-
16	MS Excel 2007	SKP Business Consulting LLP.	2,144/-
17	Advanced Excel in Accounting	Sudit K Parekh & Co.	11,118/-

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

Institute has policy of sharing the income generated through consultancy. Appropriate share is given to Institute & the concerned faculty which is used for development of consultancy facilities.

3.6 Institutional Social Responsibility (ISR) and Extension Activities

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

- Institute involves the faculty and students in community work. This helps the students to learn ethical values and understand their responsibilities and develop as good citizens.
- Social activities like blood donation camps, tree plantation, and road safety camps are organized.
- Faculty members and students visit the orphanage in the vicinity of the institute, provide support and interact with them. They have also conducted an eye check-up program for children.
- Created awareness about various saving group schemes and its benefits to empowerment of the women.
- Faculty and students actively participate in Swacch Bharat Abhiyaan in campus.
- Institute has an active NSS cell through which different social activities are planned and executed for each academic year.
  The details of activities are shown in Table 3.6.1

Table 3.6.1 Participation in Institutional Social Responsibility (ISR) and Extension activities

Sr. No.	Academic Year	Name of event	Date
1	2016-17	Yoga Day	21st June 2016
2		Tree plantation	1st July 2016
3		Awareness of Organ Donation by SKN Hospital Doctors	31st Aug 2016
4		Sahajyoga sessions for students & staff	Sem-I (2hrs/week)
5		Visit to Kamayani(Mentally challenged institute)	15th Sept 2016
6		Sweet distribution to orphanage institute	24th Jan 2017
7		Blanket distribution at Swargate bus stand to needy people	25th Jan 2017
8		Lunch arrangement at Matoshri- Old age home	26th Jan 2017
9		Poster competition on "Save the girl child"	9th Feb 2017
10		Women's Day Celebration Program	8th Mar 2017
11		Hemoglobin checkup for girls & lady faculty members	8th Mar 2017
12	2015-16	Visit to Kamayani(Mentally challenged institute)	10th Sept 2015
13		Sweet distribution to orphanage institute	24th Jan 2016
14		Blanket distribution at Swargate bus stand to needy people	25th Jan 2016
15		Lunch arrangement at Matoshri- Old age home	26th Jan 2016
16		Plastic kacharaMukta Pune ShaharAbhiyan	13th Feb 2016
17		Seminar on Global Warming & Ozone Retention by Rajendra Shende	20th Feb 2016
18	2014-15	Blood donation camp	3rd July 2014
19		Visit to Kamayani(Mentally challenged institute)	12th Sept 2014
20		Sweet distribution to orphanage institute	24th Jan 2015
21		Blanket distribution at Swargate bus stand to needy people	25th Jan 2015
22		Lunch arrangement at Matoshri Old age home	26th Jan 2015
23		Women's Day celebration	8th Mar 2015
24		Blood donation	24th Mar 2015
25	2013-14	Sweet distribution to orphan age institute	24th Jan 2014
26		Blanket distribution at Swargate bus stand to needy people	25th Jan 2014
27		Lunch arrangement at Matoshri Old age home	26th Jan 2014
28		Blood Donation	16th Feb 2014

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

- Students & faculties of the institute are members of different social organizations like Rotary Club, Hindutva Pratishthan, and NGO's. All these organizations have the student coordinators from the institute to decide nature of activities, it's planning, and execution.
- Every year Final year E&TC students give visit to Kamayani school for mentally challenged students and helps them by donating some funds and instruments.
- Computer Engineering Students has formed NGO named 'Aaple Kartvya'and they have conducted activities like cloth collection & donation, farmer donation, visit to Aaple Ghar, an orphanage and old-age home.
- Hindutva Pratishthan has conducted blood donation camp, visit to old age home Matoshree and donated meal and cloths etc.
- Student Coordinators give presentation of the activities thay have conducted to institute staff and students to motivate for social work.
- Institute appretiate these students for their work.

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

Institute encourages staff and students to involve in extension activities as shown in table 3.6.3. These activities aim at creating awareness and sensitization about society and social issues.

Table 3.6.3 Extension activities

Sr. No.	Extension activity	Outcome	Feedback from stakeholder
1	Blood Donation Camp	Blood Collection	Appreciation from Blood bank
2	Visit to ZP School in a Bhugaon Village	Final Year students visited school and distributed stationary items along with teaching them	Appreciation from School authorities
3	Tree Plantation	Created awareness among the students and the staff, the importance of trees for the betterment of environment.	Appreciation from students and staff
4	Swachchha Bharat Abhiyaan	Created an awareness among the students and the staff about cleanliness	Appreciation from students and staff
5	Visit to Municipal School	Cricket Kit distribution to under privileged children	Appreciation from School authorities
6	Netradoot – Orphanage Visit	Conducted an eye check-up program for children	Appreciation from K.K. Eye Institute
7	Women Empowerment	Awareness about various saving group schemes and its benefits	Appreciation from Grampanchayat

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.

Institute identifies problems of the society and organizes the activity accordingly. Institute with the help of different social organizations like Rotary, Hindutva Pratishthan etc. advertise for the activities like Blood donation camp, Tree plantation etc. to encourage community participation. Institute has its own budget for the programs. Apart from this, Institute applies for funding to University to carry out the programs. In these activities, students get awareness of social problems, develop a helping attitude and learn how to solve these problems and help a needy person. With this, they develop skills which lead to the development of better citizen.

3.6.5 Details of the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC, and other National/International agencies.

The institution promotes the participation of students and faculty in extension activities through various student bodies. Programs conducted by student bodies are provided in table 3.6.5

Table 3.6.5 Programs conducted by student bodies

Sr. No.	Month & year	Program	Details	No of Participants
1	October 2017	Vachan Prerana Diwas	On the occasion of birth anniversary of our former President Dr. A.P.J. Abdul Kalam	40 Students
2	October 2017	Beti Bachao Beti Padhao	Students performed street play "Save girl child " for promoting Beti Bachao Beti Padhao	35 students
3	October 2017	Blood Donation Camp	Blood Donation Camp in association with SKN Hospital blood bank	150 Student & Staff members of RMDSTIC
4	September 2017	Cloth Donation	Cloth Donation to Goodwill India Charitable	43 Students
5	September 2017	Visit to Shree Sai Seva Sadan	Distribution of study material and food to mentally chanllenged students	125 Students
6	September 2017	Pollution Free Camp & Clean city Drive	Mula Mutha Pollution Free Camp & Clean city drive on occasion of Ganapati Visarjan	125 Students
7	February 2017	Cloth Donation Program	Cloth Donation Drive in	RMDSTIC

			Association with Goodwill India Charitable Trust.	staff and students
8	December 2016	Seven days special winter Camp in Bhukum Village	Cleaning of Village, Survey of Village, Blood Donation camp, Tree Plantation, Social Awareness lectures.	50 students + 6 Faculty members
9	January 2016	CSR at ZP School	Sports Kit distribution at ZP School at Malavali village, near Lohagad fort	50 students + 4 Faculty members
10	January 2016	Climbathon– 2016	Event sponsored by Sharangdhar Pharmaceuticals, co-ordinated by RMDSSOMS, Warje. Street Play on Health awareness	22 students + 3 Faculty members
11	January 2016	Fruits Donation Drive	Information Technology Organized Fruits donation camp to help needy at Poona School & Home for the Blind Girls	25 Students
12	August 2015	Visit to ZP school in a Village	Final Year students visited school and distributed stationary items along with teaching them	54 students + 3 faculties
13	February 2015	Utthan 2015	CSR Drive at Khadakwalsa for women empowerment through entrepreneurship	20 students + 5 Faculty members
14	July 2014	Blood Donation	Computer Engineering organized a blood donation camp to help the needy and create awareness on the benefits of blood donation	56 students+ 2 faculties
15	January 2014	CSR at ZP School	Health Awareness session by the students	50 students + 4 Faculty members
16	November 2013	Eye check-up camp	RMDSSOMS, Warje visited an orphanage to help the doctors of KK Eye Institute as volunteers to perform Eye checkup for 400 orphan students	30 students + 2 Faculty members

3.6.6 Details of the social surveys, research or extension work (if any) undertaken by the Institute to ensure social justice and empower students from underprivileged and vulnerable sections of society.

The institute undertakes campaigns on the subjects like Women Empowerment, inclusion of underprivileged and weaker sections of the society which include:

- Organized blood donation camp to help needy people & create awareness on the benefit of blood donation.

- Stationary Items distribution to ZP Schools in villages.
- Study & health awareness session to ZP Schools in villages.
- CSR Drive at Khadakwalsa for women empowerment through entrepreneurship
- Visited an orphanage to help the doctors of K K Eye Institute as volunteers to perform Eye check up for 400 orphan students
- Athrva Lad & Nikita Rajiwade from Third Year Computer Engineering has participated in National Level TDCS-16 organized by IEEE Pune section in association with Education Society Chapter July –August 16 under which they have conducted sessions on Cyber Security in different Rural Schools.
- Following table shows some of the sample project done by the students for benefit of the society.

Table 3.6.6 Project done for Society

Sr. No.	Project Name	Students Name
1	Automated Irrigation And With Disease Monitoring System	Shubham Pardeshi
2	Optimal path allocation and signal Control System for emergency vehicles(OPASS)	Prateek Hublikar, Sagar Ingle, Ashwini Pawar,Snehal Kulkarni
3	Smart City Waste Management	Shivani Patil, Shradha Zhavre,Pooja Rathod, Rashmi Parashre
4	Monitoring and controlling drip irrigation system using IOT with embedded linux board	Rithvika Rai, Sheril Silvester,Shweta Bopshetty,Mrunal Yadav
5	Garbage Disposal Unit in Smart City	Hivarkhede Umesh Gajanan, Kulkarni Vinayak Arun, Nakate Nitin Nemagonda
6	Smart Helmet	Vidhate Supriya, Sonde Supriya, Takawale Praful
7	Crop Selection Method Based on Various Environment factors Using Machine Learning	Nishit Jain , Amit Kumar, Sahil Garud, Vishal Pradhan
8	Traffic Control Systems for Emergency Vehicals	Ajay Satbhai, Pruthviraj Pawar, Sayyam Shah
9	Smart Parking System dynamic and Systemetic allocation of Parking Slots Using Sensors	Ketan Kulkarni, Amit Metkari, Krishna Kulkarni, Akshay Shelar
10	App based Image Recoginition for Visually impaired people	Geeta Khaladkar,Sneha Salunke, Mayuri Tulzapurkar,Akshay Shelke

11	Development of Social Application to enhance NGO and Society Collaboration	Kunal pardeshi, Tejal Shigwan, Rohit Kulkarni, Asmita Bhogae

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.

Conducting extension activities is helpful for our students in following ways:

1. It helps students to work in a team.
2. Inculcate the importance of social and ethical values.
3. To use technical knowledge gained during academics to solve social problems.
4. To develop soft skills like leadership qualities, public speaking & personality development.
5. Students develop sensitivity towards social issues which affects their behavioral skills which leading to ethical and moral responsibilities.
6. Better connectivity between theory and practices.
7. Students understand social problems that can be solved.

3.6.8 Detail on the initiatives of the institution that encourage community participation in its activities.

Institute identifies problems of the society and organizes the activity accordingly. Institute with the help of different social organizations like Rotary, Hindutva Pratishthan etc. advertise for the activities like Blood donation camp, Tree plantation etc. to encourage community participation.

Institute students have NGO named "Aaple Kartavya" who finds the community needs and undertakes projects accordingly.

Important Initiatives of "Aaple Kartavya" are

- Cloth collection & donation
- Donation to farmers,
- Visit to 'Aaple Ghar', an orphanage and old-age home.
- Spending quality time with the children and the aged for the entire day.
- Visit to 'Manavya', which is an orphanage for HIV-infected kids.

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

Faculties from various institutes are invited regularly to conduct workshops & guest lectures on various topics of student interest. Number of activities is shown in table 3.6.9.

Table 3.6.9: Guest lecture Details

Sr. No.	Year	No of activities
1	2017-18	20
2	2016-17	47
3	2015-16	49
4	2014-15	36
5	2013-14	61
6	2012-13	18
Total		**231**

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

Institute contributes in terms of infrastructure and manpower for conducting various social activities of Rotary Club, Warje. Weekly meeting held by Rotary Club members and institute for smooth conduction of these activities. This initiative has appropriately appreciated by Rotary Club.

3.7 Collaboration

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

Details of the institutional collaboration include:

- Computer engineering department has procured Award of GPU Education Center with donation of NVIDIA 3 GPU Processors by NVIDIA Singapore PTE. Ltd. Cost of Donated GPU Processors (Rs 1, 72,155/-). Students and Staff can take advantage of this facility for their research work.

- Institute has collaborated with 18 industries for research work.

- Dr. Sheetal Ghorpade of first Year department has received travel grant from Department of Science and Technology and Government of India & Center for international cooperation in science (NBHM/DAE) for research work.

- Ms. Vina Lomte of Computer Engineering department has interacted with Center of excellence, SGGS IET, Nanded, for her research Project.

- Institute has collaborated with ECTA organization in Kigali, Central South of Africa; Rwanda. Under this collaboration institute can perform staff exchange.

Benefits

- The institute has benefited in technological revolution

- It helps in strengthened academics environment along with research.

- The institute has established excellent rapport with several industries and institutions which will be helpful for student placements.

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

The details of the MOU's sanctions and their contribution is as shown in table 3.7.2

Table 3.7.2 MOU's sanctioned and their contribution

Sr. No.	Name of national importance/other universities/industries/ Corporate entities	Year of Signing	Broad Area of Cooperation	Benefits accrued (accumulated)
1	Prolific Systems and Technologies Pvt. Ltd, Pune	2017	To Conduct Workshop Regarding Industrial Automation (PLC& SCADA)	Workshop of PLC SCADA Conducted
2	Vardan Realty	2017	Training in the area of building construction	--
3	Gallop Infra Services Consultancy	2017	Conducting Workshops and Training of the students related surveying	Students got detail practical knowledge about doing surveying using total station
4	Ashoka Constructions	2017	On site training and internships for students	--
5	Bhelake & Dhone Builders & Promoters	2017	On site training and internships for students	--
6	ecoRise Software Solution	2017	Trainings to students by conducting Workshop, Internship, Project Based Learning Training to Final year students	Two students have got internship in ecoRise Soft Solutions
7	Hackers Era, Pune	2017	Workshop and Training in the area of information security,	Workshop on Cyber Security

			advance ethical hacking and cyber security.	Cyber Security Lab
8	The GATE Academy, Pvt. Ltd., Pune	2017	Higher Studies	GATE Academy test
9	Elite Software	2017	Conduction of Guest Lectures Seminars,Technical Workshops & giving Placement Assistance	16 Students are selected for Software Development Unit
10	Indeed Inspiring Infotech, Pune	2017	To establish Center of Innovation Providing On job training and internships Conduction of Job readiness programs, Free Workshops & boot Camps	Workshop on Cloud Computing Workshop on Android Development Cloud Computing Lab Established
11	Wisdom Sprouts	2017	Knowledge Sharing to uderstand latest Technologies, Sponsored Projects, Intership on Live Industry Projects & placement oppurtinities	Conduted state level Talent Exibition
12	Stackmint Technology	2017	Workshops on recent Technologies, Expert lectures , Industrial visit, Recruitment Drives, Project Guidence to Final Year Students	--
13	ecoRise Software Solution	2017	Trainings to students by conducting Workshop, Internship, Project Based Learning Training to Final year students	Two students have got internship in ecoRise Software Solutions
14	Edvise International LLP.	2017	Career workshops, guest lectures and seminars, workshops for writing letters, guidance for application process	Seminar on Project based Learning in Computer Engineering Department
15	Stackmint Technologies	2017	Workshops, on recent technologies, arranging experts lectures, industrial	Conducted workshop on latex in Computer Engineering Department

			visit, recruitment drive	
16	Seed InfoTech	2017	FDP, seminars, workshops, Campus Recruitment Drive,	'Seed IT Idol' Competition conducted for FE,SE&TE Students
17	Center for Organizational and Individual Effectiveness	2017	Training	Condcuted aptitude sessions for MBA students
18	Mechatol Engg. Solutions,Pune	1st Sept,2016	To provide geometric Dimensioning & Tolerances (GD&T) Skill from employment perspective.	Value Added Programme conducted under STP V
19	Eleation-Element Simulation Academy	3rd Sept,2016	CAE/FEA/FEM Trainings(ANSYS Workbench, Vehicle Dynamics,HYPERMESH)	Value Added Programme conducted under STP V
20	Research Development and Innovation Lab, Pune	2016	R&D skills, advance ability to learn, analyze ,apply various facts of information	Conducted research guidance sessions two hours per week for TE Computer Engineering students
21	Logic Power, Vadgaon (Bk), Pune	2016	Student training for upgrading their skill for emploiblity & to establish Reaserch facility.	Students of T.E. (E&TC) join the Training Programme on Embedded System, suitable as per Industry needs.
22	Abhidi Solutions	2016	Developing and designing of website, research, consultancy in the field of IT sector, Organizing joint conferences and seminars, guidance for project work	One day hands on workshop on OpenMPI (Parallel Programming) for Final year students of Computer Engineering department.
23	Mitu skillologies	2016	Conducting FDP, Workshop & Guest Lectures, Arrange experts for guest lectures	One day workshop on Bigdata Analytics & MongoDB in Computer Engineering Department
24	Mersion (An entity of SkillTree Global Knowledge Consortium	2016	Certification courses in the area of Engineering, Management, Media, Design, Medicine & Entrepreneurship etc.	Enhance students employability

	Pvt. Ltd.)			
25	Truecopy Credentials Pvt Ltd ,Pune	2015	To provide Electronic & T360 system curricular transcript Support (generation & delivery) to the students of institute	Enhance students employability
26	Netgyani,Pune	2015	Conducting and Organizing District level or State level FDP, Workshop & Guest Lectures, Project Sponsorship, Certification Courses, Placement Assistance etc. on Cloud Technologies	Seminar on Cloud Computing for Final year & PG students of Computer Engineering department.
27	TeamSpringg Engineering Solutions LLP	2015	Conducting FDP, Workshop & Guest Lectures, Project Sponsorship, Certification Courses, Placement Assistance on Various Technologies	Seminar on Project Management for Computer Engineering faculty.
28	Sofcon India Pvt. Ltd., Pune	2015	Workshop and Training on Industrial Automation (PLC/SCADA) system Technology/Building Automation/Embedded System (8051/AVR/ARM/PIC/AURD INO/RASPBERRY PI/RTOS etc.).	Enhance students employability
29	Educate To Automate (ETA)	2015	To improve the skill set of Engineering students in Industrial Automation. To bridge the gap between College Education and Industrial Requirements.	Enhance student's employability through onsite training and Sponsored projects, in the field of Automation. (ETA have Sponsored 4 onsite Projects (in BECKHOFF) in academic Year 2016-17)
30	Brose India Automotive Systems Pvt.Ltd., Pune	2015	To promote interaction between the Institute and Brose in mutually beneficial areas. To provide a formal basis for initiating interaction between the Institute and Brose.	Enhance students Knowledge through Guest lectures, providing Projects to students and visit to their plant
31	Liftech System Pvt Ltd.	2015	For Conducting Guest lectures, Mentoring Sessions ,Summer Internship Projects, Staff Development Program,	This gave an exposure to the students to interact with the distribution channel

			Joint Research initiatives/Consultancy work, Joint CSR activity	partners. Students learned the drafting & analysis of Business MIS
32	GetSetSmart Edu Tech Private Ltd	2015	Provide value added Industry Focus Training Programs. Involving students to develop E-learning web and mobile platform and use of it. Staff and students training, placement support and carrier guidance.	Enhance students knowledge through guest lectures,providing projects to students and visit to their plants
33	Brose India Automotive Systems Private Limited	2014	Guest Lectures, Technical Seminars, Campus Interviews, Various Corporate meets, Job fair, BE and ME Projects with Brose India, Exchange of new technology updates from either party, Industrial visit to Brose office & plant for students ,Short and long term internships, Nomination of Brose employees for ME course	Enhance students employability
34	Dreamz Technology Pvt Ltd., Pune.	2014	Guest lectures by senior managers of Dreamz Technology. Mentoring sessions for students Summer Internship Projects Staff Development Program. Joint Research initiatives/Consultancy work Joint CSR activity	Being a part of industry Board of RMD SSOMS, Warje. Conducted sessions & member for evaluation of competitions and also sponsored certificates for these completions which held at our campus like Summer Internship competition, Company Simulation Challenge under STP-Student training program. Offered internship assignments to our students to work on live assignments
35	IMRB International	2014	For Conducting Guest lectures, Mentoring sessions , Summer Internship Projects, Staff Development Program, Joint Research initiatives /Consultancy work, Joint CSR activity	The association with IMRB gave an exposure to our students in terms of conducting market research for their clients in FMCG, Pharma, Automobile, Banking &

				many other industries our students got immense exposure to conduct field survey with an in-depth questionnaire. It also helped to developed the research based approach in students & management
36	Sharangdhar Pharma Pvt. Ltd	2014	For Conducting Guest lectures, Mentoring sessions ,Summer Internship Projects, Staff Development Program, Joint Research initiatives/Consultancy work,Joint CSR activity	RMD Sinhgad School of Management Studies benefited due to association with Sharangdhar Pharma Pvt. Ltd as follows Sharangdhar Pharma Pvt. Ltd in association with RMD SSOMS conducted a CSR activity "calmbithon" at Parvati. Students got an opportunity to work on "Summer Internship assignment" Mr. Dnyaneshwar Pahilwan oriented students about the Challenges & opportunities in Pharmacy Industry
37	Embionics Technologies Pvt. Ltd,	2014	For Conducting Guest lectures, Mentoring sessions ,Summer Internship Projects, Staff Development Program, Joint Research initiatives/Consultancy work, Joint CSR activity	Embionics Technologies Pvt. Ltd helped RMDSSOMS for Giving first hand exposure of the industry functioning, Senior Employees mentored our students about live working of the organization.
38	Zensar Technologies Ltd.	2013	To Promote special education and employment enhancing vocation skills among students	Opportunity for students to work in industry
40	M/s ATS Infotech Pvt. Ltd.	2013	Training on .NET and network Security	Training of Microsoft certification in .Net Technology

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

The institute has been in continuously interacting with industry through

- Value addition Programs.
- Industry Sponsored Projects.
- Placement assistance by the training agencies (Zensar & Persistent CoE)
- GPU Education Center.

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

Following table highlights the names of the eminent scientists who contributed to the various events.

Table 3.7.4 List of eminent scientists/participants contributed to the events

Sr. No.	Name of the Eminent Person	Designation	Event Name
1.	Dr. Virendrakumar Verma	Former Joint Director, Armament R&D Establishment, DRDO, Pune	Areas of reasearch in defence.
2.	Ms. Divya Padmanabhan	Associate Prof. & HOD Automobile Engg., Pillai college of Engineering, New Panvel, Navi Mumbai	Research areas in materials and their processing
3.	Dr. Virendrakumar Verma	Former Joint Director, Armament R&D Establishment, DRDO, Pune	Areas of reasearch in defence.
4.	Mr. Rajendra Shende	Former Director at United Nations Environment Programme	General Awareness on Global Warming
5.	Dr. Aditya Abhyankar	Dean, Faculty of Technology Professor, Department of Technology	Graduation Ceremony 2015 , SPPU Sponsored workshop on Mathematical Modelling, ME-IT syllabus revision

6.	Dr. Parag Kulkarni	Founder, Chief Scientist and CEO of the EKLaT Research and iknowlation Research Labs Pvt. Ltd**.**	FE Induction
7.	Dr. Manesh Kokare	Research Dean, SGGSEI & T, Nanded	SPPU sponsored National Level Seminar on " Qualitative Research Methodology with Standard Mathematical Modeling & Its Real Time Applicability " , State Level Workshop on Signal processing

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

Refer Table 3.7.2 for details of the linkages/collaborations which have converted into formal MOUs.

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations. Any other relevant information regarding Research, Consultancy and Extension, which the Institute would like to include.

The institute formally implements research and consultancy activity among faculty and students by encouraging them through following different platforms

1. Research and Development Cell
2. Entrepreneurship Development Cell
3. Industry Institute Interaction Cell.

CRITERIA IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

The institute adheres to the norms of AICTE for providing infrastructural facilities. The institute is having well-equipped laboratories, classrooms, seminar halls, library and facility for sports cultural activities and canteen.

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

The institute adheres to the infrastructural norms provided by AICTE and university to facilitate effective teaching and learning. The infrastructural changes are influenced by curriculum changes of SPPU, Pune.

Policy for creation of infrastructure:

- Use of ICT(Information and Communication Technology) in academic and administrative activities
- Provide classrooms equipped with ICT facilities
- Provide well equipped laboratories
- e-library facility
- Creation of sports facility as per the needs of the sports programs

Policy for enhancement of infrastructure:

- Regular housekeeping and maintenance
- Periodic updating of required software and hardware
- Regular updating of library
- Enhancement of e-learning portals e.g. ERP, e-Exam portal

4.1.2   Detail the facilities available for

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

The institution has sufficient infrastructure to implement curricular and co-curricular activities for all UG and PG programs. Details are provided in the following tables.

1) Common Instructional Area in Square Meters
Information of Common Instructional Area in Square Meters is given in
Table 4.1.2 (a).

Table 4.1.2 (a): Common Instructional Area

Particulars	Required Area in sq. m.	Available Area in sq. m.
Computer Centre	150	225
Drawing Hall/s	132	180
Common Workshop	200	594
Library and Reading Room	500	895

2) Administrative Area in Square Meters

Details of Administrative Area in Square Meters is given in Table 4.1.2 (b).

Table 4.1.2 (b): Administrative Area

Particulars	Required Area in sq. m.	Available Area in sq. m.
Principal/Director Office	30	45
Board Room	20	45
Office	150	300
Exam Control Office	30	45
Placement office	30	45
Maintenance	10	10
Central Stores	30	45
House Keeping	10	10
Security	10	10

Table 4.1.2 (c): Head of Department Cabin Area

Branch/Course	Required Area in sq. m.	Available Area in sq. m.
Engineering Sciences	10	20
Mechanical Engineering	10	20
Civil Engineering	10	20
Computer Engineering	10	20
Information Technology	10	20
Electronics & Tele Communication Engineering	10	20
Masters in Computer Application	10	20
Master in Business Administration	10	20

Detail information of HoD Cabin Area, Area for Department Office and Amenities Area in Square Meters are given in Table 4.1.2 (d), Table 4.1.2 (d) and Table 4.1.2 (d) respectively.

Table 4.1.2 (d): Area for Department Office

Branch/Course	Required Area in sq. m.	Available Area in sq. m.
Engineering Sciences	20	25
Mechanical Engineering	20	25
Civil Engineering	20	25
Computer Engineering	20	25
Information Technology	20	25
Electronics & Tele Communication Engineering	20	25
Masters in Computer Application	20	25
Master in Business Administration	20	25

3) Amenities Area in Square Meters

Table 4.1.2 (e): Area for Amenities

Particulars	No's / Capacity	Required Area in sq. m.	Available Area in sq. m.
Canteen	100	150	150
Common Room – Boys	1 (BCR)	100	100
Common Room – Girls	1 (GCR)	100	100
Play Ground		Adequate	Adequate

Other Essential Facilities Available on the Campus of the Institute
Essential facilities and desirable facilities available on the Campus are listed in Table 4.1.2 (f), Table 4.1.2 (g).

Table 4.1.2 (f): Essential Facilities Available on the Campus

Sr. No.	Particulars	Remark, if any
1	Recreational facilities (Details)	Cultural Center
2	Sports facilities if any	Cricket Ground, Football Court, Table Tennis, Carom Board
3	Disabled friendly infrastructure created	Yes
4	All Weather Approach Road	Yes
5	Potable Water Supply	Yes
6	Electrical Generator	82 kVA D.G. Set
7	Parking facilities	Yes

9	General Insurance Policy for assets	Yes
10	Sewage Disposal	Yes
11	General Notice Board and Departmental Notice Boards	Yes
13	Institution web site	www.sinhgad.edu
14	First Aid facility	Yes
15	Backup Power Supply	82 kVA D.G. Set + UPS 42.5 kVA
16	Telephone	Institute has provided SIM to all HOD
17	Safety Provision – Fire	Yes

5) Other Desirable Facilities Available on the Campus of the Institute

Table 4.1.2 (g): Desirable Facilities Available on the Campus

Sr. No.	Particulars	Remark, if any
1	CCTV Security System	Yes
2	LCD Projectors in classrooms	Yes
4	Audio-Video Room	Yes

6) Availability of Transportation/Conveyance Facilities:

Table 4.1.2 (h): Transportation Facilities

Sr. No.	Particulars	Available Yes / No	Remark, if any
1	Principal car	YES	YES
2	Ambulance	YES	Available as and when required from SKNGMHRC

Major laboratories available with the departments which are used for curriculum and research work are shown in the table below:

Table 4.1.2 (i) Laboratory details

Sr. No.	Department	No. of Labs.	Cost (Rs.)
1.	Civil Engg.	12	94,43,894/-
2.	Mechanical Engg.	15	98,29,122/-
3.	E&TC Engg.	11	97,65,534/-
4.	Computer Engg.	10	70,23,695/-
5.	IT	8	44,81,649/-
6.	Engineering Sciences	4	40,38,360/-
7.	MBA/MCA	4	12,95,312/-
8.	Workshop	1	37,76,912/-
		Total	4,96,54,478/-

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

- College buildings are being maintained ensuring maximum levels of safety and hygiene. Separate housekeeping cell functions exclusively to take care of hygiene in the campus.

- Every year various activities like blood donation camp, Swachh Bharat abhiyan and road safety, tree plantation are organized.

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).

The holistic plan of the infrastructure was prepared at the beginning of the institute in the year 2011. The construction was planned in phases to meet AICTE norms at any point in time. The academic programmes underwent expansion as envisioned in the beginning. The infrastructure was expanded as per the expansion plans. Optimal utilization is ensured through periodic reviews and alterations which are felt necessary.

The major activity in infrastructure development has been completed by the year 2013 for the planned intake.

The institute is situated in an area of **10.34 acres**. The total built-up area of all the buildings is **23000** sq.m. consisting of classrooms, seminar hall, drawing halls, laboratories, workshop, central library, faculty rooms, administrative offices, etc.

Figure 4.1.3 Typical Floor Plan of the Institute
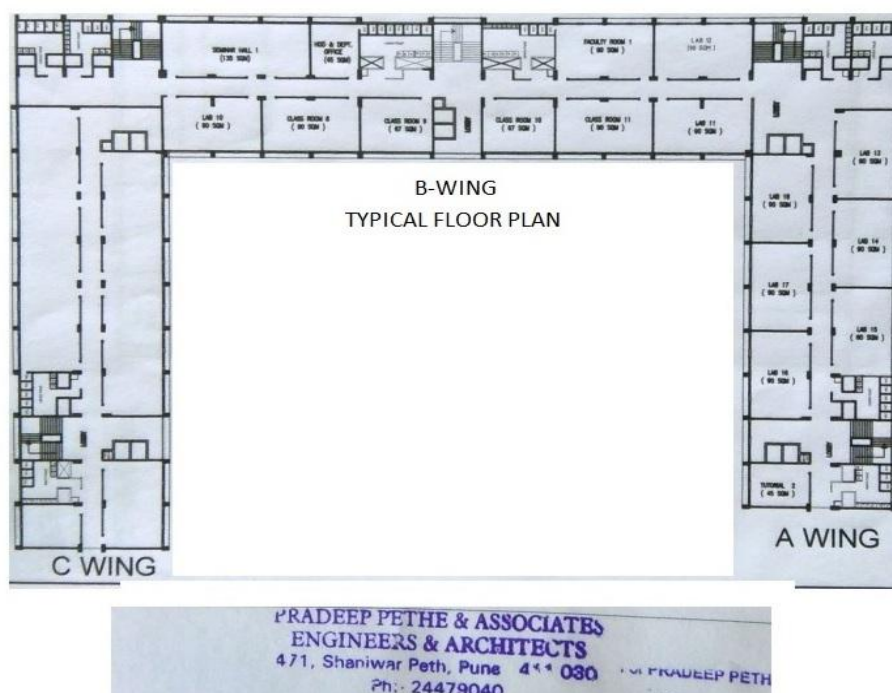
The investments in last four years in enhancing various infrastructure facilities are shown in table 4.1.3.

Table 4.1.3 Budget utilization (in lakhs)

Items	2015-16		2014-15		2013-14		2012-13	
	Allocated	Expense	Allocated	Expense	Allocated	Expense	Allocated	Expense
Acquisition of land and new buildings and infrastructural built-up	----	----	----	----	43.5	43.32	2755	2755.60
Library Books, Journals, Magazines, Library Equipments	7.5	7.603	5.50	5.359	18	18.05	37.7	37.55
Laboratory Equipments	23.25	23.33	16.5	16.5	85.7	86.68	126.6	125.5
Computers	10	10.42	47	46.91	65	64.44	57.5	59.72
Software	8	8.05	6.15	6.12	1.25	1.23	36.5	36.47
Games and Sports / Student Activity	21.5	33.08	23.5	23.13	23.55	23.66	6.95	7.88
Furniture	12	11.7	15	14.73	23	22.14	120.5	119.95

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

The institute ensures availability of infrastructural facilities for students to meet the requirement of physically disabled in following ways:
- Wheel chairs are made available in the institute in case of emergency.
- Examinations for such students are conducted on ground floor
- Institute has provided ramp and other facilities for the easy access to physically disabled students.

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

Limited accommodation is given to some faculty members at Vadgaon campus.

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?

- The institute also provides transportation facility to students who are in need to visit specialist doctors in the nearby area or in Pune.
- In addition to this, a multi-specialty hospital of the promoting society at Narhe, Pune caters to all the health-related support free of cost to all students and staff.

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.

List of Common facilities available on the campus is as follows

Table 4.1.7 Common facilities available on the campus

Sr. No.	Facility
1	Grievance Redressal unit
2	Women's Grievance Cell
3	Safe drinking water facility
4	Training & Placement Unit
5	Canteen

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, the library has an advisory committee known as Library Committee. The committee comprises of following members:

Table 4.2.1 Library advisory committee

Sr.No	Name of Member	Designation	Department
1	Dr. Charudatta Bangal	Chairman	Principal/Director
2	Mr. Praful Bhoyar	Coordinator	Librarian
3	Mrs. Amina Rathod	Member	MBA
4	Mr. Mahesh Thorat	Member	Mechanical Engg.
5	Mr. Manesh Khandare	Member	Civil Engg.
6	Ms. Mrunalinee Patole	Member	Computer Engg.
7	Mr. Dewanand Meshram	Member	Information Tech
8	Mr. Ashish Kadlag	Member	E&TC Engg.
9	Mr. Nitin Dhoot	Member	First Year Engg.

Meeting Frequency: Quarterly
Significant Initiatives:
● Procurement of commercial library software.
● Issuing the library cards with barcode to the students and staff for the issue of books.
● Digital library.
● 12 hours available reading hall facility.
● E-Resource collection.

4.2.2 Provide details of the total area of the library, seating capacity and working hours:
● Total area of the library and total seating capacity

Table 4.2.2 Library area

Sr. No.	Description	Remarks
1	Library and Reading Room	895 sq.m
2	Seating capacity	385
	Working Hours	
3	Regular working days	07.30 AM. to 07.30 PM
	During examination days	07.30 AM. to 07:30 PM.
4	Reading hall	07.30 AM. to 07:30 PM

Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-esources)

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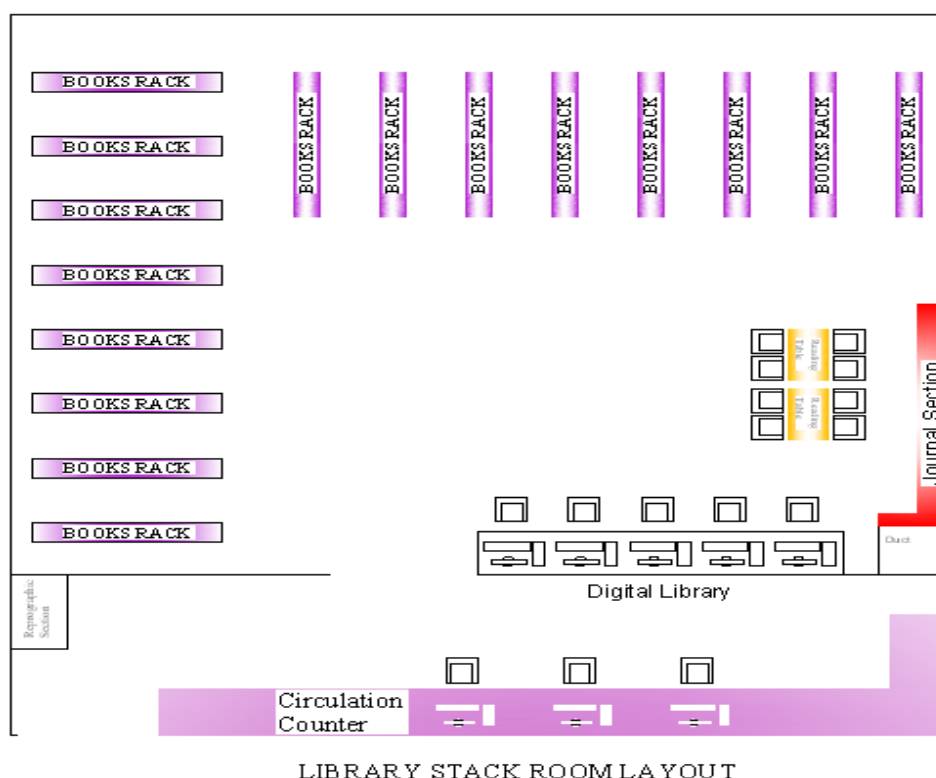
4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals, and e-resources during the last four years.

On the basis of changes in curriculum, research requirements, recommendations from staff and on students' demand the librarian raises the requirement of book titles, journals, codes, and standards, etc. and proposes a budgetary requirement for the procurement. Library committee takes a decision on the provision of allocation of the requirement. Actual procurement is carried out after the allocation of the budget. Procurement details of past 4 years are as under.

Table 4.2.3 Procurement & progressive details of past 4 years

Library Holdings	2013-14		2014-15		2015-16		2016-17	
	Numbers	Cost (Lakhs)	Numbers	Cost (Lakhs)	Numbers	Cost (Lakhs)	Numbers	Cost (Lakhs)
Textbooks	14530	60.07	15240	63.46	16367	67.30	17822	72.04
Reference books	3157		3371		3645		4045	
Journals / periodicals	22	0.13	14	0.05	85	2.96	85	2.98
E-resources	1 Databases	3.95	2 Databases	5.57	3 Databases	15.50	3 Databases	15.75
Progressive procurement details of past 4 years								
Textbooks	2418	11.94	710	3.38	730	3.84	908	4.74
Reference books	635		214		274		300	
Journals / periodicals	22	0.13	14	0.05	85	2.96	85	2.98
E-resources	1 Databases	3.95	2 Databases	5.57	3 Databases	15.50	3 Databases	15.75

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection? OPAC (Online Public Access Catalogue)

1. OPAC (Online Public Access Catalogue) : OPAC facility is made available through AutoLib- Library Management Software to know the bibliographical details about the collection. Separate terminals are made available in the central library for OPAC facility. And as it is a Web OPAC, a user from any location can search the library collection.

2. Electronic Resource Management package for e-journals: The library subscribes to IEEE all-society periodicals package, Science Direct and ProQuest Databases. In addition to that, link to scholarly open access journals/databases is also available on the library web page. A well-equipped digital library with 05 terminals having internet connectivity is housed in the central library for access to e-publications. As the access facility to e-journals is multi-user, and IP address-based, students can access the e-publications from anywhere in the campus.

3. Library Automation:
All the active book collection is updated in the AutoLIB database, and the Web OPAC is available for the users. The issue and return of books have been activated with the AutoLIB.

Facilities available
No of printers for public access: 01
Internet bandwidth: 30Mbps
Institutional Repository:

a) Article Repository: Published research paper/article of the faculty members: Yes
b) Book Repository: Published books of the faculty members: Yes
c) Thesis Repository: Awarded Ph.D. Thesis of Faculty: Yes

Content management system for e-learning :
Library is having content management system for e-learning : Yes

4.2.5 Provide details on the following items:

Students are allowed to keep the issued books for 7 days; 2 books are issued to the UG students, 4 books for PG Students. After 7 days they have to reissue the books. Faculty members can issue 10 books which need to be reissued after 3 months.

No of Books issued to particular	UG - 02 , PG - 04, Teaching Faculty-10
Average number of walk-ins per day	197
Average number of books issued/returned per day	182
Ratio of library books to students enrolled	5:1
Average number of books added during last three years	2021
Average number of login to OPAC	105
Average number of login to e-resources (per month)	586
Average number of e-resources downloaded/printed (per. month)	877
Number of information literacy training organized	Once in a semester
Details of Weedings out of books and other materials	NIL

4.2.6 Give details of the specialized services provided by the library.

Reference: The reference section of the library offers a personalized service. The library staff interacts with the students and faculty to know about their specific needs and requirements regarding referring to civil services exams and other competitive and entrance exams like GATE, TOEFL, GRE, CAT, TANCET, etc. and journal papers, standards, and codes. Upon an email request, the library provides required reference material.

Reprography: Available
Information deployment and notification: Information regarding the arrival of new books, journals, etc. is displayed on the notice board for the benefit of faculty and students.
Download: Yes (Exclusive 2 Mbps internet bandwidth)
Printing: Yes (01 dedicated printer)
Assistance in searching databases: Yes

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

The library staff members extend their services to the students and teachers in following ways.

- Personal guidance is offered in locating books pertaining to domain studies and about updating one's knowledge. The members spend more time with the students to refer to prescribed paper books or any other reference material needed for paper presentation, project submission, etc.
- Full support is provided to the students during the digital library hours.
- Reprographic facility extended to the students on request.
- Keeping the books, journals / periodicals / magazines, and other resources ready for immediate use of students by meticulously monitoring the status of issuing and returning books.
- Assistance in downloading e-content.
- The library provides indexes to project reports / PG dissertations of the students and staff.
- Continuous supervision to reduce the lead time when a student requires any help in the middle of study hour.

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

- Priority services are available.
- A special provision of issuing the books to helper/relative of such a person.

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

- Yes. Library collects regular feedback from the teaching staff members and students.

- The suggestion box is kept at the entrance of the library for getting valuable suggestions and feedback from students.

- Suggestions are reviewed and analyzed by library committee.

- Depending on the feedback, the reading room facility hours are extended before and during the examination period.

- Depending on the students / faculty demand, the addition of books in the book bank is done.

- Addition in the magazines, general knowledge books, newspapers, books for general reading, competitive examinations, etc. are also done on similar lines.

4.3. IT Infrastructure

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

Hardware

Table 4.3.1 a Hardware facility

Sr. No.	Description	Qty	Sr. No.	Description	Qty
1	Server	1	8	OHP	NIL
2	Desktop Computers	650	9	Display Screen	35
3	Laptop	NIL	10	PA System	7
4	Printers	36	11	UPS	108 kVA
5	Plotter	1	12	Copier machine	3
6	LCD Projector	45	13	Generator	82kVA +32 kVA
7	Scanners	5			

Server configuration for Central Internet Facility : Fortiget-100, Forty Analyzer- 100, Cisco SWITCH -3550, Server DELL R410, AC- LG 2 Ton Switch Cisco 2960, Fibre Media converters, 30 MBPS leased line (1:1)

Table 4.3.1 b Software facility

Licensed Software		
Sr.no	Department	List of software
1	Civil Department	Hit Office, Prima Vera
2	Mechanical Department	Matlab 12, Catia V6, Ansys 15.0, MasterCAM X9, Creo 1.0, FEA Package (MD FEA + Motion Bwelle + Fatigue)
3	E&TC Department	Matlab, Multisim, Microwind, Xilinx ISE System, ARM IDE
4	Computer Department	1) Microsoft Desktop Education AllLng License/Software Assurance Pack Academic OLV 1License Level Enterprise , 2) MicrosoftDesktopEducation AllLng License/Software Assurance Pack Academic OLV 1License NoLevel Student, 3) Quick Heal End Point Security Business Windows XP/2000/Vista/7/8
5	IT Department	1) Ubuntu 2) Fedora 3) Quick Heal End Point Security Business Windows 7
6	Engineering Sciences Department	Auto cad
7	MCA	Microsoft IBM Rational Rose, Quickheal Total Security 2014 Antivires

8	Office	Talley, Zoom
9	No. of nodes /computer with Internet facility	730 (approx. 95%)
10	Any Other	ERP Software and servers, Central Feedback server, Institution Website

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

- Dedicated servers for downloading several open source software and applications.
- Online access to ERP resources.
- Dedicated 30 Mbps leased line.
- Almost all computers in the campus are connected to the Internet.
- Administrative office, Principal, HoD and faculty cabins have the internet facility.
- The campus is Wi-Fi connected.

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

On regular basis, the institute reviews the IT infrastructure and accordingly it is upgraded. The institute has upgraded leave management system from manual to ICT based. In this other domains include performance appraisal, academic monitoring, etc. Institute has responded to the SPPU evaluation patterns by providing online platforms such as e-Exam portals and K-point software platform. Internet connectivity is available in classrooms. The Internet facility up-gradation for past 4 years is shown in table 4.3.3.

Table 4.3.3 Year wise internet up-gradation

Sr.No.	FinancialYear	Remarks
1	2017-18	70Mbps
2	2016-17	30 Mbps
3	2015-16	30 Mbps

- The Internet Service Provider (ISP) TATA provides connectivity.

- Video conferencing facility is available at e-Learning resource lab.

- Most of the labs are equipped with LCD's for online demonstration to students.

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

Table 4.3.4 Year-wise details for last four years

Sr. No.	Financial Year		Budgeted (Rs.)	Utilization (Rs.)
1	2015-16	Computer purchase	98,50,000/-	98,5650(HP 280 Qt 30)
		For Internet Leased Line	8,00,000/-	7,40,000/-
		Computer repair & Maintenance	--	--
2	2014-15	Computer purchase	43,50,000/-	43,21,800(Dell Optiplex 3020 Qt 120)
		For Internet Leased Line	7,00,000/-	7,00,000/-
		Computer repair & Maintenance	--	--
3	2013-14	Computer purchase	55,00,000/-	55,12,500 (Dell Optiplex 3010 Qt 225)
		Internet Leased Line	7,00,000/-	6,50,000/-
		Computer repair &Maintenance	--	--
4	2012-13	Computer purchase	55,50,000/-	52,25,000 (Dell Optiplex 390 Qt 190)
		Internet Leased Line	6,00,000/-	6,00,000/-
		Computer repair &Maintenance	--	--
5	2011-12	Computer purchase	46,50,000/-	46,27,500(Dell Optiplex 380 Qt 210)
		For the Internet Leased Line	6,00,000/-	6,00,000/-
		Computer repair &Maintenance	--	--

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?

- Faculty members prepare their lectures with extensive coverage and supportive study material using the multimedia tools. This course material is available on ERP.
- Audio lectures have been provided on K-Point server for the students. NPTEL resources are also available in the departmental library.

- Online e-Exam portal provides MCQ tests practice for students.
- Online spoken tutorials on EDX website are freely accessible to students.
- Faculty and students access the online journal in the library.
- Use of latest software's used by Industry in their regular curriculum.

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

Students' community is strongly involved in the use of ICT through smart phones and laptops. Thus, the technologically enabled learning resource is a need of an hour. The institute provides the necessary infrastructure to integrate ICT technologies to create learning resources. Students actively participate in following activities which have resulted in improvement in academic performances. The institute is precisely focused on student development in all the dimensions which are reflected in following activities.

A.   Curricular Activities:
1.   Teacher Guardian scheme
2.   Preparatory online & written tests are conducted for each and every examination conducted by the university.
3.   All the learning resources are available on ERP platform.
4.   K-Point server & NPTEL provide accessibility to audio and video lectures.
5.   E-Exam portal is used to conduct online mock MCQ tests.(myexamo.com)
6.   Students are exposed to work on live industry projects.

B.   Co-Curricular Activities:
1.   Student Training Program (STP I to V)
2.   Value Addition Programs.
3.   Active Student Associations at each Department.
4.   AMCAT tests.
5.   QALR Test
6.   GDPI For final year students.
7.   Student clubs like Industry Institute Interaction Cell (IIIC) and Entrepreneurship Development Cell (EDC) is active in the campus.
8.   Invited talks from Industry experts help bridge the industry-academics gaps.
9.   ICT facilities are used by students in organizing technical festivals, Workshops, and Seminars.

C.   Extra-Curricular Activities:
1.   SINHGAD NEON KARANDAK is a mega cultural and sports event annual organized by STES and competitions are held under this banner in both cultural and sports.

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

No.

4. 4. Maintenance of Campus Facilities

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

Table 4.4.1 Budget utilization for maintenance

Amount spent on	Amount in Rupees			
	2015-2016	2014-2015	2013-2014	2012-2013
Repair and Maintenance of Building	474861	2141225	2772892	2915142
Repair and Maintenance of Computers	23188	250000	108	8573
Laboratory equipments maintenance	367431	57120	228775	339224
Electricity	2484508	3005027	2620682	3032912
Telephone and Postage Expenses	185740	240627	81667	168651
Water Supply and Maintenance	17698	51883	158116	13801
Vehicle maintenance	21365	13143	233462	208272

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

- Every department maintains a stock register for the available equipment.
- Proper inspection and verification of stock take place at the end of every year.
- The civil and electrical work is monitored and maintained by the office superintendent.
- Periodic reporting on requirements of repairs and maintenance are submitted by the HODs to the administrative office. The requirements are collectively processed in every semester.
- Pest control of library books and records is done every year.
- Housekeeping services are regularly executed and monitored by OS.
- How and with what frequency does the institute take up calibration and other precision measurements of the equipment/ instruments? The calibration of instruments is carried as required.

4.4.3 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (Voltage fluctuations, a constant supply of water, etc.)?

- The sanctioned load by MSEB to the institute is 500 kVA. In addition, the institute has operational transformers of 500 kVA and additional 250 kVA capacity as standby.
- The institute also has one diesel generator of backup capacity 5 kVA for office.
- UPS (42.5 kVA) for critical usage are adequately available.
- Water treatment plant of softening capacity 3 lac litres per day is available. Aquaguard water purifiers are attached to water coolers.

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

Adequate fire extinguishers are available at different places in the building.

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. Every year institute publishes the prospectus, which is given to the students at the time of admission. Administration, Academics, and Student Welfare are the major heads covered in the prospectus.

ADMINISTRATION

- Institute mission
- Governing Council
- Institutional Highlights
- Anti-ragging policy
- Rules & regulations
- IT infrastructure
- Contact Information

ACADEMICS
- Departments
- Faculty and Staff information
- Publications
- Teaching-Learning Facilities

STUDENT WELFARE
- Teacher guardian scheme
- Student welfare Cell
- Internal Complaints Commitee
- Training & Placement activities (List of recruiters)
- Sports facilities and cultural festival
- Alumni activities
- Social activities
- The detailed information is provided on the institute website http://www.sinhgad.edu

The information provided in the prospectus is true and verified by higher authorities. The institute is devoted to provide quality education and state of the art infrastructure. The admission process of the institute admissions is governed by DTE and Maharashtra government rules and regulations. To ensure smooth induction of newly joined students Anti ragging committee is constituted. TG scheme is implemented for students with the help of teachers involved in teaching them. Women's grievance cell and T&P cell are also established.

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 institute allows students to pay their fees in installments, if they have some financial problems. The institute admits students under TFWS (Tuition Fee Waiver Scheme) which is the scheme of Government of Maharashtra, under J&K quota and Government of India norms.

Table 5.1.2: Institutional scholarships

A.Y.	Total number of Students	Number of TFWS students	Percentage of TFWS students	Total Amount in Rs.
Institutional scholarships given to students under TFWS				
2016-17	486	26	5.35	191854
2015-16	630	27	4.28	199233
2014-15	654	25	3.82	184225
2013-14	505	21	4.10	120108
2012-13	315	12	3.80	54948
Institutional scholarships given to students under J & K quota				
2016-17	486	4	0.82	96000
2015-16	630	3	0.476	72000
2014-15	654	4	0.611	96000
2013-14	505	4	0.792	96000
2012-13	315	1	0.317	24000

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

- From State Government of Maharashtra the admitted students receive scholarships/ freeship on the basis of categories for SC/ST category students, on the basis of category and annual parental income for OBC/SBC/VJNT students. Economically Backward Class (EBC) students with OPEN category having parental income less than Rs. One lakh are awarded tuition fees waiver up to 50%.

- Minority students are provided with State &Central Government scholarships.

- Apart from above GATE scholarships are provided by AICTE to PG students.

Information about all types of scholarships and the deadlines for applying is provided to the students time to time by the office. A separate notice board is kept for the display of all the information regarding scholarships for the benefit of the students.

The disbursement of the scholarships and free ships is done immediately after the amount is received from the Government.

Table 5.1.3: Financial assistance given to students

A.Y.	Details	Category				
		SC	ST	OBC	SBC	VJNT
2016-17	No of Students	169	2	494	37	159
	Amount (Rs)	15631450	157027	20408358	3027427	12966154
2015-16	No. of students	203	4	535	36	166
	Amount in Rs.	18039438	312728	21497430	2887341	13162300
2014-15	No. of students	184	2	402	38	136
	Amount in Rs.	15189879	158195	15258730	2908574	10316017
2013-14	No. of students	124	3	367	24	110
	Amount in Rs.	10009864	223541	13743161	1812194	8347455
2012-13	No. of students	78	0	233	17	83
	Amount in Rs.	5903469	0	8140637	1198923	5935773
A.Y.	Details	Category				
		EBC		Minority	STC/PTC scholarships	
2016-17	No of Students	**571**		**13**	**0**	
	Amount (Rs)	**22267497**		**325000**	**0**	
2015-16	No. of students	489		17	5	
	Amount in Rs.	18592986		425000	20000	
2014-15	No. of students	478		22	4	
	Amount in Rs.	17711661		550000	16000	
2013-14	No. of students	351		1	0	
	Amount in Rs.	12840689		10000	0	
2012-13	No. of students	235		4	0	
	Amount in Rs.	8099768		40000	0	

5.1.4 What are the specific support services/facilities available for Sudents?

The institute supports the students in their pursuit to become competent, cultured and praiseworthy citizens. For various types of students distinct support is provided as listed below.

a) Students from SC/ST/OBC and economically weaker sections

During admission process institute identifies the students belonging to SC/ST/OBC and the economically weaker sections. The detailed record of these students is maintained by the institute. These students are provided every possible help for the duration of their stay in the institute.

b) Students with physical disabilities

The institute ensures that the infrastructure facilities meet the requirement of the students with physical disabilities. For differently-able students, it is ensured that they don't have any physical obstruction while moving on the campus.

c) Overseas students

There are no overseas students at present.

d) Students to participate in various national and international competitions

The students are encouraged to participate in seminars, workshops, symposia, technical festivals and exhibitions at the state and national level. The promotional material of such events gets displayed on the notice boards of respective departments.

e) Medical assistance to students - health center, health insurance, etc

First aid boxes are available at all the important locations on the campus. Gynecologists are invited to address girl students on health and hygiene aspects. Regular medical checkup camps are conducted for students. Well equipped hospital is available in the organization. Free treatments are available to the students. Regular health checkups of students are done in the campus.

f) Organizing coaching classes for competitive exams

Individual departments together with T&P cell organizes coaching classes involving external agencies to help the students to appear for competitive exams. Online materials and solved question banks are provided to the students. The students are encouraged to make use of the library for competitive exams. Motivation and goal setting programs are arranged annually with the help of trainers.

Table 5.1.4: Motivation and goal setting programs

Sr. No.	Academic Year	Students strength	Topic
1	2016-17	110	Session on Strategic Leadership
2		40	Career Opportunities in Automation
3		55	Importance of GATE
4		55	Career opportunities with higher education in foreign countries
5		82	Importance of GRE
6		32	Importance of GATE
7		32	Future scope after GRE/GMAT exam
8		102	Career Guidance (GATE)
9		146	Career Guidance (GATE)
10		83	Career opportunities (CAD-CAE)
11	2015 -16	40	Personality development techniques
12	2014-15	60	Personality development techniques
13	2013-14	80	Management techniques
14	2012-13	50	Interview techniques

g) Skill Development (Spoken English, Personality Development Program, Technical Certifications, etc.)

- English newspapers and magazines are provided in the library to enhance vocabulary.
- Group discussion, technical presentation, seminars are conducted.
- Institute arranges different curricular and extra-curricular activities like debate and technical paper presentation.
- Value Addition Program (VAP) and personality development courses are conducted every year to bridge industry-academia gaps.
  h) **Support for slow learners**

The institute takes into account basic education needs of one and all. If the students are lagging in their learning process, the institute organizes remedial classes in different subjects.

i) **Exposures of students to other institutions of higher learning/corporate business house etc**

Eminent speakers from well-known corporate industry, institutes and universities are arranged to provide exposure to industry and market trends. Intercollegiate and national level symposia, workshops and seminars organized in the institute give an opportunity and motivation to the students to improve their domain knowledge, interpersonal and leadership skills. Outcome of all these efforts is the well groomed students for the professional world.

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

The institute has recently started Entrepreneurship Development Cell (EDC) which focuses on the following

- Leadership Skills and Marketing Skills
- Business Development Skills and Managerial Skills
- Communication Skills and Public Speaking
- Team Building Skills

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 competition, debates, and discussions, cultural activities, etc. Additional academic supports, flexibility in examinations, special dietary requirements, sports uniforms, and materials.

The institute consistently encourages and supports the students for participating in co-curricular and extra-curricular activities. Provisions made for promotion of these activities are listed below.

Sports Promotion

- Playground
- Participation in competitive events.
- Recognition and rewards for achievers.
- Public appreciation of winners.
- Sports uniforms and material.

Promotion to Cultural Activities

- The annual cultural festival, "Sinhgad Karandak" and "Neon"

The college gives special recognition for students showing remarkable performance in these extra-curricular activities. Every Year best outgoing student is awarded during annual appreciation function. The criteria for selecting best student include not only the academics but participation in other activities is also considered.

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

The Institute motivates its students for higher studies and for research work. Students are allowed to have access to library and reading hall till late in the evening so that they can prepare for competitive examinations. Students are helped by the teachers in matters of study materials and counseling for the right strategies. Students can appear in online examinations using internet facilities at our institution. Many students have appeared and qualified in various competitive exams

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

Below listed counseling practices are implemented by the institute.

a) Academic counseling
The students, at the time of admission, are guided by the faculty members about academic practices in the institute and about the scope and nature of the various branches. The Progress of the student is monitored regularly by TG and class teacher, if any learning gaps are there then they are brought to the notice of the subject teacher and HoDs for corrective measures to improve the learning performance by the way of offering extra coaching and supervision. Performance/Attendance shortfall the student is intimated to the parents by phone call and SMS. The teacher sends letters and SMS to the parents, if there are performance shortfalls on the part of any student. The academic counseling builds the self-confidence of the learner.

b) Personal counseling
The anti-ragging committee assures to the students about ragging-free environment in the campus. The TGs provide moral support to zeal with the culture of the institute. The TGs are also good at closely monitoring the psychological problems of the students and address their issues with care and consideration. Updated record of each student is maintained in the department to analyze his/her growth.

c) Career counseling-
The placement officer and placement coordinator of each department elucidates in detail the career prospects and the required preparations to seek suitable job. To strengthen the domain knowledge and technical skills of the students, special training sessions are organized. To develop the skills like resume writing, group discussion etc student training program (STP) are conducted. Quantitative Aptitude Logical Reasoning (QALR) and **Aspiring Minds Computer Adaptive Test (**AMCAT) are

conducted.   Mock interviews are also conducted to boost up the confidence of students.

d) Sinhgad Overseas Cell

We have a centralized cell which guides the students and does counseling to students to secure admissions after their GRE, TOEFL, IELTS results. No fees are charged for this.

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 an interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

The institute has a structured mechanism for career guidance and placement of the students. T & P activity is very dynamically driven under experienced, inventive TPO. To ensure the best performance of this cell, below mentioned efforts are continuously taken.

a) Awareness about the job opportunities

The institute maintains job profile of students on GEMS and manages their personal files also. The students are informed about the job vacancies offered by government and other agencies. The advertisement is put on the notice board available at the placement cell as well as on the notice board of every department. This information is also made available on the institute website. The students are informed about the last date and other important information regarding the vacancies. Please refer Table 5.1.9 for details of placement.

Table 5.1.9: Placement Data of all departments

Academic Year	No of Students Placed
2017-18	**29**
2016-17	188
2015-16	245
2014-15	243
2013-14	173
2012-13	84

b) Discussion of exam module & preparation of the exam

Lectures on career opportunities are organized by the placement cell and individual departments. A scrupulous discussion takes place on the exam module. The students are informed about the syllabus, the pattern, and key points of the exam. To analyze the student performance mock tests are conducted and after every test brainstorming session is organized to assess the strengths and weaknesses.

c) GDs/Interviews

To enable students to qualify in GD/PI of the companies, follow-up actions are taken on the basis of result analysis of the tests so as to improve the competency of the students. GD's are conducted at department level to increase the confidence of the students.

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 institute has a student grievance redressal cell. This cell is headed by the Principal, HoDs, and some faculty. Grievance redressal cell actively interacts with the students to help them to sort out their grievances. The students drop their grievances in the suggestion box or directly with the committee. In addition to this the committee interacts with the students and listens to their grievances during the feedback meetings. Measures are taken to address their grievances.

Table 5.1.10: Record of grievances reported and addressed

Sr. No.	Grievances reported	Actions taken
1	Mrs. Vina Lomte has filed a complaint against the student Deepali from Computer department.	Parents were called and both the students and parents were counseled.
2	A student from MBA Lakhan Mude had Beaten his Classmate Sumren Sheikh in a drunken state.	Lakhan Mude was called and given a warning.
3	Supriya Shukhla from E&TC department has filed a complaint Omkar Mohokar that he had sent an indecent message on wapp group.	During investigation both Supriya and Omkar were called and it was found that the Supriya was also involved in sending indecent messages on wapp group from a month before. Both of them were counseled and warned.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The institute has Internal Grievance Committee (Anti Sexual Harassment) to resolve issues pertaining to sexual harassment. Monthly meetings are held by the committee members.

5.1. 12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes, the college has anti-ragging committee. It comprises the Chairman (Principal) and other members (HODs, Parents representative, Student, Police, Faculty member, media). Faculty members make surprise visits in canteen, library, and institute premises to interact with the fresher's. The institute feels proud having maintained the campus ragging-free due to careful efforts to curb it.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

Following are such welfare schemes

- Details about the scholarships are displayed on the notice boards of the institution.
- The class teacher guides the students to be the beneficiaries of the various welfare schemes.
- Financial assistance is given to the needy & the worthy students.

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?

Institute has applied for registering Alumni Association (will be getting the registration number shortly).

Alumni benefits for students:
- Personality development program
- Career advising
- Industry Institute Interaction
- Mentoring
- Placement assistance
- Alumni Objectives:
- To bring together alumni in every area to act as the representative and coordinate various co-curricular activities.
- To utilize the experience, wisdom, zeal, ability and spare time of alumni for the benefit of the weaker sections of the society.
- To promote and provide education, educational scholarships and medical relief useful to poor and the needy students of the institute.
- To promote sports education, culture & knowledge by arranging seminars of alumni.
- To make the students career-oriented and attained international standard by sheer professionalism.

Table 5.1.14 List of Committee Members for alumni association

Sr. No.	Name	Designation
1	Prof. Mr. Maruti Nivrutti Navale	President
2	Dr. Charudatta B. Bangal	Secretary
3	Dr. Shridhar S. Deo	Treasurer
4	Dr. Madhva V. Nagarhalli	Member
5	Dr. John Peter	Member
6	Mr. P.N.Deshmukh	Member
7	Mr. Nitin D. Pagar	Member
8	Mrs. Sweta Kale	Member
9	Mr. Manohar Mungare	Member

5.2 Student Progression

5.2.1 Provide the percentage of students progressing to higher Education or employment (for the last four batches) highlight the trends observed.

Table 5.2.1: Students progression to higher education or employment

Student Progression	2017-18	2016-17	2015 - 16	2014 -15	2013-14	2012-13
UG To PG	---	19	32	16	NA	NA
%	----	3.02	5.35	6.01	NA	NA
Employed	29	188	264	243	173	84
%	23.94	24.60	21.56	28.9	32.03	35

The trends observed in recent years are that 60 to 80% of the students are opting for employment. 10 to 15% of students are opting for higher education like ME/MS/MBA and 1% of students are starting their own companies.

5.2.2   a) Provide details of the programme wise pass percentage and completion rate for the last four years (college wise/batch wise as stipulated by the university)?

Table 5.2.2a): Programme wise pass percentage and completion rate

Dept	Year	Number of Students Appeared	Passed	First Class with Distinction	First Class	Second Class	% of Pass
Mechanical Engineering	2016-17	255	219	133	77	9	85.88
	2015 - 16	215	181	46	101	34	84.19
	2014 - 15	61	56	18	34	4	93
	2013 - 14	NA	NA	NA	NA	NA	NA
Civil Engineering	2016-17	116	107	46	50	10	92.24
	2015 - 16	142	118	26	66	26	83.1
	2014 - 15	52	51	1	4	0	98
	2013 - 14	NA	NA	NA	NA	NA	NA
Computer Engineering	2016-17	126	125	91	26	8	99.21
	2015 - 16	89	86	41	41	3	96.63
	2014 - 15	52	51	17	23	11	98.07
	2013 - 14	NA	NA	NA	NA	NA	NA
Electronics and Telecommunications Engineering	2016-17	67	60	39	16	5	89.55
	2015 - 16	85	83	37	37	7	96.51
	2014 - 15	48	46	11	24	11	95.83
	2013 - 14	NA	NA	NA	NA	NA	NA
Information Technology	2016-17	65	63	20	24	5	96.92
	2015 - 16	67	62	13	35	1	92.53
	2014 - 15	53	53	8	28	3	100
	2013 - 14	NA	NA	NA	NA	NA	NA

	2015 - 16	128	98	15	68	15	76.56
M.C.A	2014 - 15	330	243	22	162	59	73.64
	2013 - 14	114	104	15	63	26	91.22
	2016-17	135	85	6	65	13	75.22
	2015 - 16	106	87	7	69	11	82.7
M.B.A	2014 - 15	143	117	10	72	35	81.81
	2013 - 14	214	160	0	30	30	74.76
	2012 - 13	112	99	0	27	72	88.39

5.2.2 b) 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

Table 5.2.2b): Programme wise comparison of pass percentage with other institute

Dept	Year	Number of Students Appeared in University	University % Passed	Institute % Passed
Mechanical Engineering	2016-17	**13498**	60	85.88
	2015 - 16	9850	82	77.53
	2014 - 15	8655	88	93.44
	2013 - 14	NA	NA	NA
	2012 - 13	NA	NA	NA
Civil Engineering	2016-17	5059	93.08	92.24
	2015 - 16	7525	78	83.1
	2014 - 15	6350	83	98
	2013 - 14	NA	NA	NA
	2012 - 13	NA	NA	NA
Computer Engineering	2016-17	8932	97.46	99.21
	2015 - 16	9085	90	96.63
	2014 - 15	7324	91	98.07
	2013 - 14	NA	NA	NA
	2012 - 13	NA	NA	NA
Electronics and Telecommunications Engineering	2016-17	**7431**	94.24	89.55
	2015 - 16	9319	85	96.51
	2014 - 15	8044	92	95.83
	2013 - 14	NA	NA	NA
	2012 - 13	NA	NA	NA
Information Technology	2016-17	3338	96.22	96.92
	2015 - 16	3990	90	92.53
	2014 - 15	3996	94	100
	2013 - 14	NA	NA	NA

	2012 - 13	NA	NA	NA
	2015 - 16	3694	81.4	76.56
	2014 - 15	6208	71.97	73.63
M.C.A	2013 - 14	4298	85.94	91.22
	2012 - 13	NA	NA	NA
	2016-17	131	79.94	87.61
	2015 - 16	10771	82.74	87.74
M.B.A	2014 - 15	9915	83.39	92.31
	2013 - 14	15418	76.47	83.64
	2012 - 13	14644	71.43	88.49

5.2.3 How does the institution facilitate student progression to a higher level of education and / or towards employment?

By observing leaning and skill of the students, the students are counseled and encouraged to choose either higher studies or seek employment.

Student progression towards employment:

To enhance the employability of students, the institute has started step by step STP right from the first year to final year. In addition, the students also get career training through T & P cell. Various employability tests are conducted through AMCAT program. Institute conducts on-campus placement drive for students. MoUs have been signed with various industries to increase liaison between academics and industries.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

- Personalized guidance is being provided to students to reduce the risk of dropout.

- The failed students are encouraged to attend remedial classes.

- Assignments, repetitive test questions, and tutorial benefits are given to such students.

- Faculty provides model solutions of university question papers.

- Conduction of mock practical examinations.

- Online e-Exam portal is available for students for online examination practice.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

- The institute has a wide range of sports, games, cultural and extra-curricular activities like Sinhgad Karandak, Dandiya, TechTonic, Neon etc.

- The institute has always created a niche for itself in the field of sports.

- The institute provides world class sports facilities to students. It has one state of the art Cricket ground and athletics track is comprising two football, one hockey, two lawn tennis, two basketball and two volleyball courts.

- The institute participates in various Inter-University and University Level Tournaments.

- Various cultural and extracurricular activities like solo dance, group dance, solo singing, duet singing, street play, fashion show, Mr. and Ms. Sinhgad, fine arts programmes like Rangoli, recipe competition are held to bring out the aesthetic and creativity of the students. Trophies are awarded to the best performers in these events.

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Various teams of the institute participate in different extracurricular sports and cultural activities and bring in laurels to the institute.

Table 5.3.2: Participation in extra curricular activities

Sr. No.	Name of the Game	Number of Teams participated		
		2016 – 2017	2015 - 2016	2014 - 15
1	Volleyball	1	2	1
2	Cricket	2	1	1
3	Kabaddi	1	2	1
4	Basketball	1	1	2
5	Relay	2	2	1
6	Football	1	3	1
7	Running	2	1	1
8	Swimming	2	2	1
9	Table Tennis	2	2	2
10	Throw Ball	1	1	1
11	Lawn Tennis	1	1	1
12	Chess	2	2	2

5.3.3 How does the Institute seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- Institute collects feedback from the employers in the prescribed format during campus interviews, formal meetings and from alumni during alumni meets conducted departmentwise, Feedback contains information regarding institutional provisions about the quality of students, students' performance in the interview, curriculum improvement, employers, and graduates, etc.

- The feedback helps in designing the training modules prepared by T & P cell for the current students. Employers and alumni give valid suggestions on curriculum development as well as infrastructure facilities.

- Online suggestions are taken from graduates. These suggestions are reviewed by AMC. Adequate measures are taken depending on committee recommendations to improve the performance.

5.3.4 How does the institute involve and encourage students to publish materials like catalogues, wall magazines, institute magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.

- Students are motivated to publish their technical ideas, creative art, poetry in the departmental newsletter & wall magazine.

5.3.5 Does the instituhave a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

NIL

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Following are various academic & administrative bodies having student representatives:

- CSI Student Chapter
- NSS (National Service Scheme)
- Departmental Students Associations.
- Entrepreneurship Development Cell (EDC)

Departmental Students Associations

Table 5.3.6: Academic and administrative bodies with students representatives

Academic/Administrative Bodies	2017-18	2016-17	2015 - 16	2014 - 15	2013 - 14
Cultural Committee	Mr. Ashish More	Mr. Aniket Pakhale	Mr. Tushar Mazire Mr. Yash Wani	Mr. Vinoy Modak	Mr. Sumit Memane
Sports Committee	Mr.Prasad Waghmare	Mr. Rajendra Pachupate	Mr. Mayur Pardeshi	Mr. Ninad Lele	Mr. Sidhant Gokule
MESA (Mech Dept)	Mr. Pratik Kadam	Mr.Ashish Sudame	Mr. Sanket Birmane	Mr. Mayur Lohkane	Mr. Varun Dashputare
eWORTS (E &TC Dept)	Mr. Aditya Joshi	Mr. Allen Anthony	Mr. Allen Anthony	Mr. Harsh Sampat	Mr. Ashutosh Patil
ACE (Comp Dept)	Mr. Omprakash Sutar	Mr. Atharva Lad	Mr. Atharva Lad	Mr. Mithila Undale	Mr. Sumit Memane
SAINT (IT Dept)	Ms. Tanaya Kumthekar	Mr.Sagar Karwa	Mr. Charudatta Pardeshi	Mr. Mayur Mahajan	Mr. Anuj Shrivastav
CESA (CIVIL Dept)	Mr. Akash Atale	Mr. Mayuresh Naralkar, Mr.Akshay Theurkar	Mr. Mithilesh Gawali	Mr. Swapnil Yadav	Mr. Sagar Khapte
SAE (Mech Dept)	Mr. Premraj Vhalgade	Mr. Premraj Vhalgade	Mr. Premraj Vhalgade	Mr. Aditya Kulkarni	Nil
CSR Club (MBA)	Ms. Salome Patol	Mr. Ketan Rakshe, Mr. Akshay Manjare	Mr. Atul Wanjale, Ms. Komal Khadatare	Mr. Murli Revaskar, Ms. Mayuri Tawade	Ms. Gaganpreet Kaur, Mr. Aniket Tawale
Cultural Committee (MBA)	Mr. Suhel Nadaf	Mr. Nikhil Londhe, Ms. Aishwarya Rahate	Mr. Atul Wanjale, Ms. Komal Khadatare	Mr. Heramb Khedekar, Ms. Shirin Mujawar	Nil
Editorial Club (MBA)	Ms. Tanvi Shirsat	Ms. Salome Patol Mr. Gautam Kothari	Mr. P. Siva , Mr. Joel Samuel	Mr. Shshank Kumar Ms. Devyani Deshmukh	Nil

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the institution.

Institute has applied for registering Alumni Association (will be getting the registration number shortly).

Alumni meetings are conducted in departments and in the institute yearly. Institute arranges lectures, seminars, workshops, and conferences by alumni or outside world expertise.

CRITERION VI: GOVERNANCE, LEADERSHIP, AND MANAGEMENT

6.1   Institutional Vision and Leadership

6.1.1   State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Vision

उत्तमपुरुषान् उत्तमाभियंतृन् निर्मातुं कटीबध्दा: वयम्|

We are committed to produce good human beings along with good Engineers.

Mission

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 and technology transfer. Our mandate is to generate, preserve and share knowledge for developing a vibrant society.

6.1.2 What is the role of top management, Principal, and Faculty in design and implementation of its quality policy and plans?

The Sinhgad Technical Education Society, one of the renowned technical educational hubs in Pune, has gained its name in the field, by implementing their plans and policies effectively and efficiently through the participative type of the governance.
The Top Management comprises of –
1. The Founder President/Secretary,
2. The Governing Body and
3. The Local management Committee.

Table No: 6.1.2 Role of top Management

Sr.No.	Plan for achieving mission and Vision	Responsible Authority (Management/Principal/ HOD/Faculty)
1	To organize institution so that it can contribute to the overall development of nation and society.	Management
2	To create citizens who are responsible with right attitude and value.	Management, Principal
3	To spread technical education in rural and urban areas.	Management
4	To promote research activity.	Management, Principal
5	To recruit qualified faculties	Management, Principal
6	To maintain teaching quality before	Principal, HoD, Faculty

	starting of every semester course files of theory and practical and lab manuals are prepared & same are monitored at	
7	To educate economically backward students for their upliftment.	Management, Principal
8	To ensure that faculty development programmes are arranged on the topics beyond the curriculum to keep the faculties updated.	Management, Principal
9	To monitor that the lectures-practical are conducted strictly as per time-table.	Principal, HoD
10	To ensure that feedback from parents is obtained on teaching – learning so that improvement is made	HoD, Faculty

6.1.3   What is the involvement of the leadership in ensuring following issues?

What is the involvement of the leadership in ensuring -
- The policy statements and action plans for fulfilment of the stated mission
- Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan
- Interaction with stakeholders
- Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders
- Reinforcing the culture of excellence

The Sinhgad Technical Education Society has proven themselves as leader in the technical and higher education field since 1993. This institute, is been governed by this society, also have established certain milestones in the Engineering & Management education.
The Institute has ensured its leadership by –

I.   The policy statements and action plans for fulfillment of the stated mission –
The management always believes in democracy and encourages participation of staff in the process of decision making in institutional functioning. In line with the objectives, the management makes budgetary provisions for providing the resources for learning and growth of the College. The institution admits students almost from all the sectors and background of the society. The mission is to holistically develop the excellent technical and behavioral skills in students and to produce highly competent technocrats. The management proactively supports all the activities that mould students into worthy citizens of the society. The
Governing Body ensures that the policy statements and action plans are fulfilled in accordance with stated mission of the institution by planning the training activity for every year.

II.   Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan –
The top management has prepared a 10 year perspective plan for both academic as well as financial growth of institute based on its vision, mission and objectives. The transparency and wide publicity of this plan are the major features of the

management. The action plans of the management are clearly communicated to all the employees through transparent procedures and delegation of authority to achieve positive results in improving performance of the institution. Prior planning is made by every department well before the commencement of the academic year and after careful scrutiny, the budget is allocated for improving infrastructure and development of the institute. Based on the objectives, the management advises staff to accomplish strategic plans through various activities. Success is ensured through strict adherence to action plans more over periodic review is done for mid course as well.

III.   Interaction with stakeholders –

The Institute is continuously engaged in taking efforts to maintain communications with its all stakeholders that results in bonding healthy relations. The major stake holder i.e student is considered as center of all the activities undertaken for their holistic development. The students are free to communicate with the management in both direct as well as indirect way. The on-line feedback system, teacher guardian scheme are some of the examples of these type of communications. The periodic meeting is organized by management with other stakeholders such as parents, alumni, and industry. The inputs and feedback about the functioning and various other aspects of the institute are collected through a number of channels. The feedback received from all stakeholders are reviewed, analyzed and remedial actions are initiated.

Interaction of the Principal with various stakeholders helps the institution in proper implementation of policies. The participatory role of the management encourages and sustains the involvement of the faculty, which is necessary for efficient and effective achievement of the excellence.

IV.   Proper support for policy and planning through need Analysis,
Research inputs and consultations with the stakeholders –

The institution has adopted the strategy of periodical feedback system, parent-teachers meetings, HOD meeting, Departmental meeting, discussion with alumni and students for sustainable interaction with the stakeholders.

Feedback from industry representatives is taken in a formal manner at the end of every placement activity as well as on the performance of student interns and in sponsored projects. The inputs collected from various stakeholders are taken into cognizance by the management and through various interactive methods the management takes reviews and suggests the critical areas for development and improvement. For example the Student Training Programs (STP) are designed and executed effectively at institute level based on these interactions. As an outcome of it, an improvement in placement has been observed.

V.   Reinforcing the culture of excellence –

Efforts are being taken to maintain work culture in institute by enhancing the research activities at the center. Faculty members are always encouraged to upgrade their academic qualification as well as to undertake different projects sponsored by different government organizations such as ISRO, DST, AICTE, SPPU, etc. in order to motivate the research activities. Organizing and participating in seminars/workshops/conferences is the usual practice of this institute that helps to reinforce a culture of excellence. Various refresher and orientation programs are also regularly being organized.

The staff members are encouraged and motivated to actively work in various academic bodies. Appreciation for academic achievement of faculty in terms of the

excellent results, encourage the spirit of excellence in the endeavors of faculty. Such practices create an ambience that is most conducive for academic excellence.

VI. Champion organizational change-
The management is always in favor of instilling flexibility in adoption of the policies to cope up with international expectations. Changes in the existing rules and regulations are brought about after a thorough discussion in Local Management Council meetings, Governing body meetings and Academic Advisory Body, based on inputs from the ground level along with the needs. The changes suggested by the management are smoothly and successfully implemented. Institute follows a structured way for ensuring this transition by aligning the expectations of the stakeholders with proper communication, and employee‟s efforts for growth of institution. Thus, academic and administrative matters are brought in to notice of the management to meet the changes required by the organization.

By adapting above approach, the institute has set Short term and Long term goals as stated below –

Long term goals:
1. To transform the institute into a Center of excellence for innovation, academics and research.
2. To establish the institute as an international center of education and research through tie ups with renowned international universities and researchcenters.
3. To be a premier institute having strong tie ups with reputed industries for giving more exposure to the faculty members and students through various collaborative activities.
4. Setting up incubation center in each discipline.
5. To establish Technology Commercialization Cell.

Short term goals:
1. To ensure all round development of students by fostering their academic, co-curricular and extracurricular skills.
2. To give the best career opportunities to students by enhancing their Employability and Entrepreneurship qualities.
3. To cultivate a research culture by guiding and encouraging faculty, developing state-of-art research facilities and through collaboration, consultancy andresearch funding.
4. To have an impactful existence of institute within the academic & professional fraternity in the estate and country at large.
5. To impart quality education to students in order to prepare them to meet the global challenges.
6. To set up research centre recognized by the affiliating University, SPPU.

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 heads of various departments conduct weekly meetings with the staff to review the activities of the previous week and plan for the next week. The institute has TG scheme, where direct feedback is taken from the students about academic and non-academic activities are discussed in HOD meeting. The LMC, which has representatives from both teaching and non-teaching staff, meets twice in a year. In

order to have effective implementation of the policies and to monitor and evaluate the same, various committees have been formulated.

AMC Committee:

The various committees formed as per following levels –

1. STES Campus Level
2. Academic Monitoring Committee
3. Local Management Committee
4. Department Level

AMC consists of following members –

Sr. No.	Name of the Member	Designation
1	Dr. C. B. Bangal, Principal	Chairman
2	Prof. M.G. Bhat, Dean Engineering (STES)	Management Representative
3.	Prof. S. B. Pharkute	Management Representative
4.	Dr. M. V. Nagarhalli, HOD Mech	Member

The members of this committee monitor the instruction delivery on a regular basis so as to record the progress in theory classes and practical sessions. Student's attendance is monitored, and corrective actions are taken if required by informing the parents. Feedback is taken from the students with regards to conduction of lectures and practical sessions. This feedback is conveyed to faculty for necessary action so as to improve the teaching-learning process.

- **Examination Coordination Committee:**

Smooth conduction of exams is monitored by this committee. Planning and conduction of mid-semester and end semestertests/mock practical examinations are done by this committee.

- **Projects monitoring committee**:

Encouraging students to participate in project competitions and present the papers in National and International conferences. The committee motivates the students to get industry sponsored projects. MOUs with various industries and training institutes are undertaken by this committee.

- **R &D, Grants, and revenue generation committee**:

Principal, Dean and HODs periodically monitor and motivate the faculty to apply and receive grants from various funding organizations like BCUD and other funding agencies. The committee motivates the faculty and students for revenue generation from existing infrastructure and research facilities available in the institute. The committee promotes expert training programs by internal and external resources for the staff and students of the institute. It also monitors and motivates staff and students for the organization of conferences by the departments.

- **Training and Placement / Alumni / Entrepreneurship skills development committee:**

Well, planned STP is arranged for students from the first year to final year. T&P supports the students to get better employment. This committee arranges hands-on-training, industrial visits, and in-plant training. Guest lectures by professionals from industry and academics are arranged. Guidance to thestudents for higher education in national and international universities is the major activity of this cell.

- **Cultural and sports committee: (Extra curricular)**

Cultural committee celebrates Teacher's day, Engineer's Day, Science Day etc. and organizes the annual social gathering. The sports committee organizes games for the students.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

In each department, various committees have been formed to oversee the efficient and smooth functioning of the institute. Faculty plays very important role for smooth conduction of academic functions apart from their regular role as a teacher. Following leadership roles have been identified where the faculty is appointed as a coordinator and allowed to work independently. They can make their decisions in the capacity of the leader of the activity or committee.

- **Lab in-charge**
  Faculty as lab in-charge looks after the development of the assigned lab.
- **Course co-ordinator**
  Faculty as a course coordinator acts as an in-charge for the assigned course and grooms junior teachers. The academic activities of the course are decided by this course coordinator.
- **Project coordinator, guides and review committee**
  Project is one of the major academic activities in Engineering, MCA and Management. Each department appoints various project coordinators depending on specializations. They play a vital role in all stages of project work which ranges from selection of projects, teaming and appointment of guides, review committee and final evaluation. Faculty plays an important role as a guide for the group of students and also acts as a member of review committee.
- **Examination Coordination Committee**
  To assess students' preparation for university examinations, various tests are conducted. The faculty is appointed as examination coordinator. A team of faculty will co-ordinate for smooth conduction of Examinations. The results are displayed with one week after the tests.

- **CEO and Dept exam coordinator**
  In addition to the internal exams, one faculty leads university examination as Chief Examination officer (CEO). He along with committee members comprising teaching and non-teaching staff is responsible for smooth conduction of university examination.

- **Teacher Guardian (TG)**
  Each faculty has been given a duty of TG. This scheme is already explained earlier.
- **Subject Chairman**
  Apart from institutional work faculty also, work for the university. They play an active role as subject chairman, paper setter, evaluator, etc. Apart from all academic activities faculty is also involved in various committees of seminars, conferences, and workshops, students training programs, etc.

6.1.6 How does the institute groom leadership at various levels?

Leadership is groomed at various levels as per the central office guidelines and requirement of respective campus-specific needs.

- **Director/Principal and Dean**
  They are administrative heads of the institute. The Principal has the power to take decisions as per the requirement of mission and vision of the Institute.

- **Heads of Department (HoD)**
  The HODs are appointed on the basis of the performance & attitude of the Faculty in each Department. They are identified among the existing faculty by the top management on the basis of their reputation as a teacher and administrative capabilities. The Principal holds HOD meeting weekly in which planning, execution and various issues pertaining to the academics are discussed. HoDs are independent to take decisions at departmental level in line with the discussion held in HoD meeting.

- **Faculty level**
  Leadership at faculty level is groomed through various activities as discussed in 6.1.5. All faculty members are encouraged and motivated for the result oriented activities to be conducted for the benefit of the students.

- **Student level**
  Each activity has students' representatives. They are allowed to take their decisions to organize all technical and non-technical programs. They are also appreciated for their performance for the proper organization.

6.1.7 How does the institute delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

As discussed in earlier part 6.1.6, the institute delegates authority and provides operational autonomy to the departments to work towards decentralized governance system. Academic responsibilities are fairly divided among all the faculty and these responsibilities are mentioned in the academic calendar of each department. Committees are formed for various curricular, co-curricular and extra-curricular activities to be conducted during the academic year. The departments are encouraged and given financial support to arrange various activities for the benefit of students and faculty. The Principal co-ordinates the day to day activities concerned with the administration of the institute.

6.1.8: Does the institute promote a culture of participative management? If 'yes', indicate the levels of participative management.

Yes, the institute is keen on the involvement of staff for improvement of effectiveness and efficiency of the institutional management processes. The institute has always been in favour of participative management.

All the founder members of the society were teachers themselves. They ensured in the constitution of the society that the institutions established by the society were all managed by the teachers and academicians themselves. As such, the teachers have always had an important say in the decision-making process within the institution.

The teaching and non-teaching staff are represented in the institute committees. The institute involves and allows the faculty members to participate voluntarily in the activities. There are various committees constituted to manage different institutional activities which require the participation of faculty.

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?

Development of quality policy

The management of the institute has a formally stated quality policy and is committed to:

- Provide excellent infrastructure facilities
- Employ highly qualified and experienced faculty
- Encourage the faculty for improvement in qualifications.

Promote Industry- Institute interaction.

Create an environment for R & D activities, Consultation work and getting industry sponsored projects for students.
The top management has framed a special internal Academic Monitoring Committee (AMC) who develops and drives the quality policies. These policies have been framed in line with the vision and mission of the institute. These are fine Tuned and driven after discussions with the Principal, Dean, and Heads of the departments under the guidance of top management. The quality policy is published and disseminated to various stakeholders. The institute undertakes various activities to fulfil the quality policies.

Review of quality policy

AMC visits periodically to the institute to review and monitor quality issues. This committee checks the course file, lesson plan, made by the staffs and suggests the corrections if any. It also takes the online feedback of the students and communicates with Faculty & does counselling for improvements in weak area. Principal, Dean and HoD takes the review of the suggestions given by committee for the effective implementation.

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. The institution takes effort in finding the key performance indicators for performance assessment and development. It addresses the issues from the stake holder's perspective and takes steps to fulfill their requirements. The institute has following perspective plans:

- Approval for Research Center by the affiliating University.
- Center of excellence in technology to serve for corporate social responsibility.
- Accreditation by National agencies.

6.2.3: Describe the internal organizational structure and decision-making processes.

Institute has an internal organizational structure as depicted below. As per the organizational structure, all members are responsible for the smooth conduction of academic programs. Governing body and LMC has the responsibility to take the decisions at central level regarding financial, academic and administrative policies. Office Superintendent is responsible for all office related administrative tasks. The Principal along with HODs of different departments are responsible for academic programs and administrative works. Training & Placement officer is responsible for training and placement of the students, and industry-institute interactions. Librarian is responsible for maintaining up-to-date library resources such as books, journals, internet facility, digital library, reading hall to be made available to all concerned at the appropriate time.

Fig. 6.2.3: Internal organization structure
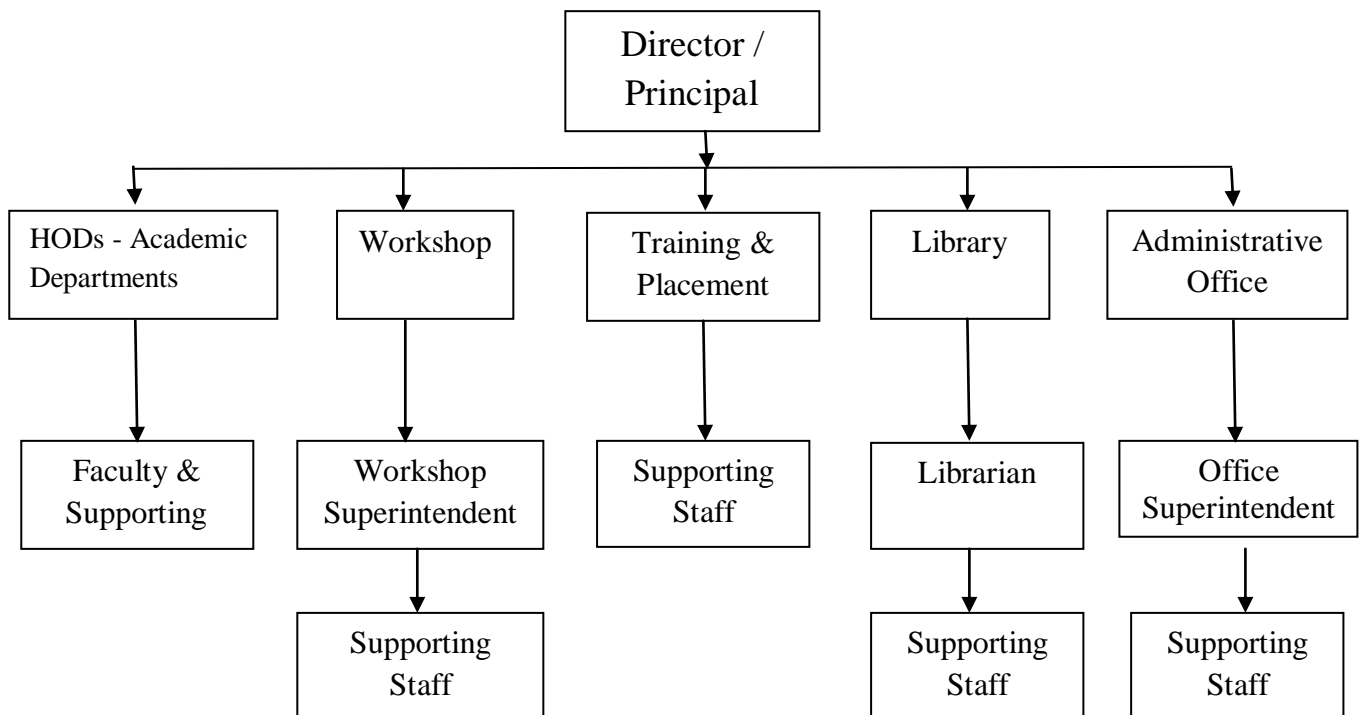
6.2.4: Give a broad description of the quality improvement strategies of the institution for each of the following:

A. Teaching & Learning

The institute ensures effectiveness of the teaching-learning process by:

- Implementation of outcome based teaching and students centred learning methodology
- Provision for web-based learning and through multi-media
- Recruitment of well qualified and experienced staff as per AICTE norms
- Course allocation to the faculty much before the commencement of the semester to help them prepare lesson plan and notes
- To bridge the curricular gaps contents beyond the syllabus is developed
- Emphasis on imparting skills through laboratory experiments and various skill development programmes
- Promoting professional development of faculty by providing support to undergo refresher courses and improve qualification.
- Review of the academic results of the previous year.
- Online feedbacks from students to assess the teaching skills of the faculty. If the feedback of any teacher is not up to the mark, then suggestions are given to the respective faculty. If fedback still continues to be unsatisfactory then as per AMC directions teaching load may be changed.
- Continuous assessment of students' performance through tests, assignments, seminars, and projects.

B. Research & Development

R & D cell is an integral part of the activities of the institute. This cell is one of the wings of the institute which facilitates, channelizes, records, and regulates all the academic/sponsored/ collaborative research projects and consultancy works in the institute. The institute is closely working with core industries to train the staff and students. The key goal of the cell is to provide a creative atmosphere in which higher studies and research flourish amongst the faculty and students. It also promotes and manages institute-industry interaction. The major role of this cell is in administrating research projects sponsored by various Government and non-Government, research funding agencies such as UGC, DST, AICTE, SPPU (BCUD), etc., and promotion of collaborative research partnerships for undertaking creative and advanced research.

C. Community Engagement

The institute actively participates in various CSR activities. Students participate in the road safety training, tree plantation drives etc. Apart from this, the institute organizes blood donation camp every year.

D. Human resource management

The institute has a well-defined and effective recruitment procedure, systematic performance appraisal system and promotion policies. The institute frequently arranges training programmes and also appoints the staff to other organizations for attending such programmes. The staff members are appreciated for their performance.

E. Industry - Institute interaction

The institution has an IIIC, which promotes training and visits to reputed industries. Both UG and PG students are motivated to undertake their final year project in the relevant industries of their domain, thus exposing and preparing them to meet the requirements of the industry. The institute has signed MoUs with well-known industries to improve the interaction with industries; thereby providing better exposure to students and faculty members.

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?

Student feedback is taken formally by the online feedback system and informally through interactions. The comments from the parents received during parents meet are communicated to the Principal through HoDs. Alumni suggestions and feedback is taken during alumni meet also used to review the activities of the institution. All such feedbacks received are communicated to top management through written and verbal communication.

Also, the AMC is a vital body under the constitution of the society. It meets periodically to take a review of the developments in all the institutions. During the board meetings, information is shared and the resolutions passed are subsequently sent to academic and finance councils and then finally to governing body. Thus, information regarding developments in all the institutions finally reaches to the top management. Once the top management approves the information, it is circulated among other stakeholders, if necessary. The Principal also imparts necessary information to the HoDs in the periodical meetings.

The website of the institute is very much interactive, and the facility for direct feedback from stakeholders is provided on the website. This feedback is available with top management which can be used to review the activities of the institute. In addition to that suggestion box and feedback register is made available by the department for the feedback. This data is made available to top management as and when required.

6.2.6 How does the management encourage and support the involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

- The management & Director / Principal involve the staff by Participative decision-making.
  Principal involve HoDs and faculty members in decision-making process. Appropriate guidance is provided to the staff for all types of activities.
- Encouragement and receiving constructive suggestions-criticism
  The management always encourages faculty to involve themselves in ongoing institutional processes. Management maintains communication with the staff and is open to their suggestions.
- Involvement in activities and feedback
  Faculties are the members of various committees at the institute level. Through their involvement in the said activities, they are having freedom to make appropriate changes in the operations so as to make it more effective.

- Supporting through finance
  Adequate funds are made available to faculty for implementation of the new concept.
- Staff training
  Staff training is achieved through FDP and TAP. Thus, staff becomes a change agent to improve the operationalisation of institutional processes.
- Healthy competitions and appreciation
  Institute regularly appreciate best performing department and faculty, to provide motivation to improve the institutional practices.
- Incentives for extra-efforts
  Institute has well-defined norms for conducting training and consultancy, through which financial incentives are gained by faculty. Thus, it helps in improving and upgrading institutional facilities and culture.

6.2.7: Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Sr. No.	Resolution made by the Management	Status
1.	Provident Fund contribution to be increased from Rs.780/- to Rs. 1800/-	Implemented from 1st Sept 2014.
2.	Dearness Allowance (DA) to be increased from 113% to 119% to all teaching and nonteaching staff and payment of DA arrears	Implemented from 1st July 2015.

6.2.8   Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

The management is broadly in favour of autonomy. Although SPPU provides, the institution has no immediate plans for obtaining autonomy.

6.2.9   How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The institute has following committees for hearing grievances/complaints from students, teaching, and non-teaching staff.

- Local Management Committee
- Anti-ragging Committee
- Women's Grievance Cell
- Student Grievance Redressal Cell
- Regular HOD meeting

Everybody in the institution is made aware of the existence of these committees. As and when the committee receives a complaint, they meet immediately, review and resolve the problems. They also ensure that necessary actions are taken. The complaint details are filed separately and confidentiality is maintained.

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?

In last four years, there is no court case against 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, in every semester the institute collects online feedback from students on teaching-learning process and facilities for the same. AMC evaluates the performance of subject teachers using the specified questionnaire. This is an online process and is conducted at the department level. A faculty and one supporting staff of the department are assigned this activity, and the HoDs monitor the process. HoDs go through the feedback and convey it to staff members. After discussion, decisions are taken for the improvement of institutional performance which results in improvement in performance of teachers and university results. It resulted in improvement of university results and staff improvement.

Also, suggestions and complaints are collected through suggestion box, formal surveys and informal interaction for the improvement and development of the academic standard as well as various types of facilities. Institute has well defined TG scheme, which is beneficial for improving institutional performance. Students provide their feedback on the working of the administrative office, facilities provided by the department, facilities provided by the institute and the working of the training and placement cell as well. This resulted in improving placement record.

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 taking continuous efforts for the professional development of its teaching and non-teaching staff by:

- Promoting and motivating to go for higher education.
- Supporting for Ph.D. research – At present, many staff members are pursuing their PhD.
- Providing sabbatical leaves for going for Ph.D./PG research.
- Providing on-duty leaves to faculty and staff for attending workshops, seminars and national and international conferences.
- Staff training programmes for upgrading skills – FDP, TTT, TAP
- Providing well-equipped library.
- Motivating faculty to take membership of professional bodies
- Organizing English proficiency and communication skill training for selected staff as per need.

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?

Institute strives to motivate and empower the faculty to create sense of responsibility and awareness in the teaching-learning processes by:

- Sponsoring faculty to attend various programmes like National/International conferences, workshops, STTPs and FDPs carried out at different Institutes.
- Organizing various motivational programmes
- Conduct many health-awareness related programmes.
- Sponsoring faculty for higher education.
- Belonging-ness amongst faculty members by involving them in various committees.

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.

STIC has designed the online self-appraisal form for the teaching faculty. This form consists of many parameters out of which few are listed below:

- Teaching-learning process evaluation
- Research contribution in terms of projects, publications and guidance to students
- Contribution for the benefits of students and institute
- Contribution towards extra-curricular and co-curricular activities
- Specific duties / tasks assigned by HoDs
- Awards/rewards obtained by the faculty and staff
- Execution of exam duties assigned by the university
- Industrial liasoning and projects
- Community service and extension activities

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?

STIC has online appraisal system which is reviewed by the management at the end of every academic year. The parameters discussed above are reviewed, and specific suggestions are given depending on the data provided in the self-appraisal form. The most important outcome of this review is on deciding regularizing the staff, the regular increments and promotions of the staff. Also, the aim is to assess staff's strength and weaknesses identified through various information sources. Accordingly suggestions are given to concern staff for the further improvement.

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?

Following staff welfare schemes are available for teaching and non-teaching staff:

- Group insurance scheme

- Accidental insurance
- Staff quarters
- Free medical treatment
- Registration fee for FDP programs
- Maternity leaves are provided as per the government and university rules (Six months with fullpay).
- Sabbatical leaves are granted to more than 10% staff for the higher studies
- Employee Provident Fund (EPF) with 100% gratuity for all staff

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, eminent faculty in the institute in following ways:

- Special hill-station allowance is provided
- Timely promotions for the eligible candidates
- Providing facilities such as staff quarters and free medical benefits
- Encouragement and financial support for research activities.
- Transparent academic and administrative culture.

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 institute has a well-defined procedure to monitor effective and efficient utilization of available resources for infrastructure, development and teaching learning process. The financial resolutions of the institute are monitored and recommended by campus committee members. Finally, there aretrustees of the society who approve and may guide with regard to the financial transaction of theinstitute. In addition to this, the account of each financial year of the institute is audited by a chartered accountant. Thus, the utilization of financial resources is monitored at several levels.

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.

Institute implements two level audit mechanisms as follows

1) Internal audit
2) Statutory (External) audit
The last audit was done for the year 2015-16 & statutory audit was completed. There are no major audit objections in the audit report.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

The major source of institutional receipts is from the fees of students. The deficit, if any is managed by taking advance from the central office of STES society. Audited

income and expenditure statements are available in office and summary of it is given in the following table 6.4.3.

Table 6.4.3 Audited income and expenditure statement

Details	2015-16	2014-15	2013-14	2012-13
Income (In Rs.)	279932878/-	531993140/-	204835882/-	184104028/-
Academic Expenses (In Rs.)	134836633/-	213809641/-	153957375/-	126094037/-
Administrative Expenses (In Rs.)	165164637/-	196058463/-	106463460/-	103014541/-

6.4.4   Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Sr. No.	Name of the faculty	Funding agency	Year	Amount (In Rs.)	Project Name
1	Ms. Anima Rathod	BCUD	2012-14	100000	A critical analysis of Employee Engagement Initiatives in select Organised Retails sectors of Pune city
2	Mr. Amar Narkhede & Mr. Prashant B. Patil	BCUD	2016-18	110000	Role of Private equity firms in promoting entrepreneurship through MSME funding in Pune region.

100% grant is received from University and utilized as per SPPU norms.

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?**

Institute has Academic Monitoring Committee (AMC) since its establishment. However the IQAC is being constituted which will look into the following points.

1. Mentoring the students.
2. Developing infrastructure.

3. Conducting internal assessment.
4. Preparation of academic plan and calendar.
5. Collection of feedback from students.
6. Execution and monitoring of academic plan and activities.

Table 6.5.1 Academic Monitoring Committee (AMC)

Sr. No.	Name of the Member	Designation
1	Dr. C. B. Bangal, Principal	Chairman
2	Prof. M.G. Bhat, Dean Engineering (STES)	Management Representative
3.	Prof. S. B. Pharkute	Management Representative
4.	Dr. M. V. Nagarhalli, HOD Mech	Director

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

The IQAC is newly constituted, but AMC of the institute is working on the same line. Almost all decisions taken by the AMC are generally accepted by the institutional management. Following are the some of the important decisions taken by AMC during recent years.

Introduction of TG scheme –

- Addition of self-learning session and extra inputs scheme for weak students.
- Modernization of the classrooms with LCD and internet.
- Introduced online feedback system.
- Implementation of Wi-Fi facility in the campus.
- The introduction of ERP, GEMS, K-Points, Zoom, Pro-quest.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

No, IQAC is yet to be constituted.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The AMC of the institute is working on the same line of IQAC. For the effective functioning of AMC, the students and alumni contribute as follows:
- Classroom feedback.
- Library feedback.
- Feedback about Teaching & Non-teaching staff.

In addition to this, regular feedback from students through the suggestions is received in the suggestion boxes. Alumni visit the institute during alumni meet and technical programs. At this time, feedback is collected from the alumni. The AMC receives the statistical report based on the feedback and uses the information appropriately.

> **e. How does the IQAC communicate and engage staff from different constituents of the institution?**

AMC of the institute is working the same line. All the HoDs are the part of academic administration of institute. This ensures that all the faculty members of the institute are involved directly/indirectly in the effective functioning of AMC. Faculty and staff of the institute are communicated through the heads of respective units. AMC members also interact with all staff member during the academic year.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

Yes, the institution has framed AMC for the quality assurance of the academic and administrative activities. Meetings are regularly conducted for review of the same.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

The staff members are encouraged to attend training programmes/workshops to ensure quality enhancement. The institute has hired the services of professional trainers like 'Wren and Packers'. The staff is trained to institute level and department level training programs for effective implementation of the procedures.

The programs aim for:

1. Quality assurance training for Principals and HODs.
2. Quality assurance training for faculty members.
3. Upgrading the skills and knowledge of the supporting staff.
4. Awareness of quality assurance procedures and documentations.

6.5.4 Does the institution undertake Academic Audit or another external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

The academic progress of the institute is continually monitored by the AMC. The Principal communicates in this regards during the regular meetings. The HoDs review the various academic activities during the weekly departmental meetings and guide the staff members accordingly. Submission of self-appraisal reports and annual activity reports regularly is mandatory for each and every staff member of the institute.

The institute undertakes internal academic audit in following matters:

1. Verification of teaching plan and record of each faculty is carried out by AMC members periodically. This ensures audit of all aspects of teaching-learning process.
2. A separate audit about coverage of syllabus is conducted by every department every month.
3. Every department submits the report of academic activities to the AMC at the end of each semester.

Outcome:

1. In case of discrepancies, suggestions are given to the respective faculty for improvement.
2. If the rate of completion of syllabus per month is less, then, extra lectures are suggested to the respective faculty which are to be taken after college-hours.
3. Departmental library books, faculty members are updated as per the requirement.

6.5.5: How is the internal quality assurance mechanism aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

1) AMC has ensured that internal quality policies will not conflict with external quality assurance agency policies.
2) Continuous assessment scheme is an internal mechanism to generate term work marks of a student. Term work marks are included in the examination results by the university.
3) AMC and the HoDs propose required infrastructure as per the AICTE norms. Infrastructure development is done accordingly.
4) The AMC receives the faculty requirement data from the department heads as per the university and AICTE norms. The faculty is recruited accordingly.
5) The librarian and faculty from each department and AMC initiate the purchase of library books and journal purchases according to the AICTE norms.
6) Infrastructure and faculty status in the institute is peer reviewed by the Local Inspection Committee (LIC) of the university. Suggestions of the LIC are utilized by the AMC.

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?

AMC takes a continuous review of teaching learning process in the institute. It mainly comprises of Principal, Dean, Heads of the department and departmental coordinators. Before commencement of the term, academic calendar is prepared, and all the coordinators ensure that the activities are conducted as per schedule. This committee monitors class wise, faculty wise and subject wise instruction delivery.

Following mechanisms are used to review continuously the teaching-learning process.

1. Audit of the teaching plans from AMC.

2. Mid-semester feedback about a teacher from the students.

3. Departmental audit about syllabus coverage every month.

4. Mentoring the students every fortnight.

Outcome:

1. The quality of academic processes in the institute has improved.

2. Individual faculty gets inputs to improve his/her performance and hence contribute to the teaching-learning quality.

3. Individual attention to students through mentoring contributes to improvement in students' performance.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms, and outcomes to the various internal and external stakeholders? Any other relevant information regarding Governance Leadership and Management, which the institute would like to include.

Our institution communicates its quality assurance policies, mechanisms and outcomes through the Vision, Mission statement, parent meetings, alumni meets and discussions with employers and through the institute website.

The institution communicates its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders as follows:

1. Vision, Mission, Quality Assurance policies are displayed on the website of the institution.

2. Vision, Mission and Quality Assurance mechanisms are printed in the TG and attendance records.

3. Vision and Mission statements are displayed on boards at prominent places on campus.

4. Vision, Mission and quality assurance mechanisms are included in the information brochure.

5. Quality Assurance mechanisms and outcomes are informed to all during students induction program, students mentoring sessions, parents meetings, alumni meetings Principal's address at seminars/ conferences/interactive sessions with stakeholders, etc.

Any other information the institute wishes to give?

The institute is a pioneering and leading institute in the SPPU and in Maharashtra state. It has maintained a high reputation for quality of teaching learning processes. Currently, it has undertaken a venture named as 'KG to PG through PBL model to enhance the industry-institute interaction and employability.

CRITERION VII: INNOVATION AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the College conduct the green audit of its campus?

Faculty, staff and students of RMD STIC do take initiative for creating environmental consciousness. Various steps have been taken to make the entire campus clean and green and to nurture the eco-friendly environment in the institute. Every care is taken to ensure that carbon emissions are kept to the lowest level. Plantations, lawns have been specially developed and are maintained most green. Environmental awareness amongst students is inculcated through various events like 'Save earth save water", "Swachchha Bharat Abhiyan" and "better energy conservation practices".

Green Audit: The institute has formed a Green Audit Team and has been carrying out the audit since 2014. Although this campus is located away from city pollution, the green audit serves two purposes, one to know the actual status of the campus and second to sensitize the people on the campus about the environment issues.

Energy Audit: In 2016, our institute conducted electrical energy audit. The auditor's suggestion regarding reduction in electricity consumption was implemented in our campus. Henceforth, the institute has planned to conduct energy audits periodically.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

1) **Energy Conservation:**
   - Our endeavor to minimize electrical energy consumption helps in overall energy preservation. Instructional notices are put up near the switchboards in all laboratories to increase awareness of energy conservation.

   - Use of Tube lights with electronic chokes is promoted. The conventional magnetic ballast of tube lights has been replaced by electronic ballast, to reduce the electricity consumption. Changing over from tube lights/CFL to LEDs is also planned in future.

   - Inverters of UPS system are switched off after office hours, thereby saving energy. All the computers have LCD monitors in the entire campus that are advantageous for energy conservation over CRT based monitors which consume more energy.

2) **Use of renewable energy:**

Institute has installed a solar power system of 50 kVA capacity on the Campus and for next two years, 50kVA each solar power systems are to be installed in three phases.

3) **Water Harvesting:**

The institute has implemented rainwater harvesting, which has saved significant amount of water expenses. This system recharges the institute bore well.

4) Efforts for Carbon Neutrality:

Sufficient plantation on the campus has helped to increase green cover and keep the campus pollution free.

- Organic waste, generated from garden, is converted into compost using composting machine, instead of burning. Compost, so produced, is used as a fertilizer for the campus garden, thereby increasing re-utilization.
- Waste paper generated is sold to vendor for recycling. Paper usage is minimized by printing on both sides of papers. Inter department correspondence is made through e-mails.
- Paperless governance is carried out through GEMS online, the ERP platform. All types of leaves by faculty and staff are submitted through GEMS only, and use of paper is completely eliminated for that purpose.
- Car-pooling and public transport is used by some faculty and students of RMD STIC.
- Faculty and students are made aware of various measures to reduce carbon footprint through posters advocating the following: driving a fuel-efficient vehicle, printing only when necessary, switching off electrical appliances when not in use, reducing use of plastic etc.

5) Waste management:

Daily garbage is collected by housekeeping personnel and handed over to Municipal garbage vehicle. All waste water lines from toilets; bathrooms etc. are connected to Municipal drainage mains. Waste material like plastic, papers, etc. are collected and sold out to scrap vendor from time to time.

6) E-waste management:

The e-wastes are disposed of periodically through a professional e-scrap vendor.

7) Hazardous Waste Management:

Liquid chemical wastes generated from chemistry laboratory and environmental laboratory are diluted/ neutralized and then discharged.

7.2. Innovations:

7.2.1   Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the institute.

1) Innovative practices in academics:
   A. Cyber Cell:

- To create awareness about Cyber crimes and cyber security amongst the faculties and the students. Cyber cell creates awareness on cyber pornography, online shopping frauds, email spoofing, spamming, bombing, credit card frauds, computer security issues, romance/dating scam, banking/credit card related

crimes, identity thefts, safety in banking and social networking site, safety tips for mobile phone users , cyber stalking etc.

- 4 workshops were conducted by the cell at various schools and colleges within Pune. These workshops received an overwhelming response from the participants.

B. Mentoring:

Special efforts have been taken for guiding students in the mentoring sessions. Topics like goal setting, engineering careers, placement opportunities, study planning, career development, professional practices and personality development are discussed with students during mentoring sessions along with screening of motivational videos.

C. Other Innovative practices in academics:

- Introduced 'Train the Trainer' program where new faculty are trained by senior faculty.
- Design and Implementation of Student Training Programs, Value Added programs for all the undergraduate students to enhance the employability skills
- Increased number of MoU's with industry for enhancing industry – institute interaction.
- Biometric attendance monitoring system for faculty and staff.
- Wi-Fi facility is available in the entire campus.
- Introduction of e-examination portal for students for online examination practice.
- Appointment of Chief Examination Officer for execution of various University examinations.
- Organization of national level annual cultural event 'Sinhgad Karandak' where students can get awareness about the diverse cultures in India and can enjoy the inclusiveness in diversity.
- Organization of national level technical event 'Techtonic' where students across the country can participate in various technical contests and enhance their technical skills.

- Project Based Learning (PBL) methodology has been adopted under which the students are assigned live projects and they learn the complete process of software/system development life cycle.

- K-point software developed for students to give video expert lectures of department faculty members.

2) Innovative practices in administration:

A. Incorporation of ERP system (GEMS):

ERP system called GEMS is used for automation of various processes. The staff can upload profile, manage courses taught, upload lesson plans, share study material with students. The ERP system improves the efficiency and productivity of teaching as well as administrative staff. It helps the faculty and office-staff to maintain and review academic status of students. The students use ERP to store their personal details, for course registration and to give faculty feedback. Library catalogues, quality policy,

quality manual, various academic and non-academic processes and forms are made available through GEMS.

B. **Google groups** :

- Faster, effective and paperless communication with staff is facilitated through Google groups. Official e-mail id is provided to the faculty, staff and students with domain name *@sinhgad.edu*
- Assignments, surveys, student information regarding seminars and project topics, electives etc. are shared/ updated through Google forms.

7.3   Best Practices

7.3.1 Elaborate on any two best practices which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the institute.

A) Best Practice No.1: Integration ICT in Institutional Practices

Goal: For achieving effective learning by students.

Context: Current generation of students want learning systems to be more open, flexible, and customized to what they expect. Using ICT in education is an effective way to meet their expectations attributed to technological advances**.**

Process:

- Incorporation of ERP system (GEMS):

ERP system called GEMS is used for automation of various processes. The staff can upload profile, manage courses taught, upload lesson plans, share study material with students. The ERP system improves the efficiency and productivity of teaching as well as administrative staff. It helps the faculty and office-staff to maintain and review academic status of students. The students use ERP to store their personal details, for course registration and to give faculty feedback. Library catalogues, quality policy, quality manual, various academic and non-academic processes and forms are made available through GEMS.

- Modernization of the classrooms with LCD and internet.
- Availability of Digital Library and access to various libraries & e-resources
- Availability of Wi-Fi facility in the campus.
- The introduction of K-Points, Zoom, Pro-quest.

B) Best Practice No.2: Comprehensive Student Training Program (STP)

a. **Goal:** Development of core engineering aptitude among students.
b. **Context:** STP involves the provision of special training over a wide spectrum of attributes an engineer is supposed to possess. The whole training is subdivided into five phases in five semesters. Curricula for these STP phases

have been designed quite thoughtfully and are reviewed and revised suitably from time to time.

c. **Process:** Progressive stages of STP constitute the following:

STP I: This module consists of following:

Module	Details of Activity	Suggestions / Activity
01	Personal and Career Goal Setting	Cross introduction, with the help of drawing- no words, numbers. Video-SMART goals
02	SWOT Analysis	Video, Carry out personal SWOT using colored cards-Green, Black, Yellow and red
03	Behavioral Skills	Attitude measurement test
04	Public Speaking	Show video and identify Do's and Don'ts
05	Presentation Skills	Body language and gestures to be taken care of
06	Resume Writing	Show bad 2/3 resume, actual resume writing
07	Listening Skills	BEC(Business English Communication) listening exercise with CD
08	Group Discussion	Identify topics
09	Report Writing	Topics
10	Letter / Application Writing	Show Sample bad emails and then provide Do's and don'ts

STP II: Covers following aspects

Module	Details of Activity	Suggestions / Activity
01	Listening Skills	1:Chinese Whispers 2:Audio Activity 3:Please Pay Attention 4:Story Telling 5:Audio Activity (Travelling Abroad) 6:Audio Activity (Going to the Cinema)
02	Reading Skills	1:Fluency Developer Activity 2:Summarizing Activity 3:Word Color Conflict 4:Punctuation Activity 5:Read and Summarize Activity 6:Comprehension Activity

03	Writing Skills	1:Job Ad Worksheet 2:Extempore 3:Guess the Movie Name 4:Group Verbal Presentation 5:Image Based Activity
04	Speaking Skills	1:Role Plays 2:Sentence Making 3:Essay Writing 4:Letter Writing 5:Report Writing 6:Resume Writing

STP III covers the following:

- Various sessions have been planned and implemented for various technical subjects like Object Oriented Paradigm, problems on Data Structures, Computer Organization/ Architecture and Operating System Administration, Data Structure and Algorithm, Object oriented Programming. Etc.

- 'Aptitude Test Series' has been conducted to assess the problem solving skills of students based on topics such as Arithmetic, Algebra, Set theory, Relations & Mappings, Permutations and Combinations Probability.

- Training on technical fundamentals has been provided to enhance the employability, and to prepare the students for entrepreneurship and to motivate them for higher education.

STP IV in Semester VI

1. Research Component: in the form of writing of a review paper.

a) This activity, to be undertaken by the student individually, should be coupled with the seminar activity by the departments who have seminar as a component in their third-year semester II syllabus. If seminar component is absent in the syllabus in TE II, this activity should be undertaken independently.

b) To educate the students, expert in-house & / external faculty with Ph.D. should deliver lectures on Research Methodology. 3 sessions of 2 hours each (1 session / week) are to be conducted by the said faculty. Specific attention is to be given to literature review, determination of gap, setting of aim and objectives, selection of appropriate methodology and technical writing. Delivery of the lecture is in line with the standard presentation, which will be provided by the steering committee.

c) The guide assists the students with a reading of published article, review of all such published articles, determination of gaps in the area. The guide also assists the student with technical writing of the pape.

d) Per guide, 4-8 students are allotted.

e) At the end of the semester, the student has to submit the review paper. The paper should include following sections: introduction, background, literature review and

summary. The Literature review section is of minimum 3, open access, published articles from science direct.

f) Based on the quality of the paper, the guide suggests whether to submit the paper to a conference / journal for publishing.

Internship component as a part of STP

a) A student can either search for an internship on own / seek help from the guide assigned for research component. In either case, the guide is kept in the loop as well as takes advice from the guide for internship component. After completion of the internship, internship report needs to be submitted by the student.

b) For MBA students, internship programme is organized at the end of SEM –II during summer vacations after their SPPU final examination. The students get exposure to the industrial projects and this exercise will enhance their problem solving ability and make them ready for the industry to face new challenges of corporate life.

c) Internship (Live Industry Projects) is provided to MCA students during the fifth semester of their course. The duration of Internship is around 6 months.

d) We have also planned internship programme for B.E students to give them exposure at corporate level. This is to be implemented from 2016-17.

2. **Guest lecturers to be organized under STP.**
    2.1.   Under the STP, every department should organize guest lectures.

    2.2.   These lectures should be scheduled in following semesters:

    - SE Sem I & SE Sem II
    - TE Sem I
    - BE Sem I

    2.3.   Per semester, per month, 1 lecture should be organized.

3. **Pre-placement Training, under STP, to be conducted for BE students**

    3.1.   Training to be conducted for all BE students
    3.2.   Training to be of 10 hours, spread over 2 days, 5 hours/day
    3.3.   Training to be provided to a class of 60 students
    3.4.   Training to be hands on and would prepare students for GD, Personal Interview and also boost their confidence.
    3.5.   Training would be provided by expert trainers.

4. **Placement to be improved**

    4.1.   Every institute has submitted, department wise, list of top three companies that visit for recruitment. Similarly, a list of top three dream companies have been received, department wise.

4.2.   At institute level, discussions should be initiated with the top three companies that visit for recruitment. These companies should be invited to the campus for following possible banners:

- Guest lectures / seminars,
- Projects, and
- In-plant training of recruited students at Sinhgad Institutes.

4.3.   Feedback should be taken from BE (Semester I) students at every institute to find out the dream companies for recruitment. Also, feedback should be taken from these students to improve the placement activity. At institute level, discussions should be initiated with the dream companies (listed by the department and the students). These companies should be invited to the campus under different banners and relations established so that in near future they start recruiting Sinhgad students. Possible banners are:

- Guest lectures / seminars,
- Projects, and
- Techfest.

STP V: Semester VII this phase covers

1. Interview Preparation
   - The practice of Group Discussion and Personal Interview.
   - Quantitative Aptitude and Logical Reasoning Tests.
   - The adaptive test developed by experts from MIT, Harvard, IIITs and IIMs.
   - Most preferred job test in India.

2. Assessment Modules
   - Mandatory modules: English, Logic, Quantitative, Personality.
   - Optional modules: Attention to detail, Excel, Typing, Data Interpretation, Behavioral Assessment, GK, Computer Literacy, CP, Java, C++, Unix, SQL, Domain Specific.

Feedback provided on following aspects:

1. National comparison
2. Sub-modular grades
3. How to improve
4. Test time management
5. Study schedule
6. Job match analysis
7. Personality analysis.

NOTE:

1. Every STP stage except V has one AMCAT Test.
2. In STP III, 6 numbers of QA/LR tests are given by each student.

Outcome: Outcome of this huge exercise has been enormous. The performance of students has significantly improved in both employability skills as well as the entrepreneurship skills.

Department of Mechanical Engineering
Evaluative Report of the Department

1. Name of the department: Mechanical Engineering

2. Year of Establishment: 2011

3. Names of Programmes / Courses offered (UG, PG)

Course offered	Name of the course	Specialization	Year of Establishment	Intake
U.G.	BE(1st shift)	Mechanical Engineering	2011-12	60
	BE(1st shift)	Mechanical Engineering	2012-13	60
	BE(2nd shift)	Mechanical Engineering		60
	BE(1st shift)	Mechanical Engineering	2013-14	60
	BE(2nd shift)	Mechanical Engineering		60
P.G.	ME	Mech-Design Engineering	2012-13	24

4. Names of Interdisciplinary courses and the departments/units involved:

Following Interdisciplinary courses are involved in curriculum of programs:

Sr. No.	Name of Interdisciplinary course	Department
1	Electronics and Electrical Engineering	Electrical Engineering & Electronics and Telecommunication
2	Engineering Mathematics-III	Engineering Science

5. Annual/ semester/choice based credit system (programme wise):

Sr. No.	Course offered	Programme	Duration	System	Evaluation
1	U.G.	Mechanical Engineering	4 Years	8 Semester	Marks/Credit
2	P.G.	Design Engineering	2 Years	4 Semester	Credit

6. Participation of the department in the courses offered by other departments:

Sr. No.	Courses offered	Department
1	Basic Mechanical Engineering	First Year
2	Engineering Graphics-I&II	

7. Courses in collaboration with other universities, industries, foreign Institutions, etc. Nil

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts

For Undergraduate Programme

	Sanctioned	Filled
Professors	5	1
Associate Professors	10	0
Asst. Professors	33	47
Total	48	48

10. Faculty profile with name, qualification, designation and specialization.

Sr. No.	Name	Designation	Qualific-ation	Specialization	Exp. In Yrs.	Ph.D. Students guided
1	Dr. M. V. Nagarhalli	Prof. & Head of Dept.	Ph.D.	Mechanical	32	1
			M. Tech	Thermal & Fluids Engg.		
2	Mr. S. U. Belgamwar	Asst. Prof.	M.E.	Manufacturing	20	--
3	Mr. N. D. Pagar	Asst. Prof.	M.E.	Machine Design	13	--
4	Mr. M. L. Thorat	Asst. Prof.	M.Tech	CAD/CAM	10	--
5	Mr. P. N. Deshmukh	Asst. Prof.	M.E.	Production	9	--
6	Mr. S. S. Khandagale	Asst. Prof.	M.E.	Heat Power	8	--
7	Mr. A. K. Mahindrakar	Asst. Prof.	M.E.	Mechatronics	7	--
8	Mrs. S. U. Ratnaparkhi	Asst. Prof.	M.E.	Manufacturing	7	--
9	Mr. H. H. Kadam	Asst. Prof.	M.E.	Heat Power	7	--
10	Mrs. A. M. Joshi	Asst. Prof.	M.E.	Heat Power	6	--
11	Mr. R. P. Chavan	Asst. Prof.	M. Tech	Turbomachines	6	--
12	Mr. S. T. Jagadale	Asst. Prof.	M. Tech	Machine Design	5	--
13	Mr. Y. L. Maske	Asst. Prof.	M.E.	Mechanical Design	5	--
14	Mrs. Ruchika Hire	Asst. Prof.	M. Tech	Manufacturing	4	--
15	Mr. R. S. Deshmukh	Asst. Prof.	M.E.	Heat Power	4	

16	Mr. Y. D. Sonawane	Asst. Prof.	M.Tech	Automobile	3	--
17	Mr. P. S. Desle	Asst. Prof.	M.Tech	CAD/CAM	3	--
18	Mr. R. S. Varier	Asst. Prof.	M. Tech	Manufacturing	3	--
19	Mrs. J. D. Rane	Asst. Prof.	M.E.	Machine Design	3	--
20	Mr. R. R. Ligade	Asst. Prof.	M.E.	Machine Design	3	--
21	Mr. M. S. Pol	Asst. Prof.	M. Tech	Machine Design	3	--
22	Mr. M. S. Swami	Asst. Prof.	M.E.	Machine Design	3	--
23	Mr. S. R. Wanjari	Asst. Prof.	M. Tech	Automobile	3	--
24	Mr. S. J. Dhamde	Asst. Prof.	M. Tech	Machine Design	3	--
25	Mr. N. S. Kulkarni	Asst. Prof.	M.E.	CAAD	2	--
26	Mr. S. V. Dubal	Asst. Prof.	M.E.	Machine Design	3	--
27	Mr. S. U. Jagtap	Asst. Prof.	M.E.	Machine Design	3	--
28	Mr. Sagar Kalukhe	Asst. Prof.	M. Tech	Thermal	2	--
29	Mr. Uday Hadwale	Asst. Prof.	M.E.	Machine Design	2	--
30	Mr. M. H. Borate	Asst. Prof.	M. Tech	Machine Design	2	--
31	Mr. N. V. Babar	Asst. Prof.	M. Tech	Thermal	2	--
32	Mr. S. B. Patil	Asst. Prof.	M.E.	Machine Design	1	--
33	Mr. D. H. Karad	Asst. Prof.	M. Tech	Thermal Science	1	--
34	Mr. N. A. Faddas	Asst. Prof.	M.E.	Heat Power	4.5	--
35	Mr. R. S. Borkar	Asst. Prof.	M.Tech	Thermal	4.5	--
36	Mr. A. A. Pawar	Asst. Prof.	M.E.	Heat Power	4	--
37	Mr. D. L Kolekar	Asst. Prof.	M.E.	Maxhine Design	4	--
38	Mr. D. P. Sonoawane	Asst. Prof.	M.E.	Production	4	--
39	Mr. V. V. Khalipe	Asst. Prof.	M.E.	Heat Power	3	--
40	Mr. A. P. Shastri	Asst. Prof.	M.E.	Manufacturing	3	--
41	Ms. P. J. Pawar	Asst. Prof.	M.E.	Heat Power	0	--

42	Mr. R. R. Pawar	Asst. Prof.	M.E.	Heat Power	0	--
43	Mr. V. R. Vakode	Asst. Prof.	M.E.	Automotive	0	--
44	Mr. S. B. Mali	Asst. Prof.	M.E.	Heat Power	6	--
45	Mr. G. S. Joshi	Asst. Prof.	M.E.	Mechatronics	9	--
46	Mr. K. M. Chhajed	Asst. Prof.	M.E.	Heat Power	5	--
47	Mr. S. K. Mangalvedhe	Asst. Prof.	M.Tech	Manufacturing	3.5	--
48	Mr. P.S. Kulkarni	Asst. Prof.	M.E.	Design	2	--

11. List of Senior Visiting Faculty: Nil

12. Percentage of Lectures delivered and practical classes handled [Program wise] by temporary Faculty: Nil

13 Student Teacher ratios:

Year	Students' Intake	Teacher(s)	STR
2016-17	**900**	**48**	**18.75:1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Type of Staff	Filled	Sanctioned
Technical Assistant	2	2
Lab Assistant	1	1
Workshop staff	3	3
Administrative Staff	1	1

15. Qualification of teaching faculty

Sr. No	Qualification	No of Teaching faculty
1	Ph.D.	1
2	Ph.D. Pursuing	6
3	P.G.	48

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

Sr. No.	Purpose of Funding	Funding Agency	Funding Received in Rs.
1	For Conduction of State Level workshop on "Recent Trends in Robotics and Automation"	Board of College and University Development, Savitribai Phule University Pune	80,000/-

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. a) Publications per faculty:
a) Publication per faculty
* Number of papers published in peer-reviewed journals (national /international) by faculty and students

Sr. No.	Faculty Name	No. of paper published in peer review journals faculty/stude-nts	No. of publication listed in International/ National conference	Books edited
1	Dr. M. V. Nagarhalli	5	--	--
2	Mr. N.D. Pagar	5	2	--
3	Mr. P. N. Deshmukh	4	--	--
4	Mr. M. L.Thorat	1	2	--
5	Mr. A. K. Mahindrakar	3	--	1
6	Mr. S.U. Belgamwar	2	--	--
7	Mr. P. S. Desle	4	--	--
8	Ms. S. U. Ratnaparkhi	3	--	--
9	Mr. Y. L. Maske	2	--	--
10	Ms. J. D. Rane	1	1	--
11	Mr. S. J. Dhamade	3	2	--
12	Mr. S.V. Dubal	2	--	--
13	Mr. R.R. Ligade	2	--	--
14	Mr. N. V. Babar	1	--	--
15	Mr. U. R. Hadwale	--	1	--
16	Mr. R. P. Chavan	1	--	--
17	Mr. V. R. Vakode	1	--	--
18	Mr. H.H Kadam	1	--	--
	Total	41	8	1

19. b. Books and Monographs Published

Sr. No.	Name of the Faculty	Name of the Book	Name of the Publisher	Year of publication
1	Mr. Sumit Dubal	Hydraulics and Pnuematics	Success Publications	2016
2	Mr. Yogesh Maske	Design, Optimization and Analysis of Rocker-Bogie Stair Climbing Robot Paperback	Lambert Academic Publishing	2015
3	Mr. Ashwinkumar K. Mahindrakar	Mechatronics for everyone	Oxford University Press	2015
4	Mr. Yogesh Maske	VCR Technology in Si Engine with LPG	Lambert Academic Publishing	2012

20. Areas of consultancy and income generated

Sr. No.	A.Y.	Name of Area	Name of consultancy	Amount. Rs.
1	2015-16	Learning of Mechatronics	SEED Infotech	2,10,000/-

21. Faculty as members in
a)National committees b) International Committees c) Editorial Board- Nil

22. Student's projects

Sr. No.	Description	2017-18	2016-17	2015-16	2014-15
(a)	Percentage of students who have done in-house projects including interdepartmental/ programme	69.02	47.77	61.01	58.82
(b)	Percentage of students placed for projects in organizations outside the institution	30.98	52.23	38.98	41.17

23. Awards/ Recognitions received by faculty and students

Sr. No.	Academic Year	Name of Student	Details of Awards / Recognitions	Organization / Event
1	2017-2018	Siddhesh Sudhir Pisal	Second in Inter Collegiate Judo Tournament	Pune City Zonal Sports Committee - Judo
2		Rahul Ande	Gold Medal	28th National World Funakoshi Shotokan KARATE Competition
3		Tornado motor Sports (Team)	Got 31st rank out of 112 Teams	SUPRA SAE 2017
1	2016-2017	Shubham Pardeshi & Group (4 Students)	Patent Filed	Automated Irrigation And Fertigation With Disease Monitoring System.
2		Abhishek Joshi	Patent Filed	Differential Bypass Gear Assembly
3		Abhilesh Mahajan	Won Second prize	University Fencing Competition
4		RMDSTIC Boy's Football Team	Runner Up Team	Sinhgad Karandak
5		Chetan Patil	2016 Student Formula Japan, SAE Japan	ECOPA, Shizuoka perfecture, Japan
6		Deoraj Asane	2016 Student Formula Japan, SAE Japan	ECOPA, Shizuoka perfecture, Japan

7	2016-2017	Prasanna Revenkar	2016 Student Formula Japan, SAE Japan	ECOPA, Shizuoka perfecture, Japan
8		Shubham Gaikwad	2016 Student Formula Japan, SAE Japan	ECOPA, Shizuoka perfecture, Japan
9		Saumitra Deshpande	CADMANIA	NICAD - National Institute of Computer Aided Drawing, VIIT, Pune.
10		Ajit Pawar	CNC Lathe, MINDSPARK'16	College of Engineering, Pune.
11		Ganesh Pokale	CNC Lathe, MINDSPARK'16	College of Engineering, Pune.
12		Kiran Panhalkar	CNC Lathe, MINDSPARK'16	College of Engineering, Pune.
13		Nitesh Pawar	CNC Lathe, MINDSPARK'16	College of Engineering, Pune.
14		Rushikesh Pachupate	CNC Lathe, MINDSPARK'16	College of Engineering, Pune.
15		Sumit Pachupate	CNC Lathe, MINDSPARK'16	College of Engineering, Pune.
16		Niteesh Pawar	Code Junkie, MINDSPARK'16	College of Engineering, Pune.
17		Priyardarshani Wanjale	Contraption, CREDENZ'16.	Pune Institute of Computer Technology

18		Chetan C. Channe	Industrial Training Course	MAHAGENCO, Chandrapur Super Thermal Power Station
19	2016-2017	Karan Gundre	Internship	SVP Mining Technologies Pvt. Ltd. Raipur.
20		Siddharth Joshi	Internship	Precision Automation & Robotics India Ltd., Satara.
21		Viraj Shirole	Internship	IAC International Automotive India Pvt. Ltd., Chakan, Pune.
22		Krishnasingh Bisen	Jishin'16	Bharti Vidyapeeth's College of Engineering for Women, Pune.
23		Krishna Bisen	MESA - Mechanical Engineering Students Association.	JSPM, Narhe, Pune
24		Pratik Ashok Ugale	MIT TechnoGenesis - 2016	MAEER'S MIT College of Engineering,Pune
25		Sandeep Anil Patil	MIT TechnoGenesis - 2016	MAEER'S MIT College of Engineering,Pune
26		Sudarshan Dinkar Wagh	MIT TechnoGenesis - 2016	MAEER'S MIT College of Engineering,Pune

27		Krishna Bisen	PRODZINE 4, A State Level Paper Presentation Competition on Advances in Engineering & Technology.	Sinhgad College of Engineering, Vdgaon(Bk), Pune.
28	2016-2017	Rohan Shinde	PRODZINE 4, A State Level Paper Presentation Competition on Advances in Engineering & Technology.	Sinhgad College of Engineering, Vdgaon(Bk), Pune.
29		Sachin Burute	PRODZINE 4, A State Level Paper Presentation Competition on Advances in Engineering & Technology.	Sinhgad College of Engineering, Vdgaon(Bk), Pune.
30		Sahil Kore	PRODZINE 4, A State Level Paper Presentation Competition on Advances in Engineering & Technology.	Sinhgad College of Engineering, Vdgaon(Bk), Pune.
31		Ajit Pawar	Quadcopter, MINDSPARK'16	College of Engineering, Pune.
32		Kiran Panhalkar	Quadcopter, MINDSPARK'16	College of Engineering, Pune.
33		Rushikesh Pachupate	Quadcopter, MINDSPARK'16	College of Engineering, Pune.

34		Sumit Pachupate	Quadcopter, MINDSPARK'16	College of Engineering, Pune.
35		Mayur Lohakane	Seminar cum practical workshop on "Fibre reinforced Plastics	Global Enterprises & Shree Engineers
36		Rohan Shinde	Seminar cum practical workshop on "Fibre reinforced Plastics	Global Enterprises & Shree Engineers
37		Niteesh Pawar	Technical Aptitude Test, SAEINDIA.	RMD Sinhgad School of Engineering, Pune.
38		Rohan Shinde	Technical Aptitude Test, SAEINDIA.	RMD Sinhgad School of Engineering, Pune.
39		Rushabh Nalawade	Technical Aptitude Test, SAEINDIA.	RMD Sinhgad School of Engineering, Pune.
40		Shreyash Shinde	Technical Aptitude Test, SAEINDIA.	RMD Sinhgad School of Engineering, Pune.
41		Saurabh Shinde	Technical Aptitude Test, SAEINDIA.	RMD Sinhgad School of Engineering, Pune.
42		Vishal Malpure	Technical Aptitude Test, SAEINDIA.	RMD Sinhgad School of Engineering, Pune.
43		Krishna Bisen	Tesla Infinism-16	MAEER'S MIT College of

				Engineering,Pune
44		Priyardarshani Wanjale	Turnament, MINDSPARK'16	College of Engineering, Pune.
45		Vrushali Bhapkar	Turnament, MINDSPARK'16	College of Engineering, Pune.
46		Swapnil Nikam	Vocational Training	Bharat Forge Ltd., Satara.
47		Priyardarshani Wanjale	Wall Street, CREDENZ'16.	Pune Institute of Computer Technology
1		Team EBoosters	Won prize as "The Fastest Car" (Acceleration Test) in Dynamic round.	Eco Kart Season III, BML Munjal University, Delhi in March 2016
2		Team DirtCross	Qualified for Endurance round and dynamic round.	SAEINDIA BAJA 2016, Pithampur.
3		Aniket Satvekar	Drummer-(Certificate of Participation)	Sinhgad Karandak-Aegis Of Rock
4	2015-16	Kiran Sokande	Kabbadi-(Certificate of Participation)	Sinhgad Karandak-Sports
5		Shubham Bhavsar	Photography-(Certificate of Participation)	SSMM PUNE-Youth Cnnect 2016
6		Krishna Singh Bisen	Race to destiny-(Certificate of Participation)	MIT COE-Tesla Infinism-16
7		Krishna Singh Bisen	Sketching-(Certificate of Participation)	ADYPU DYPDC-Automotive Sketching Workshop

8		Madhukar Pujari	Carrom-(Certificate of Participation)	Sinhgad Karandak-Sports
9		Ishwar Patil	Basket Ball-(Certificate of Participation)	
10		Vaibhav Shrirao	Running-(Certificate of Participation)	
11		Suraj Unecha	Lawn Tennis-(Certificate of Participation)	
12		Mayur Lohkene	Fashion Show-(Certificate of Participation)	Sinhgad Karandak
13		Krishna Bisen	ACCLIVITY 2K16	TSSM'S P.V.P.I.T, Bavdhan, Pune.
14		Makarand Patil	ACCLIVITY 2K16	TSSM'S P.V.P.I.T, Bavdhan, Pune.
15		Mayur Lohakane	ASDP - Automotive Skill Development Program	Pimpri Chinchwad College of Engineering, Pune
16	2015-16	Vrunda Magdum	AUTO - Matrix	MAEER'S MIT College of Engineering,Pune
17		Pratik Shingte	Automobile Training Program, & Vehical Maintainance and Daigosis.	Prigma Edutech Services, MIT, Pune
18		Garav Runwal	Dexterity 2K16	Marathwada Mitra Mandal's College of Engineering
19		Ubed Khan	Goethe-Zertifikat A1 [German Exam]	Pune
20		Karan Gundre	Interactive Seminar	PES's Modern

21		Mayur Lohakane	and Industrial Visit,Pune Auto Expo.	College of Engineering
22		Pratik Shingte		
23		Shubham Bhavsar		
24		Vrunda Magdum	Internship	TVS Service Station, Pune.
25		Krishnasingh Bisen	Jishin'16	Bharti Vidyapeeth's College of Engineering for Women, Pune.
26		Aditya kulkarni	Mahindra BAJA SAEINDIA 2016	Mahindra, NATRiP, Pithampur
27		Aditya Modi		
28		Aditya Sinha		
29		Animesh Mazire		
30		Karan Gundre		
31	2015-16	Kshitij Joshi		
32		Mayur Lohakane		Mahindra, NATRiP, Pithampur
33		Mayuresh Vetal	Mahindra BAJA SAEINDIA 2016	
34		Nehal Chaliawala		
35		Nilkanth Borhade		
36		Pratik Shingte		
37		Pratik Wagh		
38		Prujas Cursal		
39		Riteshsingh Kumar		
40		Rohan Rege		Mahindra, NATRiP, Pithampur
41		Satyam Mutha		
42		Saurabh Yadav		
43		Shrihari Khanzode		

44		Shubham Barne		
45		Shubham Bhavsar		
46		Siddharth Dhangare		
47		Tejas Desai		
48		Varsha Kadam		
49		Vikas Paralkar		
50	2015-16	Vikram Wavhal		
51		Krishna Bisen	Mock Placement Event, IMPULSE 2K16	PES's Modern College of Engineering
52		Krishna Bisen	MPULSE 2K16	
53		Garav Runwal	M-Pulse Xtronica 2K16	
54		Abhishek Joshi	National Event Eco Kart 2016	BML Munjal University
55		Aditya Joshi	National Event Eco Kart 2016	
56		Amey Patil	National Event Eco Kart 2016	
57		Sawan Khant	National Event Eco Kart 2016	
58		Shivanand Hegaje	National Event Eco Kart 2016	
59		Shreeansh Mankar	National Event Eco Kart 2016	BML Munjal University
60		Shubham Gaikwad	National Event Eco Kart 2016	
61		Swapnil Mujumale	National Event Eco Kart 2016	
62		Vrunda Magdum	National Event Eco	

			Kart 2016	
63		Parth Ansapurkar	Techfest 2015-16	IIT Bombay.
64		Makarand Patil	TECHNOVISION - 2016	TSSM'S Bhivarabai Sawant College of Engineering & Polytechnic, Narhe, Pune.
65		Sawan Khant	TESLA TechVolution-15	MAEER'S MIT College of Engineering,Pune
66		Aditya kulkarni		
67		Aditya Modi		
68		Aditya Sinha		
69		Animesh Mazire		
70		Karan Gundre		
71		Kshitij Joshi		
72		Mayur Lohakane	Virtual BAJA SAEINDIA 2015	SAEINDIA, Chitkara University, Punjab
73		Mayuresh Vetal		
74		Nehal Chaliawala		
75		Nilkanth Borhade		
76		Pratik Shingte		
77		Pratik Wagh		
78		Pryas Gursal		
79		Riteshsingh Kumar	Virtual BAJA SAEINDIA 2015	SAEINDIA, Chitkara University, Punjab
80		Rohan Rege		
81		Satyam Mutha		
82		Saurabh Yadav		
83		Shrihari Khanzode		

84		Shubham Barne		
85		Shubham Bhavsar		
86		Siddharth Dhangare		
87		Tejas Desai		
88		Varsha Kadam		
89		Vikas Paralkar		
90		Vikram Wavhal		
91		Aditya Joshi		
92		Shivanand Hegaje		
93	2015-16	Shubham Gaikwad	Virtual Round of National Event Eco Kart 2016	BML Munjal
94		Vrunda Magdum		
95		Chetan Channe		
96		Abhishek Joshi		
97		Vishal Malpure		
98		Sawan Khant		
1		Amey Patil	Boxing-2nd Position	Malabar Hill Mahostav
2		Ishwar Patil	Basket Ball-(Certificate of Participation)	Sinhgad Karandak-Sports
3	2014-15	Suraj Unecha	Lawn Tennis- (Certificate of Participation)	Rising Star(Open Tennis Tournament
4		Viraj Deshmukh	Table Tannis-Runner Up	Sinhgad Karandak-Sports
5		Shubham Bhavsar	Snap Photography-Third Rank	Srujan 2014-MAEER's MACS
6		Shubham Bhavsar	Photography-	M-PULSE 2014-

			(Certificate of Participation)	P.E.S MCOE
7		Krishna Bisen	ANVESHAN-2015	NIT, Nagpur
8		Aditya Sinha	Automobile Training Program, Vehicle Overhauling	Prigma Edutech Services , College of Engineering, Pune
9		Karan Gundre		
10		Mayur Lokhande		
11		Ganesh Pokhale	Gravity 2K15	KJ College of Engineering & Management Research, Pune.
12		Aditya Sinha	METEOR	SKN College of Engineering, Pune
13		Suraj Unecha	METEOR	SKN College of Engineering, Pune
14	2014-15	Krishnasingh Bisen	MOCK Placement Event	The GATE ACADEMY, Pune
15		Shubham Zope	TECHSPARK 2014	PES's Modern College of Engineering.
16		Karan Gundre	The Auto Quotient	MIT , Pune.
1		Aditya Sinha	CREDENZ'14 A Technical Renaissance	Pune Institute of Computer Technology
2		Aniket Satvekar	Certificate of visit	Natu La, Located on top of the World, India-China Border
3	2013-14	Rohan Rege	Virscent- 3D Gaming designing workshop	Pune Institute of Computer Technology
4		Rohan Rege	National Level Intercollegiate General Knowledge	Bharati Vidyapeeth Deemed University, Yashawantrao Mohite College,

				Test	Pune
5		Shivanand Hegaje		CREDENZ'13 A Confluence of Technologies	Pune Institute of Computer Technology
6		Shubham Gaikwad		Treasure Hunt, Engineering Today 2013	AISSMS College of Engineering, Pune.
7		Shubham Gaikwad		Model Making, Engineering Today 2013	AISSMS College of Engineering, Pune.
8		Shubham Gaikwad		CESA- Civil Engineering Students Association	RMD Sinhgad School of Engineering, Pune.

23. List of eminent academicians and scientists/ visitors to the department:

The following eminent persons have visited the institute:

Sr. No.	A.Y.	Name	Designation	Organization	Date	Purpose of Visit
1	2017-18	Mr.Girsih Gangapurkar	Director	HHA Global Consultants LLP,Pune.	10/10/2017	Adjunct Lecture on Lean Manufacturing
2		Dr. Dattatray G. Parle	Principal Consultant-Advanced Engineering Services	Infosys Ltd., Pune	05 & 06/10/2017	Adjunct Lecture on Design application of Finite Element Method
1	2016-17	Mr. Arvind Paranjape	Retd. Assistant General Manager	TATA Co. operative power Ltd.	21/03/2017	Invited Talk
2		Mr. Nitin Datar	General Manager	Heat Treatment & Metallurgical Laboratory Carraro India Pvt.Ltd.	20/01/2017	Invited Talk
3		Mr. Girish Poipkar	Director	Horizon Enviornment Engineering Solutions	25/08/2016	Invited Talk

4		Mr. Sushil D. Bhagat	Manager Operations	Innovation (Design Development Analysis & Innovation)	8/07/2016	Invited Talk
5		Mr. Snehassis Dey	Manager-Acedemic Relations	THE GATE ACADAMY	5/07/2016	Invited Talk
1	2015-16	Mr. Rajendra Shende	Director,United Nations Environment Programme (UNEP)	Global Warming & Ozone Retention	30/01/2016	Invited Talk
2		Mr. Arvind Paranjape	Assistant General Manager	TATA Power Co. Ltd.	28/01/2016	Invited Talk
3		Mr. Rajesh Chavan	Director, Jivan Sanjeevani	Personality Development	23/01/2016	Invited Talk
4		Mr. Yogesh N. Raybhoge	Application Engineer, Educate to Automate (ETA)	Introduction: Educate to Automate.	19/01/2016	Invited Talk
5		Mr. Ganesh Darekar	Assistant General Manager	Kores India Pune	14/08/2015	Invited Talk
6		Mr. Vivek Upadhyay	ISUN Soluntions	Introduction of SAP (Systems, Applications, Products in data processing)	10/07/2015	Invited Talk
1	2014-15	Mr. Girish Poipkar	Director	Traits of Enterpreneurship	22/01/2015	Invited Talk
2		Col. Chaterjee	Colonel, Indian Army	Future Opportunities in Army	29/07/2014	Invited Talk
3		Dr. Ram Bhende	--	Lateral Thinking	12/07/2014	Invited Talk
4		Mr. Girish Poipkar	Director	Sheet Metal Process in Industries. Horizon Enviornment Engg. Solution	12/07/2014	Invited Talk

1	2013-14	Mr. Mahesh Nandurkar	Vice Precident, Kirloskar Oil engines Ltd.	Role of Mechanical Engineer in industries. Kirloskar Oil engines Ltd.	30/01/2014	Invited Talk
2		Mr. Bizil Shaikh	Assistant Manager, Mahindra and Mahindra	Product Development	27/12/2013	Invited Talk
3		Mr. Sachin Wagh	Senior Manager	Recent Trends in Automobiles	20/07/2013	Invited Talk
1	2012-13	Dr. S. M. Shendokar	Principal	Bharati Vidyapeeth Lavale, Pune	9/11/2012	Invited Talk

24. Seminars/ Conferences/Workshops organized and the source of funding National

Academic Year	Category	Title	Funding Agency
2016-17	Workshop	Quadcopter – The UAV	Self Sponsored
	Workshop	Industrial Autmation (PLC,SCADA & HMI)	Self Sponsored
2015-16	Workshop	Demonstration of Power Plant and Robotics Software	Self Sponsored
	Workshop	Industrial Autmation (PLC,SCADA & HMI)	Self Sponsored
2014-15	Workshop	Career In Armed Forces	Self Sponsored
	Workshop	Faculty Training Programme on PTC Creo (PRO/ENGG.)	Self Sponsored

25.   Student profile programme/course wise:
A) UG Details
*M=Male F=Female

Academic Year	Applications received	Selected (Total Admissions)	Enrolled		Pass %
			M	F	
2017-18	Admission process in the state is only through CAP and governed by Directorate Technical Education (DTE), Government of Maharashtra.	190	186	4	NA
2016-17		192	187	05	
2015-16		262	255	7	
2014-15		267	254	12	
2013-14		281	224	57	
2012-13		183	167	16	84.13

B) PG Details

Academic Year	Applications received	Selected (Total Admissions)	Enrolled M	Enrolled F	Pass %
2017-18	Admission process in the state is only through CAP and governed by Directorate Technical Education (DTE), Government of Maharashtra.	01	01	0	--
2016-17		01	01	0	--
2015-16		11	9	2	--
2014-15		21	12	9	66.66
2013-14		22	18	4	72.72
2012-13		24	21	3	45.83

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States
2017-2018	100	0.00
2016-2017	98.34	1.65
2015-2016	96.04	3.95
2014-2015	95.75	4.27
2013-2014	94.66	5.33
2012-2013	96.79	3.20

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc?

Academic Year	Number of Students participated in National & State Competitive Examinations					
	GATE	GRE	TOEFL	IELTS	CAT	LOR
2016-17	2	5	4	0	0	4
2015-16	4	13	12	7	0	22
2014-15	0	6	5	2	0	10

29. Student progression

Student progression	Against % enrolled		
	2016-17	2015-16	2014-2015
UG to PG	1.8	1.70	1.54
Employed	18.43	38.61	20.59
Campus selection	12.06	37.61	20.59
Other than campus recruitment	6.38	1	0
Entrepreneurship/Self-employment	Nil	Nil	Nil

30. Details of Infrastructural facilities

a. Library Books Available :

No. of Titles	No. of Volume	Project Reports	
		B.E.	**M.E.**
588	2429+49	67	35

b. Internet Facilities for Staff & Students:

> 70 Mbps Leases line Internet and WiFi facility
> Labs with Internet and Projector Facility
> Number of classrooms = 07
> Number of classrooms PG = 01
> Number of Seminar Rooms = 01
> Number of tutorial rooms = 02

c. Classrooms with Internet and Projector facilities

1) Details of Classrooms

Room Descriptions	Capacity	Rooms equipped with
205	80 students	
206	80 students	
220	70 students	Tubelights, Fans,Curtains, benches, Platform, Green Board, LCD Projector and fitting, Screen
221	70 students	
222	80 students	
223	80 students	

Details of Seminar Hall:

Room Descriptions	Capacity	Rooms equipped with
201	120 students	Tubelights,Fans,Curtains, benches, Platform, Green Board, LCD Projector and fitting, Screen, Drawing boards, Podium, Speakers, PA system,Computer Table

Details of PG Class Rooms:

Room Descriptions	Capacity	Rooms equipped with
512	24 students	Tubelights, Fans, Curtains, benches, Platform, Green Board, LCD Projector and fitting, Screen,

d. Details of Laboratories

Sr. No.	Name of the lab	List of Major Equipments	Total Lab Cost in Rs.	Room No.
1	Theory of Machines	Centrifugal Governer Appratus with Different Attachment, Cam Analysis Appratus, Epicyclic Gear Appratus	4,08,897	215
2	Dynamics of Machinery	Horizontal Balancing Machine FIE make HDM-50, Vibration Lab (Three Frames), Critical Speed of Single Rotor	2,90,975	Basement I
3	Hydraulics and Pneumatics	Advanced Hydraulic Trainer Kit, Advanced Customized Electro-Pneumatic Trainer	3,80,700	216
4	Metrology and Quality Control	Surface Roughness Tester Model, Profile Projector Model 300 T with 10x lens, Floating Carriage Micrometer	7,54,770	217
5	Fluid Mechanics	Flow Net by using Electrical Analogy, Friction Losses in Pipe, Minor Losses due to Pipe Fitting	3,53,160	211
6	Heat Transfer	Pool Boiling, Thermal Conductivity of Insulation Powder, Thermal Conductivity of Metal Rod	2,64,064	210
7	Mechatronics	X-Y Position Control System, P,PI, PID Control System, Linear Conveyor Control System	5,89,480	217
8	CAD/CAM – I	CATIA V6 PLM Discover PACK UDK , CREO 1.0 university plus site Edition and Maintainance	18,05,883	218
9	CAD/CAM – II	FEA Package (MD FEA + Motion Bundle), MATLAB Software , Mastercam X9 Software	15,41,441	219
10	Refrigeration and	ICE Plant Trainer,	2,55,312	209

	Air Conditioning	Refrigeration Tutor, Air Conditioning Trainer		
11	Metallurgy	Magnetic Particle Crack Detector , Cutting Machine (Open Abrasive Cutting Machine "MINICUT", BIE Make Vickers cum Brinnel Hardness Tester	5,77,847	216
12	Basic Mechanical Engineering	Models of Boilers, CI and SI Engines.	3,39,963	015
13	Turbo Machines	Pelton Wheel Turbine Test Rig, Francis Turbine Test Rig, Centrifugal Pump Test Rig	5,79,370	Basement II
14	Thermodynamics	Exhaust Gas Analyser, Separating & Throttling calorimeter, Double Stage Reciprocating Air Compressor Test Rig	6,35,938	008
15	Workshop	CNC Lathe Trainer, smarat brand High precision lathe, Milling Machine,	33,90,975	Workshop
16	IC Engine	Computerised VCR Diesel EngineTest, Morse Test 3-cylinder Petrol Engine,	9,90,060	Basement V

31. Number of students receiving financial assistance from College, university, government or other agencies

Year	Category	No. of Students
2016-17	SC	7
	OBC	57
	SBC	0
	VJNT	13
	ST	0
	EBC	115
2015-16	SC	22
	OBC	70
	SBC	0
	VJNT	23
	ST	2
	EBC	145
2014-15	SC	4
	OBC	66
	SBC	0
	VJNT	17
	ST	0
	EBC	189
2013-14	SC	20
	OBC	75

	SBC	0
	VJNT	17
	ST	0
	EBC	177
2012-13	SC	7
	OBC	57
	SBC	0
	VJNT	13
	ST	0
	EBC	115

32. Details on student enrichment programmes (special lectures / workshops / seminars) with external experts

Sr. No.	Student Enrichment Programmes Details	Date	No. of Participants
Workshop			
1	Three Days workshop on Industrial Automation(PLC SCADA)	24th -26th March 2017	40
2	Three day workshop on Engine 360	9th -10th and 13th February 2017	245
3	Workshop (Webinar) on Workbench	21st January 2017	50
4	Quantitative Aptitude and Logical reasoning Workshop	26th to 29th December 2016	198
5	Two Day Workshop on Quadcopter-The UAV	24th and 25th September 2016	101
6	03 days National Level Workshop on Engine 360	14th – 16th Jan 2016	417
7	02 days Workshop on Industrial Automation	19th and 20th March 2016	72
8	Engine 360	18th To 20th Jan 2015.	432
9	Industrial Automation	7th and 8th March 2015	124
10	Engine 360	04th To 06th Feb 2014.	317
Techincal Events			
1	Aptitude Test and Group Discussion	14th September 2017	214
2	TIDE-17	20th March 2017	27
3	Aspiring Minds' Computer Adaptive Test(TE)	20th, 22nd, 23rd and 28th February	203

4	Aspiring Minds' Computer Adaptive Test(SE)	15th, 16th, 17th and 27th February	277
5	The Lone Survivor	9th and 10th February 2017	71
6	Krazzy 5	9th and 10th February 2017	21 Teams
7	Knows it All	9th and 10th February 2017	86
8	RoboKrieger	9th and 10th February 2017	34 Teams
9	The Cad Master	9th and 10th February 2017	65
10	Online Aptitude Test (SAE Quiz TE)	6th September 2016	48
11	Online Aptitude Test (SAE Quiz SE)	30th August 2016	111
12	The Lone Survivor	14th and 15th Jan 2016	131
13	Robo Krieger Competetion	15th and 16th Jan 2016	25 Teams
14	Catia Master Competetion	15th and 16th Jan 2016	97
15	Krazzy 5 Competetion	15th and 16th Jan 2016	27 Teams
16	The Lone Survivor	18th and 19th Jan 2015	65
17	Robo Krieger Competetion	19th and 20th Jan 2015	24 Teams
18	Catia Master Competetion	19th and 20th Jan 2015	86
19	Krazzy 5 Competetion	19th and 20th Jan 2015	24 Teams

Year	No. of Workshops Conducted	No. of Technical events Conducted
2017-2018	00	01
2016-2017	3	10
2013-2014	1	0
2014-2015	2	4
2015-2016	2	4
2016-2017	2	10

Academic year 2017-18						
1. Guest Lecture						
Sr. No	**Resource Person**	**Institute/ Organization**	**Topic**	**Date**	**Dur atio n**	**No. of studen ts**
1	Mr.Yogesh Surkutwar	Manager,ARAI, Pune	Trends of Simulation domain in Automobile Sector	3/10/2017	2 hrs	77
2	Mr. Akshay Joshi	CAD CAM Guru Solution Pvt. Ltd.	Introduction of Hyperloop Technology	13/09/2017	2 hrs	78
3	Mr. Amartya Ratan	Vani Institute Coaching Centre , Pune	Introduction of GATE/IES/ PSU's	30/08/2017	2hrs	93
4	Mr. Atul Inamdar	Synergy (School of Business Skills) Pune	Kaizen & Six Sigma	18/07/2017	2hrs	43
5	Mr. Atul Inamdar	Synergy (School of Business Skills) Pune	Kaizen & Six Sigma	10/07/2017	2hrs	61

3. Industrial Visits			
SR. NO	**Name of Company**	**Date of Visit**	**No. of Students**
1	Accurate Sales & Services Pvt.Ltd., Hadpsar	5th & 24th Sept. 2017	301
2	National Defence Academy, Pune	17th Sept 2017	48
3	Balgandharv Rangmandir,Pune	21st Sept.2017	165
4	Varsagaon & Panshet Dam, Pune	22nd &23rd Sept. 2017	208
5	Pawana Dam, Pune	23rd Sept 2017	134
6	Katraj Dairy,Pune	27th to 29th Sept.2017	258

7	City Pride, Kothrud,Pune	3rd Oct. 2017	93
8	Automotive Research Association of India (ARAI), Pune	7th Oct. 2017	39

Academic year 2016-17						
1. Guest Lecture						
Sr. No	Resource Person	Institute/ Organization	Topic	Date	Duration	No. of students
1	Mr. Snehasis Dey	The GATE Academy	Lakshya GATE (The GATE Academy)	05/07/2016	2 Hrs	103
2	Mr. Sushil D. Bhagat	Innovation (Design Development & innovation)	Introduction of CAD-CAE	08/07/2016	2 Hrs	71
3	Mr. M. M. Trinath	Vani Institute	GATE/IES/ PSU's	20/07/2016 & 21/07/2016	2+2 Hrs	146
4	Mr. Prashant Shah	3D Prototype	Rapid Prototyping	22/07/2016	2 Hrs	61
5	Mrs. Suvarna Dixit	CADD Centre Kothrud, Pune	Career opportunities in CAD-CAE	27/07/2016	2 Hrs	83
6	Mr. Girish Poipkar	Horizon environmental engineering Solutions	Sheet Metal Stamping	25/08/2016	2 Hrs	122
7	Mr. Bhavesh Chhag	Autodesk Education Program Vinsys IT Services India Pvt.Ltd. Pune	Autodesk Fusion 360	05/01/2017	2 Hrs	113
8	Mrs. Suvarna Dixit	CADD Centre Kothrud, Pune	Introduction of ANSYS	06/01/2017	2 Hrs	82
9	Mr. Pralhad Deshpande and Mr. Ruchin Pandey	GATE Hub	Strength of Materials, GATE	18/01/2017	2 Hrs	105

| 10 | Mr. Nitin Datar | Heat Treatment & Metallurgical Laboratory Carraro India Pvt.Ltd. | Engineering Metallurgy | 20/01/2017 | 2 Hrs | 155 |
| 11 | Mr. Arvind Paranjape | TATA Co. Operative Pvt. Ltd. | Power Plant Engineering | 21/03/2017 | 2 Hrs | 159 |

2. Research publication in seminar / conference			
Sr. No.	**Name of the publication**	**Year**	**No. of students**
1	Hot pot Stress Assessment at Fillet Welded Joint Using Different Finite Element Weld Modelling Techniques and its Validation	2016 - 2017	1
2	Balance Cut Analysis for Stress and Balance Capacity of a Turbocharger Turbine Wheel	2016 - 2017	2
3	Experimental & Finite Element Analysis of Pine Wood Used In Vibratory Conveyor	2016 - 2017	1
4	Oil Seal : Installation Techniques and Preventive Measures to Avoid Leakeges	2016 - 2017	4

Sr. No.	**3.Workshops Conducted**	**Date**	**No. of students**
1	Three Days workshop on Industrial Automation(PLC SCADA)	24th -26th March 2017	40
2	Three day workshop on Engine 360	9th 10th and 13th February 2017	245
3	Workshop (Webinar) on Workbench	21st January 2017	50
4	Quantitative Aptitude and Logical reasoning Workshop	26th to 29th December 2016	198
5	Two Day Workshop on Quadcopter-The UAV	24th and 25th September 2016	101

	4. Industrial Visits		
SR. NO	**Name of Company**	**Date of Visit**	**No. of Students**
1	RUTU Enterprises	06/09/2016 & 28/09/2016	92
2	Ratan Motors	17/03/2017	201
3	Electromech	14/09/2016	60
4	Shree Systems	10/10/2016	89
5	Accurate sales and services private limited Hadapsar, Pune	12/09/2016	70
6	City Pride, Kothrud	08/09/2016 To 13/09/2016	198
7	Katraj Dairy	13/03/2017 To 14/03/2017	164
8	Warje Pumping station	20/03/2017 To 22/03/2017	187
9	Shri Sant Tukaram SSK Bagasse Cogeneration Plant	22/03/2017 To 23/03/2017	239

	Academic year 2015-16					
	1.Guest Lecture					
Sr. No	**Resource Person**	**Institute/ Organization**	**Topic**	**Date**	**Dura - tion**	**No. of Students**
1	Mr. Vivek Upadhyay	I SUN Solution	Introduction of SAP	10/07/2015	2hrs	75
2	Mr. Ganesh Darekar	Asst. General Manager (Kores India, Pune)	Engineering Metals	14/08/2015	2hrs	124
3	Dr. John Peter	DEAN MBA RMDSSOMS, Warje, Pune	Group Discussion	17/08/2015	1 hr	17
4	Mr.Kiran Lalsangi	11 Dot CADTech	Career Opportunity in CAD	22/08/2015 & 10/02/2016	2hrs + 2hrs	59 + 93
5	Mr.Pralhad Deshpande	GATE Hub Pune	GATE/IES/IPS Preparation	02/09/2015 &	1hr +2hrs	90 +143

				02/02/2016		
6	Mr. Rajanikant Singh	MBA	Group Discussion	02/09/2015	2hrs	60
7	Mr. Nikhil Pratap	Design Tech	Introduction to Hypermesh	08/09/2015	2hrs	79
8	Mr.Gopal Khanzode	Marketing Excecutive MADE Easy, Pune	IES Preparation	19/01/2016	2hrs	67
9	Mr. Yogesh N. Raybhoge	Application Engineer (Educate to Automate)	Introduction: Educate to Automate	19/01/2016	2hrs	58
10	Mr. Rajesh Chavan	Founder of Jivansanjivani academy	Personality Development	23/01/2016	2hrs	79
11	Mr. Arvind Paranjape	Asst. Gen. Mgr. at TATA Power Co. Ltd.	Power Plant Engineering	28/01/2016	2hrs	100
12	Mr. Rajendra Shende	Rotary Club	Global Warming & Ozone Retaintion	30/01/2016	2hrs	56
13	Mr.Kalyanaraman Venkatesan	Senior Excecutive at Vodafone India Services Pvt.Ltd.	Mission Safer Road	12/02/2016 & 16/02/2016	2hrs + 2hrs	161+49
14	Mr. Raghav Kulkarni	Asst. Marketing Manager (Designtech Systems Ltd.)	Career opportunity in CAE	12/03/2016	2hrs	35

Research publication in seminar / conference			
Sr. No.	Name of the publication	Year	No. of students
1	Design and development of new catalytic converter	2015-2016	4
2	Design and optimization of eddy current braking system	2015-2016	4
3	Design of automated sand handling and mixing system	2015-2016	4
4	Mould flow simulation of belly pan for feeding and warpage analysis	2015-2016	1
5	Study of planetery concrete mixers	2015-2016	4
6	Automic wall plastering machine	2015-2016	4
7	Design and Analysis of planetary gearbox for industrial concrete mixer	2015-2016	4
8	Re-engineering of the Instrumentation Check Valve	2015-2016	1
9	A survey paper on factors controlling the energy absorption of crash box	2015-2016	1
10	Design of the Instrumentation Check Valve	2015-2016	1

11	Automatic tube bending machine	2015-2016	1
12	Design and Analysis of weilding fixture for automotive component using FEA	2015-2016	1

Sr. No.	1. Workshops Conducted	Date	No. of students
1	Two Days Workshop on Industrial Automation (PLC,SCADA & HMI) organized by EIE Projects India	19th and 20th March. 2016	72
2	03 days Workshop on Engine 360	14th to 16th Jan 2016	417
3	Workshop on Demonstration of Power Plant and Robotics Software for Faculty	6th Nov 2015	15

2. Industrial Visits			
SR. NO	Name of Compony	Date of Visit	No. of Student
1	Sant Tukaram Sahakari Karkhana	29th March 2016	78
2	Warje Pumping Station Pune	15th to 19th March 2016	350
3	Ratan Motors Katraj, Pune	8th and 9th March 2016	350
4	Volkswagen India PVT. Ltd.	3rd March 2016	35
5	Accurate Engineering Company Pvt. Ltd.	7th Oct 2015	132
6	Katraj Dairy, Pune	4th Sept 2015	350
7	City Pride Kothrud, Pune	17th August 2015	230

Academic year 2014-15			
1. Guest Lectures			
Sr. No.	Name of the Speaker	Topic	Date	No. of students
---	---	---	---	---
1	Mr. Avinash Deshpande	GATE/IES/IPS Preparation,	05/072014	52
2	Mr. Girish Poipkar (Director at Horizon Enviornment Engg. Solution)	Sheet Metal Process in Industries	12/072014	63
3	Mr. Rajanikant Singh	Group Discussion	19/07/2014	42
4	Dr. Ram Bhende	Lateral Thinking	23/07/2014	35
5	Col. Kulkarni & Col. Chaterjee	Future Opportunities in ARMY	29/072014	41
6	Mr. Chincholikar	Design Thinking	09/08/2014	42
7	Mr. Malik Sharma	Preparation of GRE/ GMAT	08/01/2015	50

| 8 | Mr. Girish Poipkar (Director at Horizon Enviornment Engg. Solution | Traits of Enterpreurship | 22/01/2015 | 53 |
| 9 | Mr. Paresh Rege | Future Opportunities in CAD/CAM | 07/03/2015 | 48 |

2. Research publication in seminar / conference			

Sr. No.	Name of the Topic	Year	No. of students
1	Structural analysis of chassis: A review	2015	1
2	Design and analysis of technique of cold bending of glass plate	2015	1
3	Design and analysis of self centering automatic gripper (steady rest) for supercut-6 CNC turning machine using CAD and FEA	2015	1
4	Structural analysis of trailer frame and modification for weight optimization	2015	1
5	Nonlinear elastic analysis of structural frame under dynamic load condition	2015	1
6	Employing computational techniques for determining the nature of modal frequencies and corresponding stresses for gear housing using MSC NASTRAN	2015	1
7	Review on E-Brake system for cable trolley system	2015	1
8	Review of low temperature air generation from vehicle suspension system	2015	4
9	Design and optimization of gating system for TVS SATELITE	2015	1
10	Energy absorption of varying thickness rectangular section crash box for quasi-static axial loading	2015	1
11	Power generation by suspension system used in automobile	2015	1
12	Review on solar food cutter with shaft mounted speed reducer for agricultural feild application	2015	1
	Total		12

3. Workshop / Conferences organized		

Sr. No.	Name	Date	No. of students
1	Workshop on Carrier in Armed Forces	23rd July 2014	Open to all
2	Faculty Training Programme on PTC Creo	18th to 22nd July 2014	Open to all
3	03 days Workshop on Engine 360	18th to 20th January 2015	432
4	02 Days Workshop on Industrial Automation	7th and 8th March 2015	124

4. Industrial Visits		

Sr. No.	Name of the Organisation	Date	No. of Students
1	Ratan Motors, Katraj,Pune	3rd and 4th Feb, 2015	153
2	Pawna Dam, Mulshi	8th Oct, 2014	58
3	Warje Pumping Station, Pune	25th Sept,2014	56
4	City Pride Kothrud, Pune	6th Sept, 2014	53

5	Katraj Dairy Pune.	4th Sept, 2014	159
6	ADLABS IMAGICA, Khandala	27th Aug, 2014	93
7	Accurate Precision, Saswad	21st Mar, 2014	127
8	Tarapur Atomic power station	10th to 25th March 2015	247

Academic year 2013-14				
1. Guest Lectures				
Sr. No	Name of the Speaker	Topic	Date	No. of students
1	Mr.Sachin Wagh	Recent trends in Automobiles	20th July , 2013	51
2	Mr. Datta Parle	Introduction of CATIA & ANSYS	13th Sep, 2013	63
3	Mr.Bizli Shaikh (Mahindra & Mahindra)	Product Development	27th Dec,2013	52
4	Mr.Mahesh Nandurkar (Kirloskar Oil Engines limited)	Role of Mechanical Engineer in Industries	30th Jan, 2014	48
5	Col. O. P. Mishra	Internal Combustion Engine	06th March,2014	45
6	Mr. Datta Parle	Finite Element Method,	29th March, 2014,	55

2. Research publication in seminar / conference			
1	Employing Computational Techniques for determining the nature of modal frequencies and corresponding stresses for gear housing using MSC NASTRAN – 2014	March 2014	1

3. Industrial Visits			
1	Accurate sales and services private limited Hadapsar, Pune,	12th Feb 2014	47
2	City Pride Kothrud, Pune	11th Sept, 2013	44

Academic year 2012-13			
1. Guest Lectures			
Sr. No	**Name of the Speaker**	**Topic**	**Date**	**No. of students**
1	Dr.S.M.Shendokar (Principle at Bharati Vidyapeth Lavale, Pune),	Guest lecture on Composites	9th Nov 2012	40
2	Mr. Hemant Khalane	Basic Mechanical Engineering	5th April 2013	11

2. Industrial Visits			
Sr. No.	**Name of the organisation**	**Date**	**No. of students**
1	Volkswagen India Private Limited	3rd Mar 2016	35
2	Sant Tukaram Sakhar Karkhana	29th Mar 2016	78
3	Ratan Motors, Katraj,Pune	8th and 9th Mar 2016	349
4	Katraj Dairy, Pune	4th Sept, 2015	352
5	Accurate Engineering Company Private Limited	7th Oct, 2015	132
6	City Pride Kothrud, Pune	17th Aug, 2015	231
7	Warje Pumping Station, Pune	15th to 19th Mar 2016	353
8	ADLABS IMAGICA,Khandala	21st Aug 2015	93

33. Teaching methods adopted to improve student learning

Department practices a blend of Activity based and Project based learning in addition to traditional lecture-based learning.

To improve classroom learning, department has applied following practices

- Faculty members are allotted subjects as per their choice and specialization
- Faculty are asked to prepare semester-long teaching plan and course file before the start of the semester.
- Each staff is asked to prepare soft copies of their notes and Powerpoint presentations for the course content. Same is shared with the students
- To simplify Teaching Learning process teaching aids are provided for conducting lectures.
- Models, videos, and animations are used by faculty members to elaborate concepts as per the complexity of the topic.
- Lab experiments and homework in the form of assignments are given to students.
- Lectures with self-learning session are allotted in the timetable.

Project Based and Active Learning

- Department has designed three courses based on the Project Based Learning (PBL) concept. In these courses, students are asked to work on the projects. Students informed that learning in PBL environment is better that traditional lectures. Also, it is useful for promoting professional and personal skills.
- Capstone projects are compulsory projects for the final year students.
- Project exhibition and various technical festivals provide an opportunity for active learning.
- Expert talks by Industry experts and Seminars are arranged to bridge the knowledge gap of the students.

Assessment Method

- Various tests (Unit test and Prelim, Online, etc.) are used for assessment.

- Mock tests are conducted to evaluate the students' understanding of the subject.

- Industry experts are included during the revision of the course (syllabus) at university level.

- Feedback from alumni and final year student are taken into account during the revision of the PEO's at the institute.

- Indirect assessment is done through campus interviews and performance of students in competitive exams like GATE, GRE, and CAT, etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Sr. No.	Academic Year	Name of event	Dates
1	2017-18	Environment awareness Camp at Mula-Mutha River (Steps to be taken to reduce Environmental Impact of Ganapati Festival)	05/09/17
2		Food kit and study material distribution to Shree Sai Seva sansthan, Pune	13/09/17
3		Cloth donation drive	14/09/17
4		Cyclothon organized by SPPU	17/09/17
5	2016-17	Yoga Day	21st June 2016
6		Tree plantation	1st July 2016
7		Awareness of Organ Donation by SKN Hospital Doctors	31st Aug 2016
8		Sahajyoga sessions for students & staff	Sem-I (2hrs/week)
9		Visit to Kamayani(Mentally challenged institute)	15th Sept 2016
10		Sweet distribution to orphanage institute	24th Jan 2017

11		Blanket distribution at Swargate bus stand to needy people	25th Jan 2017
12		Lunch arrangement at Matoshri- Old age home.	26th Jan 2017
13		Poster competition on "Save the girl child"	9th Feb 2017
14		Women's Day Celebration Program	8th March 2017
15		Hemoglobin checkup for girls & lady faculty members	8th Mar 2017
16	2015-16	Visit to Kamayani(Mentally challenged institute)	10th Sept 2015
17		Sweet distribution to orphanage institute	24th Jan 2016
18		Blanket distribution at Swargate bus stand to needy people	25th Jan 2016
19		Lunch arrangement at Matoshri- Old age home.	26th Jan 2016
20		Plastic kacharaMukta Pune ShaharAbhiyan	13th Feb 2016
21		Seminar on Global Warming & Ozone Retention by Rajendra Shende	20th Feb 2016
22	2014-15	Blood donation camp	3rd July 2014
23		Visit to Kamayani(Mentally challenged institute)	12th Sept 2014
24		Sweet distribution to orphanage institute	24th Jan 2015
25		Blanket distribution at Swargate bus stand to needy people	25th Jan 2015
26		Lunch arrangement at Matoshri Old age home.	26th Jan 2015
27		Women's Day celebration	8th Mar 2015
28		Blood donation	24th Mar 2015
29	2013-14	Blood Donation	16th Feb 2014
30		Sweet distribution to orphan age institute	24th Jan 2014
31		Blanket distribution at Swargate bus stand to	25th Jan 2014

		needy people	
32		Lunch arrangement at Matoshri Old age home.	26th Jan 2014

35. SWOC analysis of the Mechanical Engineering Department and future plans

SWOC Analysis

Strengths Weaknessess Opportunities Challenges (SWOC) analysis used to identify the acquired and inherent strengths along with weaknesses of the department. Furthermore, it is also carried out to identify the opportunities to excel and improve, to negotiate the challenges faced by the department from the internal and external environment.

Strengths:
- Learning environment is a blend of traditional teaching, Project Based Learning and Activity Based Learning.
- The department has a pool of well qualified and experienced faculty
- Faculty from IITs, NITs and renowned institutes.
- Well maintained labs to support curriculum.
- MoU with the industries for research and development.
- Research publications and books.

Weaknesses:
- Less number of senior faculty.
- Inadequate consultancy activities

Opportunities:
- Interdisciplinary approach in research & industrial training
- Good opportunity for community projects.

Challenges:
- Induction and retention of faculty.
- Improve the quality of results.

Future Plans:
- To establish Project Based Learning in majority of subjects.
- To establish a research center.

Department of Civil Engineering
Evaluation Report of the Department

1. Name of the department: Civil Engineering

2. Year of Establishment: 2011

3. Names of Programmers / Courses offered (UG & PG):

Course offered	Name of the course	Specialization	Year of Establishment	Intake
U.G.	BE	Civil Engineering	2011	60
			2012	60
P.G.	ME	Construction & Management	2013	24

4. Names of Interdisciplinary courses and the departments/units involved:

Following Interdisciplinary courses are involved in curriculum of programs:

Sr. No.	Name of Interdisciplinary course	Department
1	Engineering Mathematics-III	First Year Engineering
2	Applications of Statistical Methods in Construction	First Year Engineering

5. Annual/ semester/choice based credit system (programme wise):

Sr. No.	Course offered	Programme	Duration	System	Evaluation
1	U.G.	Civil Engineering	4 Years	8 Semester	Marks/ Credit
2	P.G.	Construction and Management	2 Years	4 Semester	Credit

6. Participation of the department in the courses offered by other departments:

Sr. No.	Courses offered	Department
1	Basic Civil & Environmental Engineering	First Year Engineering
2	Engineering Mechanics	First Year Engineering

7. Courses in collaboration with other universities, industries, foreign Institutions, etc: Nil

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts:

For Undergraduate Programme

	Sanctioned	Filled
Professors	2	----
Associate Professors	4	01
Asst. Professors	21	23
Total	27	24

10. Faculty profile with name, qualification, designation and specialization:

Sr. No.	Name	Designation	Qualific-ation	Specialization	Exp. In	Ph.D. Students
1	Mr. R. D. Shinde	Asst. Prof. & Head of Dept.	M. Tech.	Construction & Management	12	--
2	Mr. S. S. Jadhav	Asst. Prof.	M.E.	Structures	11	--
3	Mr.A.V.Shirgire	Asst. Prof.	M.Tech. PhD	Hydroluics	10	--
4	Mrs. J. P. Patil	Asst. Prof.	M.E.	Structures	11	--
5	Mrs. S. R. Khot	Asst. Prof.	M.E.	Structures	10	--
6	Mr. D. L. Mittapalli	Asst. Prof.	M.E.	Structures	9.5	--
7	Mr. S. R. Thakur	Asst. Prof.	M.E.	Structures	7.5	--
8	Mr. P. P. Ankad	Asst. Prof.	M.E.	Structures	7	--
10	Mrs. P. N. Bidkar	Asst. Prof.	M.E.	Structures	6.5	--
11	MR.D.B.Bhosale	Asst. Prof.	M.E.	Construction & Management	5.5	-
12	Mrs. S. U. Bobade	Asst. Prof.	M.E.	Construction & Management	5.5	--
13	Mr. M. A. Khandare	Asst. Prof.	M. Tech.	Construction & Management	5.5	--
14	Ms. A. P. Deshmukh	Asst. Prof.	M.E.	Hydraulics	4.5	--
15	Mr. C. P. Mane	Asst. Prof.	M.E.	Environment	4.5	--
16	Mr. A. V. Datye	Asst. Prof.	M.E.	Environment	3	--
17	Mr. S. G. Suryawanshi	Asst. Prof.	M. Tech.	Structures	2.5	--
18	Mr. R. B. Shintre	Asst. Prof.	M. Tech.	Energy & Environment	2	--

19	Ms. A. V. Nadkar	Asst. Prof.	M.E.	Structures	3.5	--
20	Mrs. V. P. Joshi	Asst. Prof.	M.E.	Construction & Management	2	--
21	Ms. S. B. Deshmukh	Asst. Prof.	M.E.	Hydraulics	1.5	--

11. List of Senior Visiting Faculty:

Year	Name of Faculty	Subject
2016-17	Dr.S.T.Mali	Solid Waste Management
	Dr.J.R.Patil	Geotechnical Engineering
	Dr.Shrikant Gabale	Engineering Geology
2015-16	Mrs. P. V. Nibolkar	Advance Surveying
2014-15	Mr. G. S. Anaokar	Environmental Engineering-I
	Mr. R. R. Sorate	Dams and Hydraulic Structures
2013-14	Mr. R. R. Sorate / Dr. N. J. Sathe	Engineering Geology
	Mr. V. Shelar / Mr. U. R. Awari	Engineering Mechanics
	Mr. D. Hinganekar	Research Methodology
	Dr. M. S. Kaulgi	Application of Statistical Methods in Construction
	Mrs. S. Deshpande	Intellectual Property Rights
2012-13	Mr. V. C. Hulsare	Engineering Geology
	Mrs. G.Panse	Building Planning

12. Percentage of Lectures delivered and practical classes handled [Program wise] by temporary Faculty:

Year	Subject	Theory Lectures conducted	Practical conducted
2015-16	Advance Surveying	13%	NA
2014-15	Environmental Engineering-I	24%	100%
	Dams and Hydraulic Structures	NA	43%
2013-14	Engineering Geology	37%	NA
	Engineering Mechanics	13%	NA
	Research Methodology	21%	NA
	Application of Statistical Methods in	55%	NA

	Construction		
	Intellectual Property Rights	47%	NA
2012-13	Engineering Geology	86%	NA
	Building Planning	25%	100%

13 Student teacher ratios:

Year	Students' Intake	Teacher(s)	STR
2017-18	360	21	17:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Type of Staff	Sanctioned	Filled
Lab Assistant	3	3

15. Qualification of teaching faculty:

Sr. No.	Qualification	No. of Teaching faculty
1	Ph.D	1
2	Ph.D Pursuing	2
3	Post Graduate	21

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 per faculty:

a) Publications per faculty

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

Sr. No.	Faculty Name	No. of paper published in peer review journals faculty/students	No. of publication listed in International/ National conference	Chapters in books	Books edited
1	Mr. R. D. Shinde	8	--	1	1
2	Ms. S.D.Aambadkar	5	1	--	--
3	Mr. S. S. Jadhav	1	--	--	--
4	Mr. A.V.Shirgire	3	2	--	--
5	Mrs. J. P. Patil	3	--	2	3
6	Mrs. S. R. Khot	6	1	--	--
7	Mr. D. L. Mittapalli	6	--	--	--
8	Mr. S. R. Thakur	3	--	--	--
9	Mr. P. P. Ankad	1	--	--	--
10	Mrs. P. N. Bidkar	1	--	--	--
11	Mrs. S. U. Bobade	7	1	13	3
12	Mr. M. A. Khandare	12	--	--	--
13	Ms. A. P. Deshmukh	0	1	--	--
14	Mr. A. V. Datye	1	1	--	--
15	Mr. S. G. Suryawanshi	3	--	--	--
16	Mr. R. B. Shintre	1	--	--	--
17	Mrs. V. P. Joshi	2	--	--	--
18	Mr. A. G. Shelake	5	--	7	1
19	Ms. S. B. Deshmukh	1	03	--	--
20	Ms. S. S. Bhende	2	1	--	--
21	Mr. C.P.Mane	--	1	--	--
22	Mr. D B Bhosale	--	02	--	--
23	Ms.A V Nadkar	--	1	--	--
24	Mr. Y.B.Patel	1	--	--	--
	Total	**71**	**15**	**23**	**08**

b) Books and Monographs Published –05

20. Areas of consultancy and income generated: Nil

21. Faculty as members in:

a) National committees b) International Committees c) Editorial Board**- Nil**.

22. Student's projects:

Sr. No.	Description	2017-18	2016-17	2015-16	2014-15	2013-14
(a)	Percentage of students who have done in-house projects including interdepartmental/ programme	100	100	93.75	100	NA
(b)	Percentage of students placed for projects in organizations outside the institution	NIL	NIL	6.25	NIL	NA

23. Awards / Recognitions received by faculty and students:

Awards / Recognitions received by Faculties:

Academic Year	Name of Faculty	Details of Awards / Recognitions	Organization / Event
2016-17	Ms. S. B. Deshmukh	Junior Engineer (Class II)	Irrigation Department, Government of Maharashtra
2015-16	Ms. Gayatri Gurav	Asst. Engineer (Class I)	Irrigation Department, Government of Maharashtra

Awards / Recognitions received by students:

Academic Year	Name of Student	Details of Awards / Recognitions	Organization / Event
2017-18	Kapase Gaurav	1st Prize in Model Making Competion in TESLA	MITCOE, Pune
	Aksahay Gangre		
	Amol Palde		
	Ajinkya Upwar		

	Ajinkya Upwar	2nd Prize in Quiz Competion in TESLA	MITCOE, Pune
	Yash Kulkarni		
	Prasad Waghmare	1st Prize Sinhgad Instututes Maharastra Mission one million	NBNCOE, Pune
	Mihir Rawalekar		
	Nisarg Gosavi		
2016-17	Shubham Surywanshi	1st Position in Badminton "Colori Premier League"	Amit's Colori, Undri, Pune
	Sadashiv Adsule Rajnikant Kadam	2nd Prize in "Nirman" Tower Making Event, Sinhgad Karandak 2017	SITS Narhe, Pune
	Yash Kulkarni	Star Performer of the Year	Aple Kartavya – Responsibility towards society.
	Prasad Waghmare Nisarg Gosavi	1st Prize in Football Competition " Syncytium 2017"	SKN Medical College and General Hospital , Pune.
	Prasad Waghmare Nisarg Gosavi	Runner up for "Intercampus Football Competition" Sinhgad Karandak Sports 2017	SIT Lonavala.
	Pranit Joshi Medha Kulkarni	1St Prize in "Mega Competition" organized by Robocart by IIT Bombay Cell	RMD SSOE, Warje.
	Ajinkyatej Bhalerao	Best Cinematographer Award	KSFF Event Sinhgad Karandak 2017
		Best Director, YOSA Film Festival	YOSA, Satara
		Best Story Award YOSA Film Festival	YOSA, Satara
	Ajinkya Galinde	Intercollegiate Competition Cricket Winner	JSPM Narhe, Pune
	Akshay Surana	Best Intern Award	CEII (Experts Hub Industry Skill Development Center) – SKNCOE Pune
	Mayuresh	3rd Prize for Best Play "Love	One Kid Foundation,

	Naralkar Ameya Patki Pratik Patil Vallari Kale Jyoti Kadam	Letter" in Vinodottam Karandak 2016	Pune
	Parshuram Rathod Jivnath Zende	2nd Position in "Model Making" event	MIT COE- TESLA
	Akshay Ganjare Gaurav Kapse Rohit Suryawanshi Ajinkya Upawar	1st Prize in Model Making Event under Techtonic 2017	RMD SSOE, Warje.
	Pratik Patil	2nd Prize for "Best Actor" in Vinodottam Karandak 2016	One Kid Foundation, Pune
	Ruturaj Jadhav Siddharth Marathe	1st Prize in " Ganga Plank" event under TECHNIKALAH 2016	NICMAR, Pune
2015-16	Ruturaj Jadhav	2nd Prize Vinodottam Karandak 2016	Vinodottam Karandak 2016
	Sudhanshu Balapurkar		
	Abhijeet Sarnot		
	Mithilesh Gawali	1st Prize in Syncytium 2016 "Debate Competition	SKN Medical College, Pune.
	Mithilesh Gawali	2nd Prize in Syncytium 2016 "Mad Ads Competition	SKN Medical College, Pune.
	Mithilesh Gawali	2nd Prize in Syncytium 2016 "Extempore Compeition	SKN Medical College, Pune.
	Shubham Soni	2nd Prize in Young Innnovators" Poster Competition	Jatan Pune Youth Festival
	Mithilesh Gawali	Best Outgoing Student of Institute	RMD Sinhgad School of Engg. Warje
	Akshay Ganjare	1st Prize for Cricket Tournament	B. J. Medical College, Pune.
2014-15	Shubham Soni	2nd Prize in "Make the Way" Bridge Making Competition	Sinhgad Karandak 15

	Shubham Soni	1st Prize in "Model Making" Competition	Sinhgad Karandak 15
	Mithilesh Gawali	1st Prize in " Techno-Quiz" Competition	Sinhgad Karandak 15
	Ruturaj Jadhav	Appointed in the Board of Directors as Public Relations Officer	Rotaract Club of Warje, Pune

24. List of eminent academicians and scientists/ visitors to the department:

The following eminent persons have visited the institute:

Sr. No.	Name	Designation	Organization	Date
1	Dr. Shrikant Gabale	GIS Operational Head	ETH Ltd. India	19/01/2017
2	Dr. S. T. Mali	Professor	PCCOE Akurdi	13/02/2017
3	Mr. S. D. Pathak	Retd. Executive Engineer	--	22/02/2017
4	Dr. J. R. Patil	Principal	DACOE, Karad	17/03/2017
5	Mr. Anil Dandekar	Retd. Principal	--	23/01/2015
6	Er. V.M. Ranade	Professor	COEP, Pune	02/08/2014
7	Dr. D.N.Singh	Professor	IIT Bombay	02/08/2014
8	Mr. Durgesh Hingnekar	Senior Engineer	Aker Power gas Subsea Pvt. Ltd	10/08/2013
9	Dr. M. S. Kaulgi	Professor	D.Y. Patil College of Engineering, Akurdi, Pune.	08/09/2013

25. Seminars/ Conferences/Workshops organized and the source of funding National:

cademic Year	Name of Seminars/ Conferences/Workshops	National / International / Other	Sponsoring / Funding Agency if any	Revenue Generated
2017-18	Advanced Surveying using Total Station	State level	Self Sponsored	8200/-
2016-17	Primvera	State level	Self Sponsored	4215/-
2016-17	E-TAB And Tall Buildings	State level	Self Sponsored	16600/-

26. Student profile programme /course wise:

*M=Male F=Female

A) UG Details

Academic Year	Applications received	Selected (Total Admissions)	Enrolled		Pass %
			M	F	
2017-2018	Admission process in the state is only through CAP and governed by Directorate of Technical Education (DTE), Government of Maharashtra. The Institute follows the rules, regulations and guidelines set by Savitribai Phule Pune University, Maharashtra State Government and AICTE.	**104**	**82**	**22**	**--**
2016-17		117	95	22	**92.24**
2015-16		162	136	26	83.10
2014-15		131	113	18	NA
2013-14		179	151	28	
2012-13		126	113	13	

B) PG Details

Academic Year	Applications received	Selected (Total Admissions)	Enrolled		Pass %
			M	F	
2017-2018	Admission process in the state is only through CAP and governed by Directorate of Technical Education (DTE), Government of Maharashtra. The Institute follows the rules, regulations and guidelines set by Savitribai Phule Pune University, Maharashtra State Government and AICTE.	**21**	**16**	**5**	
2016-17		19	13	6	88
2015-16		24	15	9	52.17
2014-15		23	17	6	66.67
2013-14		24	18	6	NA
2012-13		NA	NA	NA	

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States
2017-2018	**90.4**	**0.96**
2016-17	88.97	11.03
2015-16	83.46	16.54
2014-15	97.63	2.37
2013-14	98.33	1.67

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc?

Academic Year	Number of Students participated in National & State Competitive Examinations			
	GATE	**GRE**	**TOEFL**	**Civil Services**
2017-18	00	00	00	00
2016-17	00	00	3	04
2015-16	01	03	03	00
2014-15	00	01	01	00
2013-14	NA	NA	NA	NA

29. Student progression

Student progression		Against % enrolled					
	2017-18	**2016-17**	**2015-16**	**2014-15**	**2013-14**	**2012-13**
UG to PG	00	6	11	03	NA	NA
Employed • Campus selection • Other than campus recruitment	00 03	00 00	03 03	--	NA	NA
Entrepreneurship/Self-employment	--	--	--	--	--	--

30. Details of Infrastructural facilities

a) Library-Books available

No. of Titles	No. of Volume	Project Reports	
		B.E.	**M.E.**
552	1911	72	52

b) Internet facilities for Staff & Students:-
      i. 70Mbps leased Lined Internet & Wifi Facility
      ii. Departmental Separate Computer Labs
      iii. Faculty with individual systems and internet facility

c) Classrooms with ICT facility: 03

Wifi facility has been installed. This facility can be availed by all the faculties and students in the campus.

    Number of Seminar Rooms   = 01
    Classrooms with ICT facility.
    Number of classrooms   = 06
    Number of classrooms PG   = 01
    Number of Seminar Rooms   = 01
    Number of tutorial rooms   = 01

1) Details of Classrooms

Room Descriptions	Capacity	Rooms equipped with
305	80 students	Tube lights, Fans, Curtains, Notice boards, benches, Platform, Green Board, LCD Projector and fitting, Screen

1) Details of Seminar Hall:

Room Descriptions	Capacity	Room equipped with
301	120 Students	LCD Screen, Fans, tubes, Platform, Podium, Chair with writing Desk, PA system.

2) Details of PG Class Rooms:

Room Descriptions	Capacity	Room equipped with
314	24 students	White Board, Fans, tubes, Notice boards, benches, Platform, LCD Projector and fitting, Screen

d. Details of Laboratories

Sr. No.	Name of the lab	List of Major Equipment	Cost (Rs.)
1	Engineering Mechanics Lab	Inclined Belt Apparatus	127644.00
2	Basic Civil & Environmental Engineering Lab	Digital Planimeter	586001.00
3	Geotechnical Engineering Lab	Unconfined compression tester	778383.00
		Direct shear test apparatus	
		Swell test apparatus	
		Tri-axial outfit	
4	Concrete Technology Lab	Accelerated curing tank (AIMIL)	1332095.00
		Concrete Mixer	
		Compression Testing machine (AIMIL)	
		Vibrating table (AIMIL)	
5	Environmental Engineering Lab	Single Beam UV Spectrophotometer	1014470
		Water & SOIL quality Analyzer	

6	Surveying Lab	BOD Incubator	
		COD Digester:	
		High volume sampler	
6	Surveying Lab	Total Station (Pentax R-425VN)	936929
		1" Theodolite micro-optic LNT	
7	Geology Lab	Rock Specimans	172265.00
8	UG Computer Lab	24 No. Computers along with internet facility	632500.00
9	PG Computer Lab	23 No. Computers along with internet facility with 5 Licensed	1231200
10	Testing of Materials Lab	Universal Testing M/c 1000 kN Capacity	1203539
		Impact Testing M/C	
		Torsion Testing M/C	
		Tile Flexure Testing M/C Capacity	
11	Fluid Mechanics Lab	Wind Tunnel	724975.00
		Tilting Flume	
12	Transportation Engineering Lab	Film Stripping Device	703885
		Ductility Testing machine	
		C.B.R. Test Apparatus	
		Marshalls Apparatus	

31. Number of students receiving financial assistance from College, university, government or other agencies.

Year	Category	No. of Students
2017-18	EBC	36
	NT	00
	SC	12
	OBC	27
	SBC	04
	VJ	13
	ST	05
2016-17	EBC	44
	NT	00
	SC	09
	OBC	37
	SBC	01
	VJ	13
	ST	00
2015-16	EBC	76

	NT	20
	SC	26
	OBC	38
	SBC	02
	VJ	00
	ST	00
2014-15	EBC	65
	NT	4
	SC	19
	OBC	42
	SBC	1
	VJ	00
	ST	00
2013-14	EBC	96
	NT	19
	SC	22
	OBC	41
	SBC	1
	VJ	00
	ST	00
2012-13	EBC	65
	NT	14
	SC	10
	OBC	29
	SBC	8
	VJ	00
	ST	00

32. Details on student enrichment programmes (special lectures / workshops / seminars) with external experts

Academic year 2017-18

Value Addition Programs			
Sr. No.	**Name**	**Date**	**Target Audience**
1	Revit Architecture	18/07/2017 to 20/07/2017	142

Seminars				
Sr. No.	Name of the Speaker	Topic	Date	No. of students
1	Mr.Dhaval Patil	Enterpreneurship Development In Sustainable Sanitation	11/09/2017	43
2	Mrs.Preeti Bhatia	Enterpreneurship Development	11/09/2017	108
Guest Lectures				
Sr. No.	Name of the Speaker	Topic	Date	No. of students
1	Mr. S D Pathak	Infrastructure Engineering	26/09/2017	59
2	Mr. R B Dava	Ash Bund in Thermal Power Station	19/09/2017	58

Industrial Visits			
Sr. No.	Name of the Organisation	Date	No. of Students
1	Vittalwadi Sewage Treament Plant, Pune	16/09/2017 to 18/09/2017	119
2	Karve Road Bridge, PMC, Pune	16/09/2017	95
3	Niravana Building, Baner,Pune	11/09/2017	141
4	CWPRS, khadakwasala,Pune	23/08/2017	85

Academic year 2016-17

Value Addition Programs			
Sr. No.	Name	Date	Target Audience
1	FRP (Fiber Reinforced Polymer)	19/09/2016 to 21/09/2016	53
2	SAP and safe 2000	19/09/2016 to 21/09/2016	56

Guest Lectures				
Sr. No.	Name of the Speaker	Topic	Date	No. of students
1	Dr. Shrikant Gabale	GIS and its Applications	19/01/2017	38
2	Dr. S. T. Mali	Challenges in Solid Waste	10/02/2017	30

		Management		
3	Mr. S. D. Pathak	Good Construction Practices Aim Excavation	20/02/2017	67
4	Mr. S. D. Pathak	Construction Contract Management	22/02/2017	55
5	Dr. J. R Patil	Geotechnical Aspects of pavement Design	17/03/2017	59

Industrial Visits			
Sr. No.	Name of the Organisation	Date	No. of Students
1	DSK Dream City, Hadapsar, Pune.	03/08/2016	80
2	Sewage Treatment Plant , Erandwane, Pune	20/08/2016	50
3	Sewage Treatment Plant, Naidu, Shivajinagar Pune	14/09/2016	50
4	Bhatgar Dam, Bhor, Pune.	14/09/2016	130
5	Neera Deoghar Dam, Bhor, Pune.	14/09/2016	130
6	West Brook, Tara Group, Narhe, Pune.	22/09/2016	137
7	Nanded City Pune.	23/09/2016	122
8	Universal Construction Equipments (PG Students)	18/10/2016	15
9	Shimla Manali Industrial Tour, Himachal Pradesh.	26/12/2016 to	87
10	Bhatgar Dam, Bhor, Pune (Hydro-Power)	20/02/2017	55
11	Neera Deoghar Dam, Bhor, Pune (Dams and Hydraulics)	20/02/2017	110
12	Bhatgar Dam, Bhor, Pune (Dams and Hydraulics)	20/02/2017	110
13	Lodha Amara Group, Thane (Foundation Engineering)	17/03/2017	110
14	Lodha Amara Group, Thane (Structural Design II)	17/03/2017	110
15	Ionization Filtration Industries, Pirangut, Pune.	17/03/2017	72
16	Precast India Pvt. Ltd. (PG Students)	18/03/2017	13
17	CSK Group Dhayari, Pune.	20/03/2017	72
18	Vadgaon Water Treatment Plant, Pune.	22/03/2017	71
19	Sahyadri RMC Plant Nanded City, Pune.	23/03/2017	50
20	Water Treatment Plant Warje, Pune.	24/03/2017	53

Academic year 2015-16

Research publication in seminar / conference			
Sr. No.	Name of the publication	Year	No. of students
1	Experimental Parametric Study Of Flexural RCC Beam Using GFRP Bars.	2016	4
2	Feasibility Study Of Modified Stabilization Tank For Sewage Treatment	2016	5
3	Introduction of ABS Plastic Formwork As an Alternative Option To Traditional Formwork	2016	5
4	Black Spot Analysis on Pune Bangalore National Highway	2016	4
5	Comparative Study Of Waffle Slab with Flat Slab And Conventional RCC Slab	2016	5

Value Addition Programs			
Sr. No.	Name	Date	Target
1	Practical Skill Development in "Concrete Mix Design"	21 Aug 2015 & 22 Aug 2015	108

Guest Lectures				
Sr. No.	Name of the Speaker	Topic	Date	No. of students
1	Mr. Indrajeet Jain	Design of Roof Truss	24 Sept 2015	74
2	Mr. Vishnu Ashtaputre	Quality Control Aspects in Government Works	15 Sept. 2015	79
3	Mr. Suresh Pakhare	Challenging Works in Civil Construction Industry	28 August 2015	82

Industrial Visits			
Sr. No.	Name of the Organisation	Date	No. of Students
1	Ravet Bridge, Tathawade, Pune	16 July 2015	93
2	Rohan Kritika, Sinhgad Road, Pune	30 July 2015	104
3	47 Nirvana Hills,Karve Road, Pune	10 Aug 2015	123
4	Racold Thermo Pvt Ltd. Chakan, Pune	19 Sept. 2015	85
5	Essar Steel, Chakan, Pune	19 Sept. 2015	85
6	Panshet Dam, Pune	10 Feb 2016	82
7	Water Treatment plant, Parvati, Pune	21-22 March 2016	45
8	Panshet, Varasgaon dam, katraj Tunnel,Pune	21 March 2016	43
9	Khadakwasla,Pune	29 March 2016	146

Academic year 2014-15

Guest Lectures				
Sr. No.	Name of the Speaker	Topic	Date	No. of students
1	Er. V.M. Ranade	Water Resources Development and Management	2 Aug 2014	65
2	Dr. D.N.Singh	Development in Geotechnical Engineering	2 Aug 2014	63
3	Mr. Indrajeet Jain	Design of Roof Trusses under Structural Design-I	19 Sept 2014	121
4	Mr. Anil Dandekar	Disaster Management	23 Jan 2015	60

Research publication in seminar / conference			
Sr. No.	Name of the Topic	Year	No. of students
1	Effect of Reinforcement Orientation on Compressive strength of Ferrocement and Bitumen Ferrocement.	2015	1
2	Accidental study on Pune-Solapur Highways.	2015	1
3	Black Spot Analysis On Pune Solapur National Highway	2015	1
4	Identification Of Accident Black Spot On National Highway New Katraj to Chandanni Chowk	2015	1
5	Identification Of Accident Black Spot On National Highway Expressways.	2015	1

Industrial Visits			
Sr. No.	Name of the Organisation	Date	No. of Students
1	Khadakwasala Dam, Pune	18 Sept 2014	56
2	Rohan Kritika, Sinhgad Road, Pune	23 Jan 2015	94
3	DSK Dream City, Hadpsar, Pune	10 Feb 2015	58
4	Shimla-Manali-Amritsar	8 -17 March 2015	49

Academic year 2013-14

1.Guest Lectures				
Sr. No.	Name of the Speaker	Topic	Date	No. of students
1	Prof. M. R. Apte	Equipment Management	06 Sept 2013	14
2	Mr. Uttam Awari	Engineering Mechanics	15 Feb 2014	82
3	Mr.Vaibhav Shelar	Engineering Mechanics	28 Feb 2014	113

	Industrial Visits		
Sr. No.	**Name of the Organisation**	**Date**	**No. of Students**
1	Lavasa City, Pune	25 July 2013	106
2	Indian Hume Pipe, Sinhgad Road	5 Sept 2013	42
3	Ultra Tech Cement	4 Jan 2014	105
4	Satish Bora and Associates	8 Feb2014	45
5	Jaipur Metro, Agra Industrial area	4-10 March 2014	48

Academic year 2012-13

1.Guest Lectures

Sr. No.	Name of the Speaker	Topic	Date	No. of students
1	Mr. A. S. Dandekar	Natural Disaster Management	27 Aug 2012	49
2	Mr. A. S. Dandekar	Artificial Disaster Precautions	3 Sep 2012	67
3	Mr. Sagar Patil	AUTO-CAD Sketches	6 Oct 2012	51

2.Industrial Visits

Sr. No.	Name of the Organisation	Date	No. of Students
1	Westland Residency Warje, Pune	30 Aug 2012	78
2	RMC India Pvt. Ltd. Pune	11 March 2013	41

33. Teaching methods adopted to improve student learning

Department practices an Activity based learning in addition to traditional lecture-based learning.

To improve classroom learning, department has applied following practices

- Staff members are allotted subjects as per their choice, specialization and experience
- Staff members are asked to prepare teaching plan and course file before the start of the semester.
- Each staff is asked to prepare soft copies of their notes and Powerpoint presentations for the course content. Same is shared with the students by using ERP software and in the classrooms.
- To simplify Teaching Learning process teaching aids are provided for conducting lectures.
- Models, videos, and animations are used by faculty members to elaborate concepts as per the complexity of the topic.
- Site visits are plan to clear the theoretical concept.

Project Based and Active Learning

- Students are motivated to work on-ongoing research projects at various organizations.
- Project exhibition and various technical festivals provide an opportunity for active learning.
- Expert talks and Industry expert Seminars are arranged to bridge the knowledge gap of the students.
- Industrial visits are arranged to give practical knowledge to the students.

Assessment Method
- Various tests (Unit test and Prelim, Online, etc.) are used for assessment the progress of students.
- Mock tests are conducted to evaluate the students' understanding of the subject.
- Industry experts are included during the revision of the course syllabus at university level.
- Feedback from alumni and final year student are taken into account during the revision of the PEO's at the institute.
- Indirect assessment is done through campus interviews and performance of students in competitive exams like GATE, GRE, and CAT,Civil Service Entrance Exam,UPSC Entrance Exam etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Summary of cultural events conducted in last 4 years

Sr. No.	Academic Year	Name of event	Dates
1	2016-17	Gurupournima celebration (Conducted by individual dept)	20th July 2016
2		Drawing & Quiz competition on Azadi-70	16th Aug 2016
3		Dahihandi celebration by RMDSSOE students	25th Aug 2016
4		Awareness of Organ Donation	29th Aug 2016
5		Teacher's Day (Conducted by individual dept)	6th Sept 2016
6		Sinhgad Karandak 2017 (Preliminary Round)	9th & 10th Jan 2017
7		Cultural days celebration	6th to 8th Feb 2017
8		Sinhgad Karandak (final round)	9th to 13th Feb 2017
9		Shivjayanti celebration	17th Feb 2017
10		Appreciation Program	31st March 2017
11		BE Farewell party (Conducted by individual dept)	7th Apr 2017s
12	2015-16	Gurupournima celebration (Conducted by individual dept)	31st July 2015
13		Teacher's Day (Conducted by individual dept)	5th Sept 2016
14		Mr. & Ms. Sinhgad (Preliminary round-Sinhgad Karandak 2016)	12th September 2015

15		Sinhgad Karandak	10th to 13th Jan 2016
16		Pune Jatan Youth Rally	13th Feb 2016
17		Historical weapons exhibition	20th Feb 2016
18		Cultural Days celebration	10th Mar 2016 to 12th Mar 2016
19		Appreciation Program	19th Mar 2016
20		BE Farewell party (Conducted by individual dept)	2nd Apr 2016
21		Convocation ceremony	5th Apr 2016
22		Teacher's Day (Conducted by individual dept)	5th Sept 2014
23	2014-15	Sinhgad Karandak	11th Jan 2015 to 14th Jan 2015
24		B.E. Farewell party	19th Mar 2015
25		Cultural Days celebration	20th Feb & 21st Feb 2015
26		Teacher's Day (Conducted by individual dept)	5th Sept 2013
27	2013-14	Sinhgad Karandak	29th Jan 14 to 2nd Feb 14
28		Fun fair	5th Feb 2014

Summary of all social events conducted in last 4 years

Sr. No.	Academic Year	Name of event	Dates
1		Yoga Day	21st June 2016
2		Tree plantation	1st July 2016
3		Awareness of Organ Donation by SKN Hospital Doctors	31st Aug 2016
4		Sahajyoga sessions for students & staff	Sem-I (2hrs/week)
5	2016-17	Visit to Kamayani(Mentally challenged institute)	15th Sept 2016
6		Sweet distribution to orphanage institute	24th Jan 2017
7		Blanket distribution at Swargate bus stand to needy people	25th Jan 2017
8		Lunch arrangement at Matoshri- Old age home.	26th Jan 2017
9		Poster competition on "Save the girl child"	9th Feb 2017
10		Women's Day Celebration Program	8th March 2017
11		Hemoglobin checkup for girls & lady faculty members	8th Mar 2017
12		Visit to Kamayani(Mentally challenged institute)	10th Sept 2015
13	2015-16	Sweet distribution to orphanage institute	24th Jan 2016
14		Blanket distribution at Swargate bus stand to needy people	25th Jan 2016

15		Lunch arrangement at Matoshri- Old age home.	26th Jan 2016
16		Plastic kacharaMukta Pune ShaharAbhiyan	13th Feb 2016
17		Seminar on Global Warming & Ozone Retention by Rajendra Shende	20th Feb 2016
18		Blood donation camp	3rd July 2014
19		Visit to Kamayani(Mentally challenged institute)	12th Sept 2014
20		Sweet distribution to orphanage institute	24th Jan 2015
21	2014-15	Blanket distribution at Swargate bus stand to needy people	25th Jan 2015
22		Lunch arrangement at Matoshri Old age home.	26th Jan 2015
23		Women's Day celebration	8th Mar 2015
24		Blood donation	24th Mar 2015
25		Blood Donation	16th Feb 2014
26	2013-14	Sweet distribution to orphan age institute	24th Jan 2014
27		Blanket distribution at Swargate bus stand to needy people	25th Jan 2014
28		Lunch arrangement at Matoshri Old age home.	26th Jan 2014

35. SWOC analysis of the Civil Engineering Department and future plans

SWOC Analysis

Strength Weakness Opportunity Challenges (SWOC) analysis is used to identify the acquired and inherent strengths along with weaknesses of the department. Furthermore, it is also carried out to identify the opportunities to excel and improve, to negotiate the challenges faced by the department from the internal and external environment.

Strengths:
- Learning environment is a blend of traditional teaching and Industry Interaction.
- Well maintained labs to support curriculum.
- Well structured student enrichment program.

Weaknesses:
- Lesser consultancy based projects needs to be improved.
- Consultancy work needs strengthening.

Opportunities:
- To improve results in university Exam.
- Interdisciplinary approach in research & industrial training.
- Good opportunity for community projects.
- Environmental consciousness.

Challenges:
- Induction of highly experienced faculty.
- To improve incampus placement.

Future Plans:
- To establish Research Centre.
- To implement Project Based Learning research.
- To start consultancy.

Department of Computer Engineering
Evaluative Report of the Department

1. Name of the Department: Computer Engineering

2. Year of Establishment: 2011

3. Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)

Course Offered	Name of The Course	Specialization	Year of Establishment	Intake
U.G.	B.E.	Computer Engineering	2011-12	60
	B.E.	Computer Engineering	2013-14	60
P.G.	M.E.	Computer Engineering	2012-13	24
	M.E. (2nd Shift)	Computer Engineering	2013-14	24

4. Name of Interdisciplinary courses and the departments / Units involved:

Following Interdisciplinary courses are involved in curriculum of programs:

Sr. No.	Name of the course	Department involved
1	Engineering Mathematics - III	First Year Engineering

5. Annual/ semester/choice based credit system (Programme wise)

Sr. No.	Course Offered	Programme	Duration	System	Evaluation
1	U.G.	Computer Engineering	4 years	8 Semester	Marks/ Credits
2	P.G.	Computer Engineering	2 years	4 Semester	Credits

6. Participation of the department in the courses offered by other departments:

Sr. No.	Courses offered	Department
1	Fundamentals of Programming Languages	First Year Engineering

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

Sr. No.	Name of the course	Participating institution /industry	Date	No. of. Students
1	HTML 5 and PHP	C4 Learning, Pune	July 2017	58
2	Advanced Java	Octopus ITES Pvt. Ltd., Pune	July 2017	60
3	PHP MySQL	IIT Bombay online course	July 2017	140
4	C & C++	IIT Bombay online course	July 2017	131
5	Spoken Tutorial project on JAVA	IIT Bombay online course	March 2017	157
6	Spoken Tutorial project on DRUPAL	IIT Bombay online course	March 2017	143
7	Object Oriented Programming by EDX	Stanford University online course	October 2016	157
8	Introduction to MangoDB by EDX	Stanford University online course	October 2016	143
9	Spoken Tutorial project on PHP & MYSQL	IIT Bombay online course	October 2016	143
10	Spoken Tutorial project on C++	IIT Bombay online course	October 2016	157
11	Research and Development	RDIL Pune	December 2016,March 2017	112
12	Advanced Java (STP 5 VAP), Android Development	Mass Technologies, Pune	July 2015	65
13	Spoken Tutorial project on Linux	IIT Bombay online course	March 2015	80
14	Linux Foundation Course by EDX	Stanford University online course	March 2015	67
15	Spoken Tutorial project on Linux	IIT Bombay online course	August 2014	101
16	SQL by EDX	Stanford University online course	August 2014	67
17	Spoken Tutorial project on PHP-MySQL	IIT Bombay online course	September 2014	80
18	Spoken Tutorial project on Latex	IIT Bombay online course	November 2014	42
19	Spoken Tutorial project on Latex	IIT Bombay online course	April 2014	61
20	Value Addition Program–Part I	Six Pi , Pune	July 2013	36

| 21 | Spoken Tutorial project on Linux & PHP-MySQL | IIT Bombay online course | October 2013 | 96 |
| 22 | Value Addition Program–Part II | Six Pi , Pune | December 2013 | 35 |

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. A number of teaching posts.

Programme / Teaching Post	Sanctioned	Filled
Professors	03	00
Associate Professors	06	00
Asst. Professors	19	27
Total	28	27

10. Faculty profile with name, qualification, designation, specialization (D.Sc. /D.Litt. /Ph.D. / M. Phil., etc.)

Sr. No.	Name	Designation	Qualification	Specialization	No. of years of Exp.
1	Ms. Vina Madhavrao Lomte	HOD and Asst. Prof.	M.E. (PhD Pursuing)	Computer Engineering	14.4
2	Ms. Pradnya Vilas Kasture	Asst. Prof.	M.E	Information Technology	10.5
3	Ms. Mrunalinee Sunil Patole	Asst. Prof.	M.E.	Computer Engineering	10
4	Ms. Vanita Sharad Babanne	Asst. Prof.	M.Tech	Computer Science & Engg -IT	10
5	Ms. Jyoti Sudhakar Raghatwan	Asst. Prof.	M.E.	Information Technology	9.8
6	Mr. Shrikant Nagbhushan Nagure	Asst. Prof.	M.E.	Information Technology	8.5
7	Ms. Kanchan Manohar Varpe	Asst. Prof.	M.E.	Computer Networks	8.5
8	Ms. Mohini Jalandhar Arote	Asst. Prof.	ME (PhD Pursuing)	Computer Engineering	8.5
9	Ms. Manisha Vikramsinh Desai	Asst. Prof.	M.Tech.	Computer Science & Engineering	7.5

10	Ms. Trupti Kavishrao Dange	Asst. Prof.	M.Tech.	Computer Science & Engineering	7.5
11	Mr. Shivraj Bhimashankar Kone	Asst. Prof.	M.Tech.	Information Technology	7.4
12	Mrs. Sonal Sachin Fatangare	Asst. Prof.	M.E.	Computer Engineering	7.6
13	Mr. Vishal Ashok Mogal	Asst. Prof.	M.E.	Computer Engineering	6
14	Mr. Parth Sagar	Asst. Prof.	M.E. (PhD Pursuing)	Computer Engineering	6
15	Ms. Nikhita Narendra Nerkar	Asst. Prof.	M.E.	Computer Engineering	5.7
16	Mr. Mayur Chandrakant Akewar	Asst. Prof.	M. Tech.	Computer Science & Engineering	5.5
17	Ms. Rupali Subhash Patil	Asst. Prof.	M.E.	Computer Engineering	5.5
18	Ms. Kanchan Ravindra Sonawane	Asst. Prof.	M.E.	Computer Engineering	5
19	Mr. Nitin Chopade	Asst. Prof.	M.E.	Computer Engineering	5
20	Mrs. Shafali Gupta	Asst. Prof.	M.Tech.	Computer Science & Engineering	4.3
21	Mrs. Shipla A.Chavan	Asst. Prof.	M.E.	Computer Engineering	4.2
22.	Mr. Vishal K. Borate	Asst. Prof.	M.E	Information Technology	4
23.	Mr. Viresh N. Vanarote	Asst. Prof.	M.E.	Computer Network	3.5
24.	Mr. Ritesh Bagalkoti	Asst. Prof.	M. Tech.	Computer Engineering	2.5
25.	Ms. Munmun Bhagat	Asst. Prof.	M.E.	Computer Network	2.5

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

For UG Programme

Year	% of lectures delivered			% of Practical classes handled		
	Class	**Subject**	**Percentage**	**Class**	**Subject**	**Percentage**
2016-17	SE	Computer Graphics	15%	SE	Computer Graphics Lab	10%
	TE	Embedded Operating System	20%	TE	Programming Lab III	15%
2015-16	SE	Computer Organization	15%	SE	Programming Laboratory	20%
2014-15	Nil	Nil	Nil	Nil	Nil	Nil
2013-14	Nil	Nil	Nil	Nil	Nil	Nil
2012-13	Nil	Nil	Nil	SE	Microprocessor Interfacing Technology Laboratory	100%

13. Student -Teacher Ratio (Programme wise)

Year	Student's Intake	Teacher(s)	STR
2017-18	360	25	14:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Type of Staff	Sanctioned	Filled
Technical Assistant	01	01
Lab Assistant	01	01
Administrative Staff	01	01

15. Qualifications of teaching faculty with DSC/ D.Litt. /Ph.D. / MPhil / PG.

Sr. No	Qualification	No of Teaching faculty
1	Ph. D.	00
2	Ph. D. pursuing	03
3	P.G.	24
Total		27

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 01

a) National

Mr. Ritesh Bagalkoti working on project "HPE-2248" by Indian Railways and received funding of Rs. 1,96,000/-

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: National and International Journals

a) Publication per faculty

Sr. No.	Name of Faculty	No. of papers published in peer-reviewed journals by faculty and students	No. of publications listed in National and international conference	Books with ISBN/ISSN numbers with details of publishers	Citation Index	Impact Factor	h-index
1	Ms. Vina M. Lomte	23	06	03	01	8.25	01
2	Ms. Jyoti Raghatwan	14	--	--	--	3.358	--
3	Ms. Manisha Desai	07	03	--	--	5.611	--
4	Ms. Shafali Gupta	05	--	--	--	5.618	--
5	Ms. Vanita Babanne	20	--	--	02	6.577	01
6	Ms. Nikhita Nerkar	05	--	03	01	8.53	--
7	Ms. Trupti Dange	07	--	--	02	8	--
8	Ms. Pradnya Kasture	11	02	--	--	5.081	--
9	Ms. Mrunalinee Patole	14	02	--	02	5.611	01
10	Mr. Vishal Mogal	08	--	--	02	6.39	01
11	Ms. Kanchan Varpe	10	--	--	08	4.017	02
12	Ms. Sonal Fatangare	04	--	--	--	2	--

13	Mr. Shrikant Nagure	05	02	--	--	--	--
14	Mr. Ritesh Bagalkoti	02	--	--	02	3.358	--
15	Mr. Mayur Akewar	07	--	--	--	--	03
16	Ms. Munmun Bhagat	04	03	--	03	3.712	01
17	Ms. Rajashree Dongare	02	01	--	--	4.027	--
18	Ms. Kohale Shweta	02	--	--	01	4.1	01
19	Mr. Parth Sagar	15	02	02	--	1.8	01
20	Mr. Viresh Vanarote	02	--	--	--	2	--
21	Mr. Vishal Borate	01	02	--	01	--	01
22	Mr. Shivraj Kone	--	01	--	--	--	--
23	Mrs. Shilpa Chavan	01	--	--	--	--	--
24	Mrs. Rupali Patil	02	02	--	--	--	--
25	Mrs. Mohini Arote	01	02	--	--	--	--
26	Ms. Kanchan Sonawane	01	--	--	--	2.3	--
	Total Publications	**173**	**28**	**08**		**NA**	

20. Areas of consultancy and income generated: Nil
21. Faculty as members in
a) National committees b) International Committees c) Editorial Boards: Nil

22. Student projects

UG Project Details:

Sr. No.	A.Y.	Percentage of students who have done in-house projects including interdepartmental/ programme	Percentage of students placed for projects in organizations outside the institution
1	2017-18	39%	61%
2	2016-17	88.23%	11.76%
3	2015-16	66.67%	33.33%
4	2014-15	73.33%	26.67%
5	2013-14	NA	NA
6	2012-13	NA	NA

23. Awards / Recognitions received by faculty and students
a. Awards / Recognitions received by faculty:

Sr. No.	Faculty Name	Award / Recognitions	Organization
		A.Y. 2016-17	
1	Ms. Kanchan Varpe	Top Performer & SAP Award of Excellence	IIT, Bombay
2	Ms. Pradnya Kasture	PG Teacher Recognition	SPPU, Pune
		A.Y. 2015-16	
3	Ms. Vina M. Lomte	cPGCON ACM Best Work in Progress Award	PCCOE, Pimpri Chinchwad
4	Ms. Swarupa B. Kamble	cPGCON ACM Best Work in Progress Award	PCCOE, Pimpri Chinchwad
5	Ms. Vina Lomte	PG Teacher Recognition	SPPU, Pune
6	Ms. Jyoti Raghatwan	PG Teacher Recognition	SPPU, Pune
7	Ms. Kanchan Varpe	PG Teacher Recognition	SPPU, Pune

b. Awards / Recognitions received by students:

Sr. No.	Name of Student	Award / Recognitions / Appreciations	Name of Organization
		A.Y. 2017-18	
1	Mr. Ajay Tidke & Group	Winners Dandiya Night	Dream Makers
2	Mr. Tejas Pawar	Winner in Football Sports event organized on the occasion of Maharashtra Mission 1 Million	Sinhgad Institute
3	Mr. Tanay Wagh	Appreciated for working through Intel's responsible security disclosure process	HackersEra, Pune
4	Mr. Abhishek Kulkarni	Appreciated for working through Intel's responsible security disclosure process	HackersEra, Pune
5	Ms. Gauri Patwari	Appreciated for working through Intel's responsible security disclosure process	HackersEra, Pune
6	Ms. Vaishanavi Badame	Appreciated for Third Year Topper	RMDSSOE, Warje
7	Mr. Jerin Paul	Appreciated for Second Year Topper	RMDSSOE, Warje
8	Mr. Sayali Satpute	Appreciated for Second Year Topper	RMDSSOE, Warje
9	Mr. Rajat Agarwal	Appreciated for First Year Topper	RMDSSOE, Warje

	A.Y. 2016-17		
10	Pratik Hublikar and group	Winner in Poster Competition	RMDSSOE
11	Naresh Choudhari	Winner in Box Cricket	JSPM NTC,Pune
12	Sagar Ingle and group	2nd Position in Paper Presentation	Technikala-2017,NICMAR,Pune
13	Snehal Kulkarni and group	Runner up in Paper Presentation	PVPIT,Pune
14	Neha Bhatkhande	Winner in Sinhgad Karandak chess competition	STES
15	Ashok Kumar Thakur	Runner up in Techtonic-17 Kill the Bug	RMDSSOE
16	Nikhil Ghavate & Chetan Tamboli	Winner in Code coordination	SITSNarhe
17	Neel Thoke	Best Screenplay, Maharashtra Short Film 'Hunda'	Sairaj film production
18	Neel Thoke	Award for film in 'Jatan', Pune Youth festival	Pune Municipal Corporation
19	Naresh Choudhary	Winner in Umang 2017	MOZE ,Pune
20	Manal Kanojia	Runner up Sinhgad Karandak Swimming Competition	SITS,Lonavala
21	Dhanajay Sharma & Shahid Raza	Runner up in Techtonic-17 Kill the Bug	RMDSSOE
22	Dhanajay Sharma	Winner in Technovision -2016 Programming	JSPM, Narhe
23	Rashmi Kale	Best Paper award in CPGCON	Sandip Foundation
24	Rucha Deshmukh	Best Paper award in CPGCON	Sandip Foundation
25	Yash Mehta & Group	Second prize in Poster Presentation (Category -Project)	RMDSSOE
26	Pratik Dumare & Group	Third prize in Poster Presentation (Category –Project)	RMDSSOE
27	Ajay Funde & Group	First prize in Poster Presentation (Category –Thoughtful Theme)	RMDSSOE
28	Bisht Himanshu & Group	Second prize in Poster Presentation (Category –Thoughtful Theme)	RMDSSOE
29	Injdrajeet Khadalkar & Group	Third prize in Poster Presentation (Category –Thoughtful Theme)	RMDSSOE
30	Ankita Jade & Group	First prize in Poster Presentation (Category –Thoughtful Theme)	RMDSSOE
31	Vaishanavi Badame & Group	First prize in Poster Presentation (Category –Thoughtful Theme)	RMDSSOE
32	Aakanksha Aundhkar	Third prize in Poster Presentation (Category –Technical Theme)	RMDSSOE

33	Pratik Hublikar and group	Best Innovation Award in National Level Compition-2017	G.H.Raisoni College Of Engineering & Management,Pune
		A.Y.2015-16	
34	Pradnya Badage	Runner up in Chess	Sinhgad Karandak
35	Sangita Bhosale	Runner Up in Vinodattam	Sinhgad Karandak
36	Dhananjay Sharma	1st Possition in Technovision	TSSM's BSCOE&P,Narhe
37	Radhika Potdar	Winner in Throw Ball	Sinhgad Karandak
38	Kshitija Nandgaonkar	cPGCON ACM Best Work in Progress Award	PCCOE, Pimpri Chinchwad
39	Harshal Bhosale	cPGCON ACM Best Work in Progress Award	PCCOE, Pimpri Chinchwad
40	Kanojia Manal Madanlal	Winner in Throw Ball	Sinhgad Karandak
41	Kanojia Manal Madanlal	Runner up in Swimming	Sinhgad Karandak
42	Naresh Choudhari	Winner in Cricket tournament	B.J.Medical College of Engineering, Pune
43	Naresh Choudhari	Winner in Box Cricket	JSPM NTC, Pune
44	Naresh Choudhari	Runner up in Cricket	Sinhgad Karandak
45	Vaseem Shaikh	Best outgoing Student of the Dept.	RMDSSOE, Warje
46	Vinay Modak	Social Activities(Kartavya)	Sinhgad Techtonic
47	Kunal Pardesi	Best Art Work	Sinhgad Karandak
48	Priyanka Kotkar	Best Art Work	Sinhgad Karandak
49	Sanket Tavale	Photography	Sinhgad Karandak
50	Chinmay Niphalkar	Being An Entrepreneur	RMDSSOE, Warje
51	Rohit Kulkarni	Best Art Work	Sinhgad Karandak
52	Rajshree Ladkat	Cultural Activities	Sinhgad Karandak
53	Aishwarya Khaire	Good Performance in 7th Semester	RMDSSOE, Warje
54	Pratiksha More	Social Activities(Kartavya)	Sinhgad Techtonic
55	Om Komawar	Video Compilation	RMDSSOE, Warje
56	Akshay Bartakke	Video Compilation	RMDSSOE, Warje
57	Mitesh Rampriya and Group	Best Project	RMDSSOE, Warje
58	Pratiksha More and Team	Winner in ThrowBall	Sinhgad Karandak
59	Praveen Shahu	Managing the event	RMDSSOE, Warje
60	Harsha Chotaliya	Topper in 7th Semester	RMDSSOE, Warje
61	Kalyani Dhaiber	Hardworking Student	RMDSSOE, Warje
62	Anagha Bhute	Best Art Work	Sinhgad Karandak
63	Jayesh Raghuwanshi	Runner up in Kill The Bug	Sinhgad Techtonic
64	Heramb Dhanawade And Team	Winner in 4B	Sinhgad Techtonic
65	Vishakha Navandar And Team	Winner in Project Exhibition	RMDSSOE, Warje
66	Ankit Khedlekar	Runner Up Vinodottam Drama competition "Accident"	Vinodottam Karandak

A.Y. 2014-15			
67	Chaitanya Joshi	First Prize in Blind Coding	Sinhgad Techtonic
68	Kanojia Manal Madanlal	First Prize in National Ice Skating Championship(Figure Pair Skating)	Ice skating association of India
69	Kanojia Manal Madanlal	Second Prize in National Ice Skating Championship(Figure Solo)	Ice skating association of India
70	Sumit Memane And Group	Best Project	RMDSSOE, Warje
71	Rishikesh Chandra, Sanket Pimple, Ashish Shinde, Ayush Gondhali	First Prize in Project Competition	RMDSSOE, Warje
72	Sumit Memane, Tanay Kulkarni, Onkar Nene	Second Prize in Project Competition	RMDSSOE, Warje
73	Megha Nagarhalli	Winner in Throwball	Sinhgad Karandak
74	Naresh Choudhari	Runnerup in Box Cricket	Sinhgad Karandak
75	Jerin Paul Selvan	Level 1 Award in Music Performance	Trinity College London
76	Aishwarya Tirthgirikar	Best outgoing student of the Institutes	RMDSSOE, Warje
A.Y. 2013-14			
77	Rucha Bagewadi, Harshada Pawar,Pratiksha More, Sangita Bhosale, Ketaki Tharkude, Megha Nagarhalli, Mithila Undale	Winner in ThrowBall	Sinhgad Karandak
78	Neha Bhatkhande	First Position in URJA KRIDA SPARDHA	Mahilashram Junior College,Pune
79	Chaitanya Joshi	1st Prize in Crazy Keys	Sou.Venutai Chavan Polytechnic,Pune
80	Chaitanya Joshi	3rd Posisitiion in ITE Mini Project Compitition	MKSSS's Cummins COEW,Pune
81	Manal Kanojia	1st Prize in National Ice Skating Champion Ship(figure Skating Single)	Ice skating association of India,Shimla
82	Manal Kanojia	Runner Up in Swimming	Sinhgad Karandak

24. List of eminent academicians and scientists / visitors to the department

Sr. No.	Name	Designation	Organization	Date of Visit
A.Y. 2017-18				
1	Mr. Raju Bhosale	Director	Media Magic Institute ,Pune	11/07/2017
2	Mr. Anand Bhise	Associate Prof. HOD.	Center of Development, Communication and E Learning,	11/07/2017

			Hydrabad	
3	Adv. Rajas Pingale	Owner	Netlawgic Legal Services LLP,Pune	19/09/2017
4	Mr. Vikas Chaudhari	CEO & Founder	Hackers Era, Pune	19/09/2017
5	Mr. Maharudra A. Gite	Director & Technical Business Advisor	Hackers Era, Pune	19/09/2017
6	Dr. Rekha Kulkarni	Gynecologist	Trimurti Hospital, Sinhgad Road, Pune	10/10/2017
A.Y. 2016-17				
7	Dr. Manesh Kokare	Research Dean	S.G.G.S. Institute of Engg. & Technology, Nanded	20/01/2017 & 21/01/2017
8	Mr. Atul Wadegaonkar	Director	MKCL ,Pune	5/08/2016
9	Mr.Nixon Vincent	Senior Principal QA Engineer	Calsoft , Pune	10/02/2017
10	Mr. Ravish Chadha	Manager	Calsoft , Pune	10/02/2017
11	Mr. Naval Patel	Senior Technical Head	Calsoft , Pune	10/02/2017
12	Mr. Anil Raj	Director	Cybervault Securities Solutions Pvt. Ltd. Pune)	24/06/2016
A.Y. 2015-16				
13	Mr. Prabhojot Singh Oberoi	Group Head	Oracle Pvt. Ltd., Pune	27/06/2015 & 04/07/2015
14	Mr. Rohan Kulkarni	Senior Software Developer	OCULENT Technology, Pune	14/07/2015
15	Mr. Amith Shah	Senior Software Developer	FOCUS Training Services	15/07/2015
16	Mrs. Shruti Sugvekar	Director	Image Creations, Pune	02/09/2015 & 03/09/2015
17	Mr. Subhan	Founder -	PaceCricket.com	02/09/2015 &

	Shaikh	President		03/09/2015
18	Mrs. Motiya Basargekar	Freelance Trainer	Freelance Trainer soft skills	02/09/2015 & 03/09/2015
19	Mr. Shrikant Avachar	Software Engineer	Euronet Services India Pvt. Ltd.	16/09/2015
20	Mr. R. Thirukumaran	Director	SAT Infosys, Coimbatore, Tamil Nadu	31/10/2015
21	Dr. Mahesh Deshpande	Director	Research Development & Innovation Lab, Pune	13/01/2016 & 15/01/2016
22	Mr. Amit Kalyankar	Film Actor	Choice Film & Television Institute , Kothrud, Pune	13/01/2016 & 15/01/2016
23	Mr. Raju Bhosale	Director	Choice Film & Television Institute , Kothrud, Pune	13/01/2016 & 15/01/2016
24	Dr. Pratap Deshmukh	Professor	Choice Film &Television Institute, Kothrud, Pune	13/01/2016 & 15/01/2016
25	Mr. Vijay Bagul	Software Engineer	Cybage Software Pvt. Ltd., Pune	15/01/2016 & 16/01/2016
26	Mr. Kapil Bhosale	Senior Software Engineer	FAB. Com, Pune	18/01/2016 & 19/01/2016
27	Ms. Julie Mills	Associate Director	University of south Australia	22/01/2016
28	Mr. Rishen Shekhar	Associate Director	University of south Australia.	22/01/ 2016
29	Dr. Kailas Patil	Assistant Professor	VIIT, Pune	15/02/2016
30	Dr. Supriya Kelkar	Professor	CCEW, Karve Nagar Pune	17/02/2016
31	Mr. Mahesh H. Chondhe	Software Engineer	Infosys, Pune	26/03/2016
32	Mr. Abhijeet Shinde	Software Engineer	AMDOCS, Pune	26/03/2016
A.Y. 2014-15				
33	Mr.Vijay Bagul	Senior Software Developer	Cybage Pvt.Ltd., Pune	05/07/2014
34	Mr. Sunil Lomte	Senior Data Analyst	Infosys, Pune	27/03/2015

35	Mr. Kapil Bhosal	Software Developer	Fab.com	18/01/2015 & 19/01/2015
A.Y. 2013-14				
36	Mr. Prabhojot Singh Oberoi	Developer	Oracle Pvt. Ltd., Pune	17/08/2013
37	Mr. Prasad Patil	System Engineer	IgatePatani , Pune	17/08/2013 & 24/08/2013
38	Mr. Mohammed K Ali H Jeelani	Senior Engineer	CoE IMC Global Technology Services (CMMi 3)	24/08/2013
39	Mr. Kapil Bhosale	Software Engineer	Fab.com	31/08/2013
40	Mr. Sunil Darekar	Sr. Police Inspector	Warje police station	22/02/2014
41	Ms. Sandeep Mukta	Senior Software Engineer	KPIT Cummins, Pune	15/03/2014

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Academic Year	Category	Title	Funding Agency	Coordinator	Date
2016-17	Seminar	Two Days National level Seminar on Qualitative Research Methodology with Standard Mathematical Modelling and its Real Time Applicability	SPPU-Sponsored	Ms.Shafali Gupta & Mr.Shrikant Nagure	20/01/2017 & 21/01/2017
2015-16	Workshop	One Day National Level Workshop on "Network Simulator-3"	Self-financed	Ms. Jyoti Raghatwan	31/10/2015
	FDP	Two Days National Level FDP on "Ethical Hacking using kali Linux"	SPPU-Sponsored	Ms. Kanchan Varpe	15/02/2016 & 16/02/2016

b)   International :NIL

26. Student profile programme/course wise

Academic Year	Applications Received	Selected (Total Admissions)	Enrolled		Pass Percentage
			M	F	
2017-18	Admission process in the state is only through CAP and governed by Directorate Technical Education (DTE), Government of Maharashtra. The Institute follows the rules, regulation and guidelines set by Savitribai Phule Pune University, Maharashtra State Government and AICTE.	122	78	44	---
2016-17		127	76	51	99.21
2015-16		113	71	42	84.37
2014-15		110	69	41	NA
2013-14		123	71	52	NA
2012-13		64	32	32	NA

27. Diversity of Students

Name of the Course		% of students from the same state	% of students from other States	% of students from abroad
UG	2017-2018	89.34	10.65	Nil
	2016-2017	89.76	10.23	Nil
	2015-2016	89.60	10.40	Nil
	2014-2015	93.10	6.90	Nil
	2013-2014	94.44	5.56	Nil
	2012-2013	98.53	1.47	Nil
PG Computer Engineering	2017-2018	100	00	Nil
	2016-2017	100	00	Nil
	2015-2016	100	00	Nil
	2014-2015	100	00	Nil
	2013-2014	100	00	Nil
	2012-2013	100	00	Nil

28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil services, Defense services, etc.?

Academic Year	Number of Students participated in National & State Competitive Examinations			
	GATE	GRE	TOEFL	CET
2016-17	15	04	01	01
2015-16	01	03	01	02
2014-15	Nil	01	02	Nil
2013-14	NA	NA	NA	NA
2012-13	NA	NA	NA	NA

29. Student progression

Student progression	Against no. of students enrolled					
	2017-18	2016-17	2015-16	2014-15	2013-14	2012-13
UG to PG	--	02	06	04	NA	NA
Employed Campus selection	10	42	18	16	NA	NA
Other than Campus recruitment	--	05	17	14	NA	NA
Entrepreneurship/Self-Employment	--	01	02	01	NA	NA

30. Details of infrastructure facilities

a) Library :

Sr. No.	Particulars	Numbers
1	Book Volumes	2250
2	Seminar Reports	352
3	Project Reports	115

b) Internet facilities for Staff & Students
- 70 Mbps Wired Internet facility & Wi-Fi are available for all Staff & Students
- Central Server is available with Department.

c) Classrooms with ICT facility

Sr. No.	Room Description	Capacity	Rooms Equipped with
1	405	80	Classrooms provided with LCD projectors
2	419	80	
3	420	80	
4	422	80	
5	401	130	PA system is available in Seminar Hall.

d) Laboratories: 10

The laboratories in the department are well equipped with i3 and i5 processors, 2GB and 4GB RAM, 500GB HDD with internet facility and Wi-Fi device.

Sr. No.	Curriculum Lab Description	Room Number	Major Equipements	Softwares	Cost (Rs.)
1	Project Laboratory	406	1-24 port switch, 1-16 port switch, 30- HP Optiplex 280	Java,Eclipse,Gcc, g++,Visual Studio13	10,39,825/-
2	PG Laboratory	409	1-24 port switch, 1-16 port switch, 23- Dell Optiplex 390	Netbeans,Qt Creator,Java ,Python, gcc,g++, weka tool	6,02,825/-
3	System Software Laboratory	410	1-24 port switch, 1-16 port switch, 24-Dell Optiplex 390	netbeans, Java , Nasm, gcc, g++, php, python	6,28,825/-
4	Programming language Laboratory	411	1-24 port switch, 1-16 port switch, 23-Dell Optiplex 390	Qt Creator, Eclipse, gcc, g++, Python	7,98,325/-
5	Data Mining Laboratory	415	1-24 port switch, 1-16 port switch, 24-Dell Optiplex 3020	Lex, &yacc, GCC compiler, NASM, Java, SBCL, Nsight (Cuda Platform)	8,69,185/-
6	Computer Network Laboratory	416	1-24 port switch, 1-16 port switch, 24-Dell Optiplex 3010 10-Nvidia GPU Ge Force graphics card	Qt Creator, Netbeans, gcc,g++ Antivirus	5,92,825/-
7	Programming Language Laboratory II	417	1-24 port switch, 1-16 port switch, 22-Dell Optiplex 3020	Netbeans,Java, gcc, g++, Eclipse,Android toolkit, HTML 5	7,97,155/-
8	Hardware Laboratory	418	10-Digital trainer board, 10-8086	NA	3,52,900/-

			Microprocessor kit , 4-Stepper Motor , 4-8253 Interfacing, 4-8259 interfacing, 4-8251 interfacing, 4-8255 interfacing, 4-D/A converter, 4-A/D converter, 4-Temp Control Study, 10-SMPS with cable, 4-TR-STP-MOTOR, 10-Digital Trainer Kit		
9	Computer Laboratory-I	423	1-24 port switch, 1-16 port switch, 24-Dell Optiplex 3010	Python,gcc, g++, android, Java, Netbeans,Qt Creator	5,92,825/-
10	Software Laboratory	516	1-24 port switch, 1-16 port switch, 12- Dell Optiplex 3020 12- Dell Optiplex 390	TASM 1.5,Turbo C++	7,49,005/-

31. Number of students receiving financial assistance from college, university, Government or other agencies:

Year	Category	No. of Students
2017-18	SC	17
	OBC	36
	SBC	04
	VJNT	14
	ST	00
	EBC	77
2016-17	SC	9
	OBC	31
	SBC	0
	VJNT	8
	ST	0

	EBC	77
2015-16	SC	4
	OBC	29
	SBC	0
	VJNT	7
	ST	0
	EBC	73
2014-15	SC	5
	OBC	21
	SBC	0
	VJNT	3
	ST	0
	EBC	80
2013-14	SC	4
	OBC	19
	SBC	0
	VJNT	7
	ST	0
	EBC	93

32. Details on student enrichment programmes (Special lectures /Workshops / Seminar) with external experts

Academic Year	No. of special lectures /Workshops / Seminars
2017-18	12
2016-17	20
2015-16	15
2014-15	05
2013-14	12

Sr. No.	Special lectures /Workshops / Seminar	Name of the Programme	Name of Expert / Coordinator	No. of Students	Date
A.Y. 2017-18					
1	Seminar	Career opportunities in	Mr. Anand bhisey	106	11/07/ 2017

		the creative fields			
2	Workshop	Android App development Workshop	Mr. Nitish Kumar	74	16/08/2017
3	Seminar	Career guidance & Technical Awareness Program	Mr.Amulya Rathan	137	31/08/2017
4	Special lecture	Feasibility Analysis	Mrs. Rupali Pandhrapate	83	08/09/2017
5	Special lecture	VHDL	Mr. Ashish Khadlak	63	15/09/2017
6	Special lecture	Engineering Economics	Mr. Prashant Patil	58	19/09/2017
7	Workshop	Cyber Security	Mr. Vikas Choudhari	22	19 /09/2017 & 20/09/2017
8	Workshop	Java Skill Development	Mr.Rahul Sharma	82	22/09/2017
9	Workshop	Cloud Computing Workshop	Mr.Kushal Sharma	96	25/09/2017
10	Seminar	Current Trends of the Industry	Mr. Sahil Sharma	73	05/10/2017
11	Seminar	Women's Health	Dr. Rekha Kulkarni	75	10/10/2017
12	Special lecture	Object Oriented Programming Standard Template lib. and Files	Mr. Anuj Raut	79	10/10/2017
A.Y. 2016-17					
1	Seminar	Cyber Security	Mr. Anil Raj	89	24/06/2016
2	Seminar	Artificial Intelligence	Mr.Mahesh Gaikwad	93	27/06/2016
3	Seminar	Career Advancement in GATE Exam	Mr.Devendra Marathe	31	21/07/2016
4	Seminar	Research & Development Program	Dr.Mahesh Deshpande	107	1/09/2016

		– Need of Research for Young Generation			
5	Workshop	MongoDB	Mr. Tushar Kute	67	7/09/2016
6	Special lecture	Theory of Computation	Ms. Shwetambari Chiwhane	125	9/09/2016
7	Workshop	Big Data Analytics	Mr.Tushar Kute	78	14/09/2016
8	Seminar	Project based Learning	Prof.Ian Clark	78	22/09/2016
9	Workshop	Object Oriented Programming	Mr. Khushal Khairnar	118	23/09/2016
10	Special lecture	Advance Tool Technology of XILINX 14.7 & VHDL	Mr.Dhanjay Gaikwad	56	27/09/2016
11	Special lecture	Principle of Modern Compiler Design Lab	Mr. Rajesh Lomte	104	28/09/ 2016
12	Seminar	Practical Approach to Cloud & Utility Computing"	Mr.Dnyneshwar Aghao	81	7/10/2016
13	Special lecture	Computer Graphics	Ms. Pimprale Varsha	101	23/01/ 2017
14	Workshop	Android	Mr.Tejas Bhalerao	42	9/02/2017 & 10/02/2017
15	Workshop	Ethical Hacking	Prof. Mayur Jain	49	13/02/2017
16	Special lecture	Principles of Programming Language	Ms.Prachi Godbole	143	17/02/2017
17	Special lecture	Advanced Data Structures	Dr. Sonali patil	142	23/02/2017
18	Special lecture	Undoing Lord Macaulay	Dr. Vijay Gokhale	109	23/02/2017
19	Workshop	NVIDIA CUDA Programming	Mr. Kastubh Hiwarkar	110	27/02/2017
20	Workshop	Parallel Programming	Mr.Ramkrushna Maheshwat	118	17/03/2017
A.Y. 2015-16					
21	Workshop	Advances in Oracle Technology	Mr. Prabhojot Singh	46	27/06/2015
22	Workshop	Oracle Database 11 g	Mr. Prabhojot Singh	56	4/7/2015
23	Workshop	Red hat Open Source Technology	FOCUS Training Services	73	15/07/2015
24	Special lecture	DAA – N QUEEN Problems	Mr. S. S Deshmukh,	54	07/08/2015

25	Workshop	Ethical Hacking using Kali Linux	Mr. Saurabh Patil	49	11/09/2015
26	Special lecture	DSPS-Data Structure & Problem Solving	Mr. Shrikant Avachar	85	16/09/2015
27	Special lecture	DSPS – Lab Practical Assignments	Mr. Dhore Vaibhav	85	19/09/2015
28	Workshop	Workshop on NS3	Mr. R. Thirukumaran	22	31/10/2015
29	Workshop	Ethical Hacking : Tricks for New Generation	Mr. Saurabh Patil	57	14/01/2016
30	Workshop	Android Development : SMART APP under TECHTONIC-16	Mr.Vijay Bagul	85	15/01/2016 & 16/01/2016
31	Special lecture	Embedded Operating System	Dr. Supriya Kelkar	69	17/02/2016
32	Special lecture	Microprocessor Programming	Ms. Anita Gunjal	116	24/02/2016 & 25/02/2016
33	Workshop	Pre-Placement Training	Mrs. Shruti Sugwekar	88	02/09/2015 & 03/09/2015
34	Special lecture	QT Creator	Mrs. Rupali Vairagade	62	19/03/2016
35	Workshop	Cuda Installation and Programming	Mr. Kaustubh Hiwarkar	72	22/03/2016
		A.Y. 2014-15			
36	Workshop	Android under TECHTONIC -15	Mr. Vijay Bagul	51	18/01/2015 & 19/01/2015
37	Workshop	HADOOP under TECHTONIC -15	Mr. Kapil Bhosal	21	18/01/2015 & 19/01/2015
38	Special lecture	Programming using QT Creator	Mr. S. M. Chitalkar	45	20/03/2015
39	Special lecture	Practical approach towards Image Processing using Digital Signal Processing	Mr. Virendra Dakhode	88	13/03/2015
40	Special lecture	Discrete Structure	Mr. Nihar Ranjan	62	19/10/2014
		A.Y. 2013-14			
41	Special lecture	Printers And	Mr. Mahendra	52	12/08/2013

		Microcontrollers	Salunkhe		
42	Special lecture	AVL Tree	Mr. N.G. Bhojane	70	31/08/2013
43	Special lecture	Filter Design in DSP	Mr. P.S. Deshpande	50	14/09/2013
44	Special lecture	Loaders And Linkers	Ms. P. N. Vengurlekar	53	04/01/2014
45	Special lecture	NASM	Mr. Mahendra Salunkhe	58	21/02/2014
46	Special lecture	Shell Script	Mr. Prasad Patil	56	17/08/2013
47	Special lecture	Perl Script	Mr. Prasad Patil	70	24/08/2013
48	Special lecture	Emerging Trends in IT	Mr. Ali Mahommad	46	24/08/2013
49	Workshop	OracleDatabase 11g	Mr.Prabjiot Singh Oberoi	56	17/08/2013
50	Workshop	Hadoop & Map Reduce Programming	Mr.Kapil Bhosale	54	31/08/2013
51	Workshop	Matlab	Mr. S.S.Biradar	44	07/09/2013
52	Workshop	Rich Internet Applications	Ms.Sandeep Mukta	44	15/03/2014

List of Industrial visit organized

Sr. No.	Name of the Industry/Organisation	Location	Date
1	C DAC	SPPU, PUNE	30/08/2017 & 31/08/2017
1	Girnar Soft	Jaipur	04/01/2017
2	Persistent Systems	Hinjewadi	14/02/2017
3	C-DAC	SPPU,Pune	29/09/2016
4	Ruler Dynasty Infotech Pvt. Ltd.	Amritsar, Punjab	02/02/2016 to 10/02/2016
5	The Brihaspati Infotech.	Chandigarh, Punjab	28/02/2015 to 07/03/2015
6	Fabcoders	Goa	04/03/2015
7	Pepper Square.	Banglore	05/03/2014 to 10/03/2014
8	C-DAC	Aundh, Pune	12/09/2013

33. Teaching methods adopted to improve student learning

Learning must be meaningful and appropriate for the student's cultural environment. Experiences must be varied and hence atmosphere of support is provided. The active involvement of all students should be cognitive, aesthetic, physical and social dimensions and it is the key in a comprehensive engineering program.

We utilize the following model that enhances the teaching learning process.
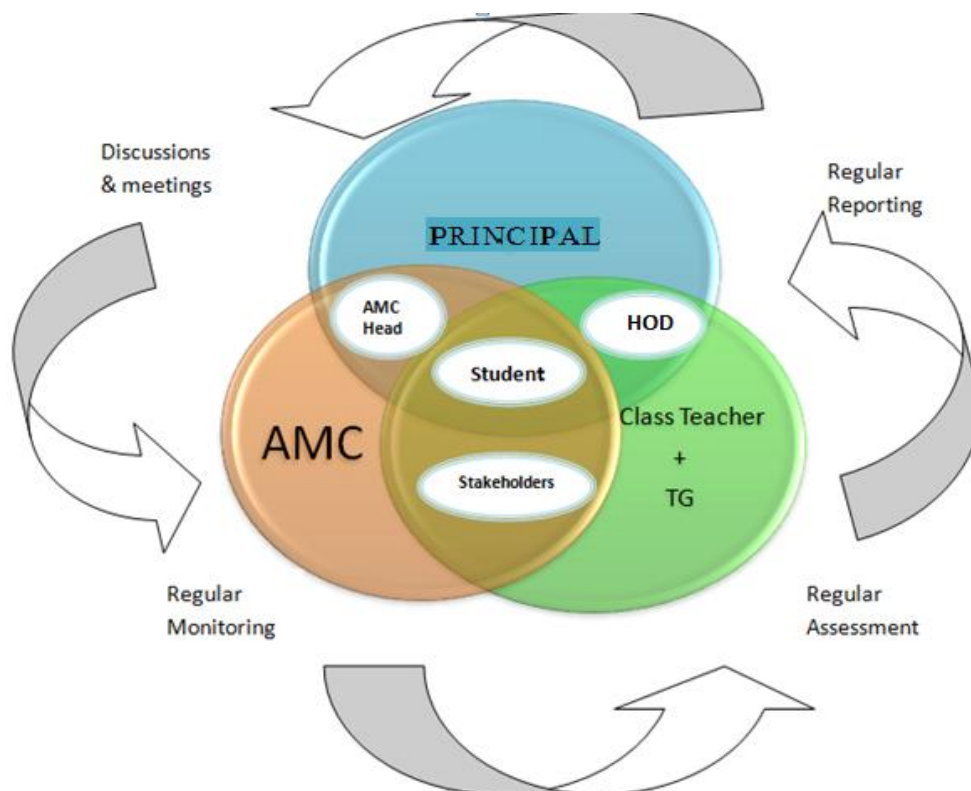
Figure 1: Teaching Learning Process

Effective Learning involves the following modules:
1. **Quality of teaching:** All Faculties of the department are Post Graduate and some of them are Ph.D. pursuing with good experience in academics. Quality of teaching is maintained by upgrading knowledge of the staff with recent trends and technologies of the industries by attending various Seminars, Workshops, Conferences, STTP etc.
2. **Prior knowledge:** Although some prior knowledge is required to understand the concepts best, the teaching faculty always uses bullet pointers to refresh the concepts that are required. Some of the methods adopted by our faculties are question answer sessions, discussion on previously topics taught.
3. **Readiness:** All faculty members make use of state of the art facilities like power point presentations, available educational resources from online portal in order to get the student better clarification of points.
4. **Environment:** The faculty always maintains a technically fun and light environment that helps the students to grasp the points quickly. The use of projectors and other equipment aids the staff to clear the points.
5. **Pedagogical Activity:** Various activities like Board Game, Videos, Roll Play Power Point Presentations, Chart Making, Quiz are arranged on various subject to enrich & clarify the student concepts of the subject.

The teaching methodologies vary according to the heterogeneous group of students. For the benefit of the students we adopt following teaching and learning practices:
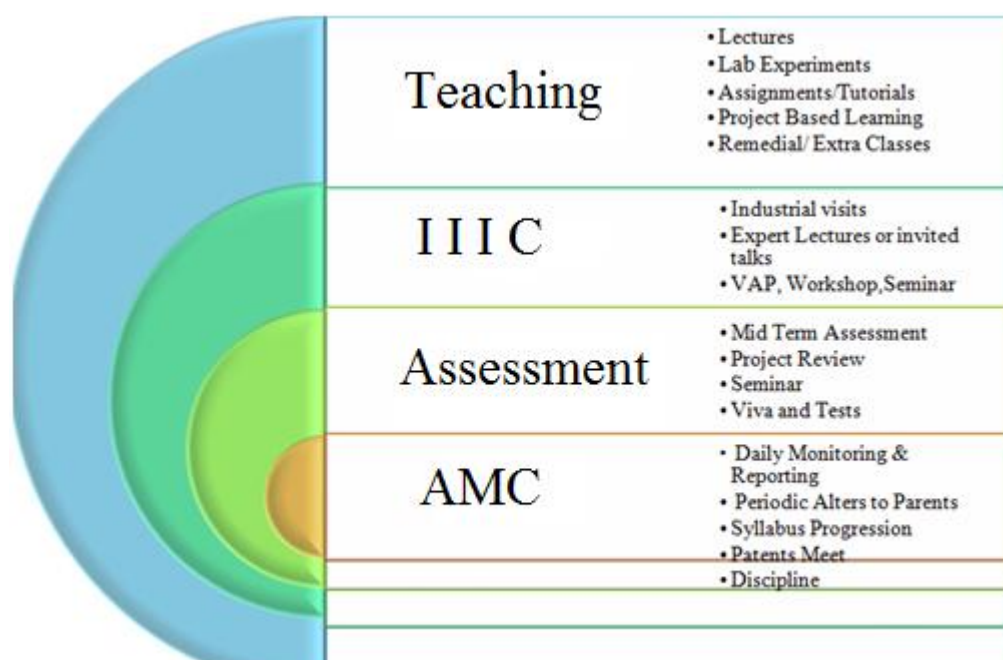
Figure 2. Best teaching and learning practices

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Summary of cultural events conducted in last 4 years

Sr. No.	Academic Year	Name of event	Dates
1		Convocation Ceremony & Alumni Meet	30th Jan 2017
2		SE Induction	14th July 2017
3		FE Induction	1st Aug 2017
4		Sinhgad Silver Jubilee Celebration	21st Aug 2017 to 25th Aug 2017
5	2017-18	Teacher's Day	5th Sept 2017
6		Gurupournima celebration	20th July 2016
7		Drawing competition on Azadi-70	16th Aug 2016
8		Dahihandi celebration by RMDSSOE students	25th Aug 2016
9	2016-17	Teacher's Day	6th Sept 2016
10		Sinhgad Karandak 2017 (Preliminary Round)	9th & 10th Jan 2017
11		Cultural days celebration	6th to 8th Feb 2017
12		Sinhgad Karandak (final round)	9th to 13th Feb 2017
13		Shinjayanti celebration	17th Feb 2017

14		Appreciation Program	31st March 2017
15		BE Farewell party	7th Apr 2017
16		Gurupournima celebration	31st July 2015
17		Teacher's Day	5th Sept 2015
18		Mr. & Ms. Sinhgad (Preliminary round-Sinhgad Karandak 2016)	12th Sept 2015
19		Sinhgad Karandak	10th to 13th Jan 2016
20	2015-16	Pune Jatan Youth Rally	13th Feb 2016
21		Historical weapons exhibition	20th Feb 2016
22		Cultural Days celebration	10th Mar 2016 to 12th Mar 2016
23		Appreciation Program	19th Mar 2016
24		BE Farewell party	2nd Apr 2016
25		Convocation ceremony	5th Apr 2016
26		Teacher's Day	5th Sept 2014
27	2014-15	Sinhgad Karandak	11th Jan 2015 to 14th Jan 2015
28		B.E. Farewell party	19th Mar 2015
29		Cultural Days celebration	20th Feb & 21st Feb 2015
30		Teacher's Day	5th Sept 2013
31	2013-14	Sinhgad Karandak	29th Jan 2014 to 2nd Feb 2014
32		Fun fair	5th Feb 2014

Summary of all social events conducted in last 4 years

Sr. No.	Academic Year	Name of event	Date
1		International Yoga Day	21st June 2017
2		Tree Plantation	14th July 2017
3	2017-18	Social Visit to Kesari Wada, Shanivar Wada, Pune in the memories of Freedom Fighter to celebrate 75th year of Quit India Movement	14th Aug 2017
4		Seminar on Women's Health Awareness	10th Oct 2017
5		Workshop on Basic Computer Literacy for Primary School Teacher	12th Oct 2017
1		Yoga Day	21st June 2016
2		Tree plantation	1st July 2016
3		Awareness of Organ Donation by SKN Hospital Doctors	31st Aug 2016
4	2016-17	Sahajyoga sessions for students & staff	Sem-I (2hrs/week)
5		Visit to Kamayani (Mentally challenged institute)	15th Sept 2016
6		Sweet distribution to orphanage institute	24th Jan 2017

7		Blanket distribution at Swargate bus stand to needy people	25th Jan 2017
8		Lunch arrangement at Matoshri- Old age home	26th Jan 2017
9		Poster competition on "Save the girl child"	9th Feb 2017
10		Women's Day Celebration Program	8th Mar 2017
11		Hemoglobin checkup for girls & lady faculty members	8th Mar 2017
12		Visit to Kamayani(Mentally challenged institute)	10th Sept 2015
13		Sweet distribution to orphanage institute	24th Jan 2016
14	2015-16	Blanket distribution at Swargate bus stand to needy people	25th Jan 2016
15		Lunch arrangement at Matoshri- Old age home	26th Jan 2016
16		Plastic kacharaMukta Pune ShaharAbhiyan	13th Feb 2016
17		Seminar on Global Warming & Ozone Retention by Rajendra Shende	20th Feb 2016
18		Blood donation camp	3rd July 2014
19		Visit to Kamayani(Mentally challenged institute)	12th Sept 2014
20		Sweet distribution to orphanage institute	24th Jan 2015
21	2014-15	Blanket distribution at Swargate bus stand to needy people	25th Jan 2015
22		Lunch arrangement at Matoshri Old age home	26th Jan 2015
23		Women's Day celebration	8th Mar 2015
24		Blood donation	24th Mar 2015
25		Sweet distribution to orphan age institute	24th Jan 2014
26	2013-14	Blanket distribution at Swargate bus stand to needy people	25th Jan 2014
27		Lunch arrangement at Matoshri Old age home	26th Jan 2014
28		Blood Donation	16th Feb 2014

35. SWOC analysis of the department and Future plans

SWOC analysis is mandatory for improving strengths, overcoming weaknesses, to avail the opportunities and to face the challenges. Keeping this view at department level, we do SWOC analysis with the help of its stakeholders through written and oral feedback mechanisms. SWOC of the department can be considered as following

Positive factors

Strengths:

* Retention rate of staff
* Goal based team work culture
* Regular industrial exposure to faculty and students
* Disciplined and conducive learning environment
* Regular emphasis on extra-curricular and social activities.

Oppurtunities:

* To undertake interdisciplinary projects.
* Focus on IPR (Intellectual Property Rights).
* Enhancement of research activities.
*Collaborative research work and lab development with industries
* Faculty qualification up-gradation
* Improving placement.

Internal factors   **External factors**

Weakness:

* Lack of consultancy work
* Less publications in esteemed journals.
* Less faculty with Ph.D. qualification

Challenges:

* Cope-up with corporate expectations within given time constraint
* Sustainability in global competition
* Dynamic variations in curriculum to adapt new technologies
* Inspire students for project development for society needs.

Negative factors

Figure: 3 SWOC Analysis

Future Plans

1. Time bound up-gradation of faculty qualification.
2. Skill based VAPs with the support of industrial experts.
3. Alumni interactions on regular basis.
4. To set up center of excellence in specific domain.
5. To promote R&D and consultancy work.

Information Technology
Evaluative Report of the Department

1. **Name of the Department**: Information Technology

2. **Year of Establishment:** 2011

3. **Names of Programs / Courses offered (UG, PG, MPhil, Ph.D., Integrated Masters, Integrated Ph.D., etc.):**

Course offered	Name of the course	Specialization	Year of Establishment	Intake
U.G.	B.E.	Information Technology	2011-12	60
P.G	M.E. (Second Shift)	Information Technology	2013-14	24

4. **Names of Interdisciplinary courses and the departments/units involved:**

Following Interdisciplinary courses are involved in curriculum:

Sr. No.	Name of Interdisciplinary course	Department
1	Engineering Mathematics – III	First Year Department

5. **Annual/ semester/choice based credit system (program wise):**

Sr. No.	Course Offered	Programme	Duration	System	Evaluation
1	U.G.	Information Technology	4 years	8 Semester	Marks/CGPA
2	P.G.	Information Technology	2 years	4 Semester	CGPA

6. **Participation of the department in the courses offered by other departments**:

Sr. No.	Courses Offered	Department
1	Management of Information Systems	Mechanical Engineering
2	Fundamentals of Programming Language-I	First Year Department
3	Fundamentals of Programming Language-II	First Year Department
4	Distributed Operating Systems	Computer Engineering

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

Sr. No.	Name of the course	Participating institution /industry	Date	No of Students
1	Spoken tutorial based software course on "Linux" & "Core Java"	IIT Bombay and MHRD Government of India	June 2016	134
2	Microsoft .NET(C# & ASP.NET)	Microsoft/ATS solutions	June 2015	13
3	Spoken tutorial based software course on "Linux"	IIT Bombay and MHRD Government of India	June 2013	172
4	Spoken tutorial based software course on "Latex"	IIT Bombay and MHRD Government of India	June 2013	248
5	Spoken tutorial based software course on "C Programming"	IIT Bombay and MHRD Government of India	June 2013	269
6	Spoken tutorial based software course on "CPP Programming"	IIT Bombay and MHRD Government of India	June 2013	175

8. Details of courses/program discontinued (if any) with reasons: Nil

9. Number of teaching posts:

Teaching Post	Sanctioned	Filled
Professors	1	0
Associate Professors	3	0
Asst. Professors	10	12
Total	14	12

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. /Ph.D. / M. Phil. Etc.,):

Sr. No.	Name	Designation	Qualification	Specialization	No. of Years of Experience
1	Mrs. Sweta Kale	Asst. Professor & HOD	M.Tech.	Computer Engineering	14 Yrs.
2	Mr. D. A. Meshram	Asst. Professor	M.E.	Informatiom Technology	13 Yrs.
3	Ms.Pratibha P. Chavan	Asst. Professor	M.E.	Informatiom Technology	12 Yrs.
4	Mrs. Snehal Nargundi	Asst. Professor	M.E.	Informatiom Technology	12 yrs.

5	Mrs. Suvarna Potdukhe	Asst. Professor	M.E.	Computer Engineering	12 yrs.
6	Mrs. Seema Shirke	Asst. Professor	M.E.	Computer Science & Technology	12 yrs.
7	Mrs. Prachi Sorte	Asst. Professor	M.E.	CSE-IT	9 yrs.
8	Mrs. Prajkata S. Kulkarni	Asst. Professor	M.E.	Informatiom Technology	8 yrs
9	Ms. Yogita R.Wankhade	Asst. Professor	M.E.	Computer Network	8 yrs.
10	Ms. Shivganga Mujgond	Asst. Professor	M.E.	Informatiom Technology	7 yrs
11	Mr. Sanjeevkumar Angadi	Asst. Professor	M.E.	Computer Science & Engineering	6 yrs

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical handled (program wise) by temporary faculty: Nil

13. Student-Teacher Ratio (program wise):

Year	Students' Intake	Teacher(s)	STR
2017-18	180	11	16:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: 02

Sr. No	Type of Staff	Sanctioned	Filled
1	Technical Assistant	02	02

15. Qualifications of teaching faculty with DSc. / D.Litt/ Ph.D/ MPhil/PG:

Sr. No	Qualification	No of Teaching faculty
1	PhD	0
2	PhD Pursuing	1
3	P.G.	10
	Total	**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. Faculty Publications:

Sr. No.	Name of Faculty	No. of papers published in peer-reviewed journals	No. of pub. listed in International / National Conference	Impact Factor
1	Ms. Sweta Kale	6	1	5.6
2	Mr. D. A. Meshram	4	0	4.06
3	Ms. Pratibha Chavan	4	3	6.3
4	Ms. Snehal Nargundi	5	0	4.1
5	Ms. Suvarna Potdukhe	10	2	6.2
6	Ms. Seema Shirke	3	1	4.06
7	Ms. Prachi Sorte	8	1	6.5
8	Mr. Suhas Chavan	2	3	0.8
9	Ms. Prajakta Kulkarni	6	0	5.1
10	Ms Yogita Wankhade	3	3	3.8
11	Ms. Shivganga Mujgond	12	2	5.6
12	Mr. Sanjeevkumar Angadi	5	0	6.391
Total Papers Published: 84				

20. Areas of consultancy and income generated: Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards: Nil

22. Student projects

a) Percentage of students who have done in-house projects including interdepartmental/programme

b) Percentage of students who have done industry projects:

Sr. No.	Description	2017-18	2016-17	2015-16	2014-15
(a)	Percentage of students who have done in-house projects including interdepartmental/ programme	64.28 %	94.12%	100%	100%

(b)	Percentage of students who have done industry projects	35.71 %	5.88%	NIL	NIL

23. Awards/ Recognitions received by faculty and students:

a. Awards/Recognitions received by faculty:

Sr. No.	Name of Faculty	Details of Awards / Recognitions	Organization	Reference Number/Date
1	Ms. Snehal Nargundi	PG Teacher	SPPU	BUTR/Engg/29/230 Dated:25/02/2017
2	Ms. Pratibha Chavan	PG Teacher	SPPU	BUTR/Engg/30/230 Dated:25/02/2017
3	Ms. Suvarna Potdukhe	PG Teacher	SPPU	BUTR/Engg/31/230 Dated:5/04/2017
4	Ms. Seema Shirke	PG Teacher	SPPU	BUTR/Engg/32/230 Dated:25/02/2017
5	Ms. Sweta Kale	PG Teacher	SPPU	BUTR/Engg/16/559 Dated:25/05/2015
6	Mr. D. A. Meshram	PG Teacher	SPPU	BUTR/Engg/09/559 Dated:25/05/2015

b. Awards / Recognitions received by students:

Academic Year	Name of Student	Details of Awards / Recognitions	Organization
2017-18	Nachiket Venkatgiri	Playback Singer in Kannada Film Industry	Film Industry
2016-17	Sachin Pai	Participated in various Marathon, coordinator-Blood Donation Mission, Student Leader at 7th Bhartiya Chhatra Sansad (Indian Student Parliament)	Sate-level and National-level Events
	Sayyam Shah	First Prize in Concepts'17, Category 6. Digital Signal Processing/Speech	Impetus and Concepts'17, a National Level Technical Symposium, PICT, Pune

		Processing/ Image Processing	
	Ambar Patki	First Prize in Football	Syncytium 2017, SKN Medical College and General Hospital, Pune
	Ambar Patki	Football	Sinhgad Karandak 2016-17
2015-16	Mayur Mahajan (B.E.)	Participated in Inter Campus in the Sport event of Football	Sinhgad Karandak Sports 2015-16
	Mayur Mahajan (B.E.)	Event Management of Let's FOOTBALL	AAPLE KARTAVYA 2016
	Sonal Niwalkar, NikitaTathawade	Winner of Throw ball	Sinhgad Sports Karandak-2015
2014-15	Anuj Shrivastava (B.E.)	Qualified for the Final Round of Talentika 2015 a State Level Leadership Competition and successfully completd the District Level Rounds	Lotus Business School (Approved by AICTE, Govt of Maharashtra and Affiliated to University of Pune)
	Amol Kahat (B.E.)	1st Prize in the Quiz Competition	Department of Information Technology, RMDSSOE
	Amol Kahat (B.E)	Qualified for the Final Round of Talentika 2015 a State Level Leadership Competition and successfully completd the District Level Rounds	Business School (Approved by AICTE, Govt of Maharashtra and Affiliated to University of Pune)
2014-15	Vikrant Pawar (B.E.)	Secured 1st Prize in Individual Kata/Individual Kumite	2nd National Level Karate Championship organized by Complete Karate-DO Academy, Karnataka
	Vikrant Pawar (B.E.)	Silver Medal in the individual KATA	25th National World Funakoshi Shotokan Karate Championship 2014
2013-14	Ashutosh Patil (T.E.)	2nd Prize in Jhumroo (Dance)	SVIMS, Pune
	Vikrant Pawar (T.E.)	Silver Medal in the Kumite event	Maharashtra State Level World Funakoshi Shotokan Karate Championship-2014
	Vikrant Pawar (T.E.)	Gold Medal in the 1st Pune City Muay-Thai Championship-2014	1st Pune City Muay-Thai Championship-2014
	Vikrant Pawar (T.E.)	Participated in the Malaysian Open SKA Karate Championship	Malaysian Open SKA Karate Championship-2014
2012-13	Anuj	2nd Prize for "Nishabd"	Antar Rotary Club

	Shrivastava (S.E.)	Antar Rotary Club Akankika Spardha 2012-13	Akankika Spardha 2012-13

24. List of eminent academicians and scientists / visitors to the department:

Sr. No.	Name	Designation	Organization	Purpose of Visit	Date
1	Dr.Vijay Gokhale	Technical Director	Sterling System Pvt., Ltd., Pune, Pi Tech Solutions	To provide platform to the second, third, final year students to learn &discuss about How to be Entrepreneur.	23/02/2017
2	Dr. Aditya Abhyankar	Dean	Department of Technology, SPPU, Pune	ME-IT 2013 Course Syllabus Discussion and Dissertation	04/08/2014
3	Prof. G.V. Garje	Chairman	Board of Studies, UoP, Pune	ME-IT 2013 Course Syllabus Discussion and Dissertation	04/08/2014

25. Seminars/ Conferences/Workshops organized & the source of funding:

Academic Year	Category	Title	Funding Agency	Date
2016-17	Workshop	Trends in Internet Technologies & its Applications	STES	03/01/2017 to 09/01/2017
	Workshop	Let's Make App	STES	09/02/2017
2015 – 16	Workshop	Project Design and Development	STES	28/08/2015
		Network Simulator-3	STES	31/10/2015
		Big Data Analytics on Hadoop	Savitribai Phule Pune University	29/02/2016 & 01/03/2016
2014-15	Workshop	ME-IT 2013 Course Syllabus Discussion and Dissertation	STES	04/08/2014
		Content Management System	STES	25/09/2014 & 26/09/2014
2013-14	Workshop	Introduction to Python Programming	STES	10/09/2013
		LaTex	STES	11/10/2013 &12/10/2013
		Hands on Hadoop	STES	15/03/2014

26. Profile program /course wise:

Admission process is centralized and data is available with DTE

Academic Year	Applications received (CAP Allotment @ 80%)	Selected (Total Admissions)	Enrolled		Pass percentage
			M	F	
2017-18		62	38	24	---
2016-17	Admission process in the state is only through CAP and governed by Directorate of Technical Education (DTE), Government of Maharashtra. The Institute follows the rules, regulation and guidelines set by Savitribai Phule Pune University, Maharashtra State Government and AICTE.	61	34	27	96.94 %
2015-16		61	45	16	92.53 %
2014-15		48	34	14	100 %
2013-14		56	38	18	NA
2012-13		66	38	28	NA

27. Diversity of Students

Name of the Course	Academic Year	% of student from same state	% of student from other state
UG	2017-18	96.78	3.22
	2016-17	87.10	12.90
	2015-16	83.60	16.39
	2014-15	83.33	16.67
	2013-14	98.21	1.79
	2012-13	93.93	6.07

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Academic Year	Number of Students participated in National & State Competitive Examinations			
	GATE	GRE	TOEFL	CAT
2016-17	11	2	1	0
2015-16	0	1	0	0
2014-15	0	1	1	0

29. Student progression

Student Progression	2017-18	2016-17	2015-16	2014-15
UG to PG	--	01	--	02
Employed Campus selection	02	10	22	06
Employed other than campus recruitment	---	05	05	09

30. Details of Infrastructural facilities

a. **Library Books Available:**

Department	No. of Titles	No. of Volume	Project Reports	Conference Proceedings
IT	437	1574	70	05

b. **Internet facilities for Staff & Students:**
   i.   70 Mbps Leased Line Internet & Wi-Fi Facility
   ii. Departmental separate Computer Labs
   iii. Faculty with individual system and Internet facility

c. **Classrooms with ICT facility:** 03

Room Description	Usage	Capacity	Rooms equipped with
522	Final Year Classes	66 Students	LCD, Computer and wi-fi
523	Third Year Classes	76 Students	
524	Second Year Classes	76 Students	

Laboratories: 08

Sr. No.	Name of the lab	Major Equipments and software	Cost (Rs.)
1	Project Lab	24 Computer System Dell Optiplex, 2nd Generation Core i3 Processor(3.30 GHz), 2 GB RAM(DDR3), Dell Monitor(18.5"), USB Keyboard, Optical Mouse, 1 Switch 24- Port 1 Switch 16- Port Ubuntu 14.0,OpenGL 2.1 Mesa 8.02	876092.67
2.	Seminar & Technical Communication Lab.	24 Computer System Dell Optiplex, 2nd Generation Core i3 Processor(3.30 GHz), 2 GB RAM(DDR3), Dell Monitor(18.5"), USB Keyboard, Optical Mouse, 1 Switch 24- Port 1 Switch 16- Port Ubuntu 14.0,OpenGL 2.1 Mesa 8.02	---
3.	Computer Networks Lab	24 Computer System Dell Optiplex, 2nd Generation Core i3 Processor(3.30 GHz), 2 GB RAM(DDR3), Dell Monitor(18.5"), USB Keyboard, Optical Mouse, 1 Switch 24- Port 1 Switch 16- Port Ubuntu 14.0	827448.88
4	Software Development Tool Lab	24 Computer System Dell Optiplex, 2nd Generation Core i3 Processor(3.30 GHz), 2 GB RAM(DDR3), Dell Monitor(18.5"), USB Keyboard, Optical Mouse, 1 Switch 24- Port 1 Switch 16- Port Ubuntu 14.0	919790.17
5.	Database Management Systems Laboratory	24 Computer System Dell Optiplex, 2nd Generation Core i3 Processor(3.30 GHz), 2 GB RAM(DDR3), Dell Monitor(18.5"), USB Keyboard, Optical Mouse, 1 Switch 24- Port 1 Switch 16- Port Ubuntu 14.0	---
6.	Programming Lab	24 Computer System Dell Optiplex, 2nd Generation Core i3 Processor(3.30 GHz), 2 GB RAM(DDR3), Dell Monitor(18.5"), USB Keyboard, Optical Mouse, 1 Switch 24- Port 1 Switch 16- Port	876092.67

		Ubuntu 14.0	
7.	Operating System Laboratory	24 Computer System Dell Optiplex, 2nd Generation Core i3 Processor(3.30 GHz), 2 GB RAM(DDR3), Dell Monitor(18.5"), USB Keyboard, Optical Mouse, 1 Switch 24- Port 1 Switch 16- Port Ubuntu 14.0	---
8.	Graphics & Multimedia Lab	24 Computer System Dell Optiplex, intel core i5 Processor(3. 20 GHz), 4 GB RAM(DDR3), Dell Monitor(18.5"), USB Keyboard, Optical Mouse 1 Switch 24- Port 1 Switch 16- Port Ubuntu 14.0	982224.75

31. Number of students receiving financial assistance from college, University, government or other agencies:

Academic Year	Category	No. of Students
2017-18	SC	2
	OBC	21
	SBC	1
	VJNT	5
	ST	0
	EBC	30
2016-17	SC	3
	OBC	17
	SBC	0
	VJNT	1
	ST	0
	EBC	44
2015-2016 2015-2016	SC	2
	OBC	14
	SBC	0
	VJNT	1
	ST	0
	EBC	42
2014-2015	SC	1
	OBC	6
	SBC	0
	VJNT	0
	ST	0
	EBC	38
2013-2014	SC	1

OBC	18
SBC	0
VJNT	2
ST	0
EBC	42

32. Details on student enrichment programmes (special lectures/workshops/ Seminar) with external experts:

a. **Guest Lectures**

Academic Year: 2017-18					
Sr. No.	**Name of Expert**	**Organization**	**Subject**	**Date**	**Number of Participants**
1	Mr. Vikash Chaudhary	HackersEra Cyber Security	Ethical Hacking	5/07/2017	75
2	Mr. Yogesh Ranga	The Chopras	Higher Studies	23/8/2017	30
3	Mr. Amulya Ratan	Vani Institute	Competitive Exams	31/8/2017	82
4	Mr.Dwipay Diwan	Gig India	Skill Development	13/9/2017	66
5	Mr. M.V. Nimbalkar	---	Computer Organization & Architecture	15/9/2017	51
Academic Year: 2016-17					
Sr. No.	**Name of Expert**	**Organization**	**Subject**	**Date**	**Number of Participants**
1	Mr. Dinesh Joshi	--	Importance of QALR, AMCAT	8/7/2016	33
2	Mr. Sachine Nagawade	Shreya Academy	Competitive Exams	20/7/2016	61
3	Mr. Kalyana Raman	Vodafone	Road Safety Awareness	27/7/2016	65
4	Mrs. Bharati Vasgi	--	Theory of Computation	7/9/2016	46
5	Mrs. Hemlata Jadhav	--	Computer Organization and Architecture	23/9/2016	76
6	Mr. Aniket Phadatare	Career Launcher	Recent Trends in IT	23/9/2016	71
7	Mr. G. Saravanan	ICT Academy	Orientation Lecture on Awareness of Technology	03/01/2017	60
8	Mr. Devendra Marathe	GATE FORUM	Orientation Lecture on GATE Exam	12/01/2017	22
9	Mr. Mahesh Bodhgire	ecoRise Software Solutions, Pune	Orientation Lecture on Project Design and Implementation	07/02/2017	31
10	Mr. Pavan Jaiswal	--	Basics of Programming	23/02/2017	35
11	Mrs. H. M. Jadhav	--	Processor Architecture & Interfacing	28/02/2017	55

Academic Year: 2015-16					
Sr. No.	**Name of Expert**	**Organization**	**Subject**	**Date**	**Number of Participants**
1	Mr. Manishkumar Singh	ATS InfoTech Learning Solutions,Pune	.NET and Cloud Computing	21/08/2015	56
2	Mr. Vivek Upadhyay	ISUN Solutions,Pune	SAP	25/08/2015	71
3	Mrs. Rajashri Varma	CEO, Arth System, USA	A way to Entrepreneurship	05/01/2016	52
4	Mr. Mahesh Giri	GB Systems, Pune	How to Crack Interviews	22/01/2016	46
5	Mr. Shailendra	Oracle, Pune	Java Technology	05/02/2016	29
6	Mrs. B. R. Kanawade	--	Processor Architecture and Interfacing	10/02/2016	60
7	Mr. Manishkumar Singh	ATS InfoTech Learning Solutions, Pune.	Network Security	11/02/2016	55
Academic Year: 2014 – 15					
Sr. No.	**Name of Expert**	**Organization**	**Subject**	**Date**	**Number of Participants**
1	Dr. Prasanna Jog	--	Agile Development Process and Related Project Ideas	18/07/2014	53
2	Mr. Nitin Sadubattula	CEO, Open Air Training Solutions Pvt. Ltd., Pune	Case Study on Software Testing	22/07/2014	43
3	Mr. Siddhant Bhushan	Cognizant Technology Solutions Pvt. Ltd.	Mobile Application Development Using Android	02/08/2014	90
4	Mr. Bipin Kulkarni	Bitwise Infosystem Pvt. Ltd. ,Pune	I Cloud	05/08/2014	51
5	Mr. Dilip Singh	Innovative Solutions,Pune	Seminar on Overseas Education and Innovative Entrepreneurship Ideas	22/08/2014	48
6	Mr. Kunal Parmar System Engineer	Infosys, Pune	Hadoop	25/08/2014	74
7	Mr. Anil Raj	Cyber Vault Solutions Pvt. Ltd., Pune	Current Trends in Information Security	27/08/2014	99
8	Mrs. Ashlesha Menavlikar	Cadence Design Systems Inc., Pune	Recent Trends in VLSI	20/09/2014	56
Academic Year: 2013-14					
Sr. No.	**Name of Expert**	**Organization**	**Subject**	**Date**	**Number of Participants**

1	Mr. Amit Giri	Blink Consultancy,Pune	Database Architecture and Application	29/06/2013	35
2	Mrs. Kalpana Thakre	--	Functional Dependencies and Normalization	03/08/2013	47
3	Mr. Punit	IBM,Pune	SAP	07/08/2013	104
4	Mrs. Yogini Bhamre	Persistent Pvt. Ltd. ,Pune	Software Testing Tools and Techniques	17/8/2013	75
5	Mrs. Pinky Chetwani	IBM,Pune	Mainframe	24/08/2013	123
6	Mr. Punit.	IBM,Pune IBM,Pune	Behavioral Skills and Personality Development	07/09/2013	40
7	Dr. Rajesh Ingale	--	"Plagiarism"	13/09/2013	20
8	Mr. Rahul Dhond	Clearlogy Solutions Pvt. Ltd. ,Pune	Hadoop and Big Data	14/09/2013	55
9	Mr. S Kulkarni	--	Design of Digital Logic and Circuits	20/09/2013	51
10	Mr. Rajesh Agrawal	Technowings Inc.,Pune	Introduction to Eclipse and Programming in Java	07/01/2014	52
11	Mr. Anand Kamble	Saama Technologies,Pune	Server side Programming in Java	07/03/2014	64
12	Mr. Saurabh Prasad	Nvidia,Pune	Introduction to Interactive Graphics	15/03/2014	102
13	Dr. Nilesh Uke	--	Introduction to Computer Animation and its applications	19/03/2014	56
14	Mr. Yogesh Khairnar	--	Cloud Computing - Recent Trends and Research Areas	19/03/2014	15
15	Mr. Sushant Gote	--	Importance of Analysis of Algorithm and NP-Hard and NP-complete problems	26/03/2014	55
16	Mrs. Sumedha Shirsikar	--	Multi-routing Protocol and Applications	27/03/2014	15
17	Mrs. Kalpana Thakre	--	Query Processing, Decomposition and Distributed Query Optimization	28/03/2014	17
18	Dr. Prasanna Jog	--	Agile Methodology - Recent Trends and Research Areas	03/04/2014	36

b. Workshops

Academic Year: 2016-17				
Sr. No.	**Name of Expert**	**Organization**	**Subject**	**Date**	**Number of Participants**
1	Ms.Sonal Kakar	Freelance Software	Trends in Internet Technologies &	3/01/2017-09/01/2017	27

Sr. No.	Name of Expert	Organization	Subject	Date	Number of Participants
			its Applications		
2	Mr. Vaibhav Vaidhya	Camimac Softwares India Pvt Ltd	Lets Make App	09/02/2017	40

Academic Year: 2015-16

Sr. No.	Name of Expert	Organization	Subject	Date	Number of Participants
1	Mr. Aniket Gujrathi	Seimens Pvt. Ltd.	Project Design and Development	25/08/2015	49
2	Mr. Ashish Bhatia	IBM, Pune	Big Data Analytics on Hadoop	29/2/2016 & 1/3/2016	40
3	Mr. R. Thirukumaran	Director of SAT Infosys, Coimbatore, Tamil Nadu	Network Simulator-3	30/10/2015	50

Academic Year: 2014 – 15

Sr. No.	Name of Expert	Organization	Subject	Date	Number of Participants
1	Dr. Aditya Abhyankar	Dean, SPPU, Pune	ME-IT 2013 Course Syllabus Discussion and Dissertation	04/08/2014	15
2	Prof. G.V Garje	Chairman, BoS –IT, SPPU,Pune	ME-IT 2013 Course Syllabus Discussion and Dissertation	04/08/2014	15
3	Mr. Nilesh Deshmukh,	Udaradhi Technologies Pvt. Ltd., Pune	Content Management System	25/9/2014 & 26/9/2014	43

Academic Year: 2013-14

Sr. No.	Name of Expert	Organization	Subject	Date	Number of Participants
1	Mr. Satyajit Ranjeev & Haridas N	mQuotient Technologies, Pune	Introduction to Python Programming	10/08/2013	43
2	Mr. A.S. Rumale	--	LaTex	11/10/2013 & 12/10/2013	40
3	Mr. Kunal Parmar	Infosys, Pune	Hands on Hadoop	15/03/2014	12

c. Value Addition Programmes

Academic Year: 2017-18

Sr No	Name of Expert	Subject	Date	Number of Participants
1.	Mr. Jayant	Big data and Hadoop	10/07/2017 to 12/07/2017	48

	Mohite			
Academic Year: 2016-17				
Sr No	**Name of Expert**	**Subject**	**Date**	**Number of Participants**
1.	Mr. Jayant Mohite	Big data and Hadoop	8/09/2016 to 10/09/2016	43
2.	Mr. Mahesh Bodhgire	Android Application Development	8/09/2016 to 10/09/2016	17
Academic Year: 2015-16				
Sr No	**Name of Expert**	**Subject**	**Date**	**Number of Participants**
1	Mr. Bipin Kulkarni	Cloud Computing	08/09/2015 to 11/09/2015	67
Academic Year: 2014-15				
Sr No	**Name of Expert**	**Subject**	**Date**	**Number of Participants**
1	Mr. Sanjeevkumar Angadi	Big Data and Hadoop	16/06/2014 to 15/09/2014	20
Academic Year: 2013-14				
Sr No	**Name of Expert**	**Subject**	**Date**	**Number of Participants**
1	Mr. Suhas Chavan	Core Java	27/07/2013 to 28/09/2013	48

d. Industrial Visits

Academic Year: 2016-17		
Sr. No.	Name of Industry	Date
1.	Cogniizant Technology Solutions	18/03/2017
2.	Persistent systems Ltd	24/02/2017
3.	Fabcoders Co.Pvt. Ltd, Panji Goa.	09/01/2017
Academic Year: 2015-16		
1.	Beta Soft Systems Pvt. Ltd., Chandigarh	15/02/2016
2.	Persistent systems Ltd	05/02/2016
3.	Cogniizant Technology Solutions	27/06/2017
Academic Year: 2014-15		
Sr. No.	Name of Industry	Date
1.	Persistent systems Ltd	28/03/2015
2.	The Brihaspati Infotech Pvt. Ltd., Harayan.	28/02/2015
Academic Year: 2013 – 14		

Sr. No.	Name of Industry	Date
1.	Papper Square Pvt. Ltd. , Banglore	13/02/2014
Academic Year: 2012 – 13		
1.	Mazik Global Tech Solution Pvt Ltd., Hyderabad	09/03/2013

33. Teaching methods adopted to improve student learning:

1. Traditional as well as Modern teaching methods are adopted.

2. Various teaching methods like Collaborative method, Demonstrations and Multimedia Learning Techniques are followed by the staff members.
3. Unit-wise assignments are given to the students apart from the regular question banks.
4. Practices like Group Discussions, Seminars, oral questions and Quizes are adopted as a part of classroom teaching.
5. Focus on student-centered teaching is practiced by the Faculty members.

To improve classroom learning, department has applied following practices

- Teaching load is distributed as per the teacher's subject choice and specialization.
- Prior to the commencement of the semester, teachers are asked to prepare teaching plan and course file.
- Every faculty member prepares hand-written notes along with the power point presentations which are shared to the students in classrooms and through google groups.
- For better understanding of the concept, videos and animations are used by the faculty members.
- Extra Lab experiments and numericals are given in the form of homework to the students.
- Problem solving and practice sessions are incorporated in the time table.

Project Based and Active Learning

- Every semester, new subjects are introduced as a Value addition courses/certification through IITB. This activity helps in improving the technical skill.
- Students are suggested to continue the technical seminar topic of Third Year as their project topic in their final year.
- Various technical events are organised by the students.
- Eminent personalities from Industry are invited to conduct lectures/seminar so as to bridge the gap between academics and industry.
- Tests like QALR, AMCAT are conducted to enhance the employability skills of the students.

Assessment Method

- Theory assessment is done through Unit tests, Preliminary Examination.
- Continuous assessment is done in the practical sessions for each experiment.
- Periodically Mock tests are conducted.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

1. Students participate in Blood Donation Camp, Orphans relief measure, organ donation activity, Road Safety Awareness and Tree Plantation program.
2. Promotion of leadership and team building qualities is done through extra/co-curricular activities such as NSS, Technical Festivals, Cultural activities, various days like Engineer's Day, Teacher's Day.
3. Students participated in NSS Winter Special Camp from 10th December to 16th December   under which various activities like Cleaning at School Campus, Survey of Village, Waste water management, Cleaning at cemetery, Blood Donation Camp, Compost khat, Tree Plantation, Painting to school compound wall, Women Empowerment Program, Street Play & Guest Lecture, were conducted.

Summary of all cultural events conducted in last 4 years

Sr. No.	Academic Year	Name of event	Dates
1	2016-17	Gurupournima celebration (Conducted by individual dept)	20th July 2016
2		Drawing competition on Azadi-70	16th Aug 2016
3		Dahihandi celebration by RMDSSOE students	25th Aug 2016
4		Teacher's Day (Conducted by individual dept)	6th Sept 2016
5		Sinhgad Karandak 2017 (Preliminary Round)	9th & 10th Jan 2017
6		Cultural days celebration	6th to 8th Feb 2017
7		Sinhgad Karandak (final round)	9th to 13th Feb 2017
8		Shinjayanti celebration	17th Feb 2017
9	2015-16	Mr. & Ms. Sinhgad (Preliminary round-Sinhgad Karandak 2016)	12th September 2015
10		Sinhgad Karandak	10th to 13th Jan 2016
11		PMC Rally	13th Feb 2016
12		Historical weapons exhibition	20th Feb 2016
13		Appreciation Program	19th Mar 2016
14		Convocation ceremony	5th Apr 2016
15		BE Farewell party (Conducted by individual dept)	2nd Apr 2016
16		Teacher's Day (Conducted by individual dept)	5th Sept 2016
17		Gurupournima celebration (Conducted by individual dept)	31st July 2015
18		Cultural Days celebration	10th Mar 2016 to 12th Mar 2016
19	2014-15	Sinhgad Karandak	11th Jan 2015 to 14th Jan 2015
20		B.E. Farewell party	19th Mar 2015

21		Cultural Days celebration	20th Feb & 21st Feb 2015
22	2013-14	Sinhgad Karandak	29th Jan 14 to 2nd Feb 14
23		Fun fair	5th Feb 2014

Summary of all social events conducted

Sr. No.	Academic Year	Name of event	Dates
1	2017-18	Kamayani School for Mentally Challenge	20th July 2017
2		Yoga Day	21st June 2016
3		Tree plantation	1st July 2016
4		Awareness of Organ Donation by SKN Hospital Doctors	31st Aug 2016
		Sahajyoga sessions for students & staff	Sem-I (2hrs/week)
5		Visit to Kamayani(Mentally challenged institute)	15th Sept 2016
6	2016-17	Sweet distribution to orphanage institute	24th Jan 2017
7		Blanket distribution at Swargate bus stand to needy people	25th Jan 2017
8		Lunch arrangement at Matoshri- Old age home.	26th Jan 2017
9		Hemoglobin checkup for girls & lady faculty members	8th Mar 2017
10		Poster competition on "Save the girl child"	9th Feb 2017
11		Visit to Kamayani(Mentally challenged institute)	15th Sept 2015
12		Sweet distribution to orphanage institute	24th Jan 2016
13		Blanket distribution at Swargate bus stand to needy people	25th Jan 2016
14	2015-16	Lunch arrangement at Matoshri- Old age home.	26th Jan 2016
15		Swachchhata Abhiyan	13th Feb 2016
16		Seminar on Global Warming & Ozone Retention by Rajendra Shende	20thFeb 2016
17		Blood donation camp	3rd July 2014
18		Visit to Kamayani(Mentally challenged institute)	15th Sept 2014
19		Sweet distribution to orphanage institute	24th Jan 2015
20	2014-15	Blanket distribution at Swargate bus stand to needy people	25th Jan 2015
21		Lunch arrangement at Matoshri Old age home.	26th Jan 2015
22		Women's Day celebration	8th Mar 2015
23		Blood donation	24th Mar 2015
24	2013-14	Blood Donation	16th Feb 2014
25		Sweet distribution to orphan age institute	24th Jan 2014

26		Blanket distribution at Swargate bus stand to needy people	25th Jan 2014
27		Lunch arrangement at Matoshri Old age home.	26th Jan 2014
28		Women Help Awareness by Maharashtra Police	5th Jan 2013
29		Sweet distribution to orphan age institute	24th Jan 2013
30	2012-13	Blanket distribution at Swargate bus stand to needy people	25th Jan 2013
31		Lunch arrangement at Matoshri Old age home	26th Jan 2013
32		Poster competition on "Say no to domestic violence"	28th Feb 2013

35. SWOC analysis of the department and Future plans

Strengths:
- Experienced Faculty
- Participation in curricular and extra curricular activities
- Close monitoring of student performance and system by regular communication with parents.

Weaknesses:
- Research culture
- Faculty qualification improvement

Opportunities:
- Industrial projects to be done
- Enhancement of Entrepreneurship development activities.

Challenges:
- Result Improvements
- Improving student's communication skills
- Adaptive preparation of students to sustainability in competitive global world.

Future Plan:
- Promote Faculty for Research & Development work

Placement Improvemen

Department of Electronics and Telecommunication Engineering

Evaluative Report of the Department

1. Name of the department: Electronics and Telecommunication Engineering

2. Year of Establishment: 2011

3. Names of Programs / Courses offered:

Course offered	Name of the course	Specialization	Year of Establishment	Intake
U.G.	B.E.	Electronics and Telecommunication Engineering	2011-2012	60
P.G.	M.E.	E&TC (VLSI & Embedded System)	2012-2013	**18**

4. Names of Interdisciplinary courses and the departments/units involved:

Following Interdisciplinary courses are involved in curriculum of programs:

Sr.No	Name of Interdisciplinary course	Department
1	Engineering Mathematics-III	First Year Engineering

5. Annual/ semester/choice based credit system (programme wise):

Sr. No.	Course Offered	Programme	Duration	System	Evaluation
1	U.G.	Electronics and Telecommunication Engineering	4 years	8 Semesters	Marks/ Credits
2	P.G.	E&TC (VLSI & Embedded System)	2 years	4 Semesters	Credits

6. Participation of the department in the courses offered by other departments:

Sr.No.	Courses Offered	Department
1	Electronics and Electrical Engineering	Mechanical Engineering
2	Mechatronics	Mechanical Engineering
3	Basic Electronics Engineering	First Year Engineering

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 posts	Sanctioned	Filled
Professors	02	00
Associate Professors	04	00
Asst. Professors	12	**16**
Total	**18**	**16**

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil., etc.,)

Sr. No	Name of faculty	Designation	Qualification	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1.	Mrs. Snehal A. Bhosale	HOD/Asst. Professor	M.E. / Pursuing PhD	Electronics	16.5 Years	NA
2.	Mr. Anant R. More	Asst. Professor	M.E. / Pursuing PhD	Electronics	17 Years	NA
3.	Mr. Rajesh U. Shekokar	Asst. Professor	M.E. / Pursuing PhD	Electronics	15 Years	NA
4.	Ms. Kalpana J. Amrutkar	Asst. Professor	M.E.	VLSI and Embedded	11.5 Years	NA
5.	Mrs. Nandini V. Dhole	Asst. Professor	M.E.	Digital System	09 Years	NA
6.	Mrs. Jyoti A. Sangogi	Asst. Professor	M.E.	VLSI and Embedded	8.5 Years	NA
7.	Mr. Sachin P. Magadum	Asst. Professor	M.E.	Electronics	7.5 Years	NA
8.	Ms. Pradnya Surkutwar	Asst. Professor	M.E.	VLSI and Embedded	06 Years	NA
9.	Ms. Saylee S. Begampure	Asst. Professor	M.E. / **Pursuing PhD**	Signal Processing	06 Years	NA
10.	Ms. Rupali A. Patil	Asst. Professor	M.E.	VLSI and Embedded	03 Yrs	NA
11	Mr. Ashish Kadlag	Asst. Professor	M.E.	VLSI and Embedded	04 Yrs	NA
12	Mrs. Mrunali P. Makawana	Asst. Professor	M.E.	Signal Processing	01Yrs	NA

| 13. | Mrs. Asawari Y. Bhalerao | Asst. Professor | M.E. | VLSI and Embedded | 04 Months | NA |

11 List of Senior Visiting Faculty: Nil

12 Percentage of Lectures delivered, and practical classes handled [Program wise] by temporary Faculty: Nil

13 Student Teacher ratios:

Year	Students Intake	Teacher(s)	STR
2016-2017	180	**13**	**14:1**

14 Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Type of Staff	Sanctioned	Filled
Technical Assistant	01	**00**
Lab Assistant	01	01

15 Qualification of teaching faculty

Sr. No	Qualification	No of Teaching faculty
1	PhD pursuing	**04**
2	P.G.	09
	Total	13

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 grant received: Nil

18 Research Center /Facility recognized by the university: Nil

19. Publication

Sr. No	Name of Faculty	No. of papers published in peer-reviewed journals Faculty/students	Number of publications listed in National\ International National conference	Impact Factor
1	Mrs. Snehal A. Bhosale	9	11	2.1
2	Mr. Nitin D. Dhoot	1	-	3.35
3	Mr. Anant R. More	7	9	2.17
4	Mrs. Varsha Kshirsagar	1	-	2.32
5	Mr. Rajesh U. Shekokar	15	18	2.1
6	Ms. Kalpana J. Amrutkar	5	8	6.39
7	Mrs. Nandini V. Dhole	2	11	6.57
8	Mrs. Jyoti A. Sangogi	1	1	1.21
9	Ms. Saylee S. Begampure	3	2	3.75
10	Mr.Ashish A. Kadlag	2	1	4.11
11	Ms. Rupali A Patil	2	-	4.11
12	Mr. Vijaykumar D. Shinde	7	6	5.72
13	Mr. Prashant Lahane	1	1	0.52
14	Mrs. V.V. Deshmukh	3	3	1.85
15	Mr. Sachin Magdum	-	**2**	-
16	Ms. Mrunali Makwana	-	1	-
	Total	**54**	**59**	**74**

20. Areas of consultancy and income generated: Nil

21 Faculty as members in

a) National committees b) International Committees c) Editorial Boards

Sr.No.	Committees	Name of Staff
1	(IJCTT) International Journal of computer Trends and Technology Board Member	Mr. A. A. Kadlag

22. Student projects

Sr. No.	Description	2017-18	2016-17	2015-16	2014-15
(a)	Percentage of students who have done in-house projects including interdepartmental/ programme	--	79.11	71.27	64.59
(b)	Percentage of students placed for projects in organizations outside the institution	100	20.89	28.73	35.41

23. Awards/ Recognitions received by students & faculty:

a) Awards/ Recognitions/Appreciations received by faculty:

Academic Year	Name of The Faculty	Details of Awards / Recognitions/Appreciations	Organization
2017-2018	Mrs. Snehal Bhosale	Best Paper Award	3rd International Conference on Computing , Communication , Control and Animation (ICCUBEA-2017)
	Mr. Nitin Dhoot	Elite certification, 24th rank for course Basic Electronics	NPTEL Online Certificate
	Mr. Rajesh Shekokar	AS Judge for the e-PGPEX Judge	AISSMS, College of Engg/ MES college of Engg. Pune
	Mrs. Snehal Bhosale	AS Judge for the state level IETE Project Competition	IETE, Pune
	Mr. Rajesh Shekokar	AS Judge for the state level IETE Project Competition	
	Mr. Anant More	AS Judge for the state level IETE Project Competition	
	Ms. Mrunali Makwana	Qualified for Ph.D. final Interview	SPPU, Pune
	Ms. Rupali Patil		
	Ms. Nandini Dhole		
	Ms. Kalpana Amrutkar		
2015-2016	Mrs.Snehal Bhosale	PG Teacher Recognition	S.P.P.U, Pune
	Mr. Rajesh Shekokar	PG Teacher Recognition	S.P.P.U, Pune
	Ms. Kalpana Amrutkar	PG Teacher Recognition	S.P.P.U, Pune
	Mr. Rajesh Shekokar	Coordinator of State level workshop on " Mathematical	Institute

	Modeling & Signal Processing	
Ms. Kalpana Amrutkar	Coordinator of State level workshop on " Mathematical Modeling & Signal Processing "	Institute
Ms. Kalpana Amrutkar	Certificate of Appreciation as Cultural Coordinator	Institute
Mrs. Nandini Dhole	Certificate of Appreciation as Techtronic 2K16 Department Coordinator	Institute
Mr. Nitin Dhoot	Online Exam Observer Appreciation	Institute
Mrs. Varsha Kshirsagar	FE Induction & Online Examination Coordinator Appreciation	Institute

b) Awards / Recognitions received by students:

Inter -institute Awards received by students

Academic Year	Name of The Student	Details of Awards / Recognitions	Organization
2017-2018	Ruchita Raut Krutika lodha Trisha Patel	Winner at Accenture Innovative Challenges	Accenture, Pune
	Alisha Shaikh Priyanka Patil Radhika Kulkarni	First prize in State level IETE project competition	IETE, Pune
	Hiral Soni	Successfully completed 3 week internship program at centre for communication ,Media, Aalborg university, Denmark	Aalborg University,Denmark
	Bhosale Sagar Darshankar Soham Dhavale Kiraneshwar	Technical and Financial sponsorship	Free sponsorship at OPULENT Infotech Pvt. Ltd. Pune
	Mahamuni Sanskruti Mhatre Rutuja Patel Ankita Shantaram	Technical and Financial sponsorship	E-maestro Academy, Pune
	Esha Bitutkar	Featured as a miniature artist on international artist page	Miniature Artist
	Atendra Pathak	Technical and Financial sponsorship	Educate To Automate Pvt. Ltd. Pune
	Aditya Joshi Tejas Khairnar Neeraj Jadhav	Technical sponsorship	Educate To Automate Pvt. Ltd. Pune
	Ajaysinh Rajput Pratik Bachal Kalpesh Choudhary	Technical sponsorship	Educate To Automate Pvt. Ltd. Pune

	Trisha Patel Krutika Lodha Ruchita Raut	Technical sponsorship	Educate To Automate Pvt. Ltd. Pune
	Abhishek Khatri Amit Gogawale Shubham Hande	Technical sponsorship	Educate To Automate Pvt. Ltd. Pune
2016-2017	Sakshee Devre	Runner up in "Mr. & Ms. Sinhgad" event of Sinhgad Karandak 2017	Sinhgad Technical Education Society, Pune
	Swapnil Karmalkar	Runner-up in Techtonic (Roboblitz)	RMDSSOE, Warje
	Ankita Patel Sourabh Patil	First Prize in Techtonic (Technoshot)	RMDSSOE, Warje
	Abhishek Tagalpallewar	First Prize in Techtonic (Fox Hunt)	RMDSSOE, Warje
	Vishal Mane	Runner-up in Techtonic (Fox Hunt)	RMDSSOE, Warje
	Preeti Kumari	Runner-up in Techtonic (Roadies Engineers)	RMDSSOE, Warje
2015-2016	Manish Patil	Winner at Technical Paper Presentation	VIT, Pune
	Swapnil Badhe	Runner up (Cricket Match)	B J Medical College, Pune
	Sanket Deshpande	Best Actor in Vinodottam Karandak	One Kid Foundation, Pune
	Manish Patil Sidhant Chaskar Vivek Mahalpure	First Prize in Paper Presentation	PVPIT, Pune
	Ms.Esha Bijutkar	First Prize in "Ms.Sinhgad" at Mr. and Ms. Sinhgad event of SINHGAD KARANDAK	Sinhgad Technical Education Society, Pune
2014-2015	Swapnil Badhe	Runner up (Cricket Match)	Sinhgad Technical Education Society, Pune
	Sonali Gaikwad Sarika Chavan	First Prize in Techtonic (Kaun Banega Circuitpati competition)	RMDSSOE, Warje
	Jinay Nahar Suhas Nikam Vinayak Kamble	Runner up in Techtonic (Kaun Banega Circuitpati competition)	RMDSSOE, Warje
	Sayali Ajabe Pratiksha Rane Aishwarya Pawar	First Prize in Project competition	RMDSSOE, Warje
	Ranjan Sharma Akshay Yadav Deepika Sharma	Runner up in Project competition	RMDSSOE, Warje
	Chaitrali Palande	Runner up leadership competition "LBS-Talentika"	Lotus Business School

Ashutosh Patil	First Prize Paper Presentation	Modern COE, Pune
Ashutosh Patil	2nd Prize Paper Presentation	SVCP, Pune
Geetashri Pawar	Runner up Group Dance	St. Meera's COE, Pune

24 List of eminent academicians and scientists/ visitors to the department:

Academic Year	Date	Name	Designation	Purpose of Visit
2017-2018	24/7/2017	Mr. Kanhaiyya Gorane	Vice President Operations USA at Alfa Laval Inc. Pune	Guidance for student on topic " Career opportunities in industry after engineering"
	1/08/2017	Mr. Hemant Dusane	Manager – Information Security Range Frameworks India Pvt. Ltd. Pune	Guidance for students on the topic "Career opportunity in Electronic and communication field"
2016-2017	05/08/2016	Mr. Jayant Wagh	Team Leader, Avaya India Pvt Ltd.Pune.	Guidance for student on topic " Career Opportunities in telecommunication sector"
	27/01/2017	Mr. Baipalli Vallab Rao	CEO, PHYTEC Embedded Pvt. Ltd, Bengaluru	As a Resource Person for state level Workshop
	10/03/2017	Dr.Viredrakumar Verma	Faculty member, Armament R&D Establishment, DRDO Pune	Motivation for PhD in DRDO
	20/03/2017	Mr. Mangesh Bhalerao	CEO and Co-founder, GetSetSmart, Pune	Discussion on Exponential Technologies in Electronics context
2015-2016	26/08/2015	Dr. Gowdara Pandu	Founder Director & Chief Talent Mentor	Discussion on Internet of Things
	29/01/2016	Dr. Vishwas Udpikar	MD, Wavelet Group	UG and PG Project Discussion
	30/01/2016	Dr. Aditya Abhyankar	Dean, DOT, SPPU Pune	Guidance on Research Methodologies
	10/02/2016	Mr. Sumit Jagdale	Research Scholar, Taiwan University	Introduction and Career Opportunities in VLSI and Robotics

	12/02/2016	Dr. Manesh Kokare	Associate Professor, SGGS IE&T, Nanded	Research Discussion
2014-2015	02/08/2014	Dr. S. V. Bonde	Professor at SGGS IE&T, Nanded	Discussion on Wavelet Transform
	24/12/2014	Mr. Priyabrata Sikdar	Vice President, The GATE Academy, Bangalore	Career guidance (GATE)
	20/03/2015	Dr. U. V. Kulkarni	Professor at SGGS IE&T, Nanded	Guidance on Research Methodologies
2013-2014	05/08/2013	Mr. Sameer Deolalikar	Business consultant, Erricson, Sweden	Introduction and Career Opportunities in Embedded System
	19/03/2014	Mr. Atul Pandharpatte	Design Engineer, Seagate Technology HDD (India) Private Limited	Discussion on Chip design in VLSI field

25. Seminars/ Conferences/Workshops organized and the source of Funding

Academic Year	Category	Title	Date	Funding Agency
2017-2018	Workshop	Faculty orientation Workshop TE E&TC Revised syllabus 2015 Course	23/06/2017 & 24/06/2017	S.P.P.University
		Software Testing and Quality Assurance	19/7/2017 to 21/07/2017	-
		Group Discussion and Personal Interview	7/09/2017 to 08/09/2017	-
		Industrial Automation (Relays, PLC & HMI)	18/9/2017 to 19/9/2017	-
	Seminars	Smart City Development	7/7/2017	STES
		Career opportunities in industry after engineering	24/7/2017	STES
		Career opportunity in Electronic and communication field	1/08/2017	STES
2016-2017	Workshops	Holistic View Of Engineering Pedagogy	8/10/2016	STES
		Research Directions in WSN and IoT	27/01/2017 28/01/2017	S.P.P.University

		Advanced Applications of Embedded System	9/02/2017 10/02/2017	STES
	Seminar	Architecture of Microchip Processors	12/07/2016	STES
		Awareness of Accreditation Process	30/9/2016	STES
		Audit Course Seminar On Traffic Safety	5/10/2016	STES
2015-2016	Workshops	Robot design using Arduino	07/09/2015	STES
		Network Simulator NS3	31/10/2015	STES
		Robo-Burst	14/01/2016	STES
		Mathematical modeling in signal processing	29/01/2016 30/01/2016	S.P.P.University
		PCB Designing	1/03/2016 2/03/2016	STES
	Seminars	Introduction to Arduino	07/07/2015	STES
		Internet Of Things	26/08/2015	STES
		Electromagnetic and transmission lines	04/09/2015	STES
		PC- Inside out	14/01/2016	STES
		VLSI and Robotics	10/02/2016	STES
2014-2015	Workshops	SCADA and PLC	24/07/2014 25/07/2014	STES
		PCB Designing	7/03/2015	STES
	Seminars	Industrial Applications for E&TC Engineering	01/08/2014	STES
		Wavelet Transform	02/08/2014	STES
		Application of Electronics in Defense	8/08/2014	STES
		Introduction to Android	19/01/2015	STES
2013-2014	Workshops	National Network Security Championship	10/08/2013 11/08/2013	STES
		LATEX	11/10/2013 12/10/2013	STES
		Mobile Repairing	4/02/2014	STES

		ARM –System on Chip	4/02/2014 5/02/2014	STES
		PCB Designing	7/03/2014 8/03/2014	STES
	Seminars	Introduction to Embedded System and Career Option available in Embedded system	15/07/2013	STES
		Training in Telecom Industry	22/07/2013	STES
		Embedded Systems	05/08/2013	STES
2012-2013	Workshop	Robotics	08/02/2013 09/02/2013	STES

26. Student Profile Program/Course Wise:

Academic Year	Applications received	Selected (Total Admissions)	Enrolled		Pass Percentage
			M	F	
2017-2018	Admission process in the state is only through CAP and governed by Directorate of Technical Education (DTE), Government of Maharashtra. The Institute follows the rules, regulation and guidelines set by Savitribai Phule Pune University, Maharashtra State Government and AICTE.	61	38	23	NA
2016-2017		35	21	14	89.55%
2015-2016		40	21	19	96.52%
2014-2015		41	25	16	95.83%
2013-2014		55	31	24	NA
2012-2013		63	42	21	NA

*M=Male F=Female

27. Diversity of Students

Name of the Course and Year	% of students from the same state	% of students from other States
2017-2018	93.00	7.00
2016-2017	77.14	22.85
2015-2016	67.50	32.50
2014-2015	86.66	13.34
2013-2014	93.00	7.00
2012-2013	93.75	6.25

28. How many students have cleared national and state competitive Examinations such as NET, SLET, GATE, Civil services, Defense Services, etc?

Academic Year	Number of Students participated in National & State Competitive Examinations		
	GATE	GRE	TOEFL
2016-2017	02	01	01
2015-2016	02	01	01
2014-2015	00	03	02
2013-2014	NA	NA	NA

29. Student Progression

Student progression	Against % enrolled		
Year	2016-17	2015-16	2014-15
UG to PG	3.33	2.29	4.16
Employed	13.43	20.68	25.00
Off campus Selection	3.84	5.74	31.25

30. Details of Infrastructural facilities

a) Library

Department	No. of Titles	No. of Volume	Project Reports		Conference Proceedings
			B.E.	M.E.	
E&TC	476	1754	80	71	04

b) Internet facilities for Staff & Students –**YES**; 70 **Mbps leased line internet and WIFI facility is available**

c) Classrooms with ICT facility- **YES, Classrooms-04**

d) Laboratories –**YES, Labs -11**

Sr.No.	Laboratory Name	Major Equipments/Softwares	Cost (Rs)
1	Basic Electronics Lab	CRO-6	2,67,391/-
2	Computer and VLSI Lab	Computers-24, Xilinx ISE-25 user, Microwind-10 user, MATLAB-13 user	17,63,366/-

3	Project Lab	PCB making set up	2,05,387/-
4	Computer and Embedded System Lab	Computers-24, Triton IDE-10 user,	15,57,615/-
5	Communication Engineering Lab	Spectrum Analyzer, MSO, Satellite communication trainer kit	22,10,225/-
6	TV & Audio Engineering Lab		
7	Network And Power Lab	DSO, Antenna trainer kit	10,38,279/-
8	Microwave Lab		
9	Digital Electronics Lab	Network Analyzer, OTDR,	21,19,577/-
10	Optical Fiber Communication Lab		
11	Electronic Devices And Circuits Lab	DSO, Multisim Software	7,31,684/-

31. Number of students receiving financial assistance from College, university, government or other agencies

Year	Category	No. of Students
2017-2018	SC	3
	OBC	20
	SBC	3
	VJNT	2
	ST	0
	EBC	42
2016-2017	SC	00
	OBC	06
	SBC	00
	VJNT	00
	ST	00
	EBC	29
2015-2016	SC	00
	OBC	07
	SBC	00
	VJNT	00
	ST	00
	EBC	33
2014-2015	SC	04
	OBC	06

	SBC	00	
	VJNT	02	
	ST	00	
	EBC	29	
2013-2014	SC	02	
	OBC	08	
	SBC	00	
	VJNT	01	
	ST	00	
	EBC	44	

32 Details on student enrichment programmes (special lectures / workshops / seminars) with external experts

Sr. No.	Academic Year	Programs Name	Name of experts	Date	No. of Students
Project Competetion					
1	2017-2018	State Level Project Competition for BE students in association with IETE	Mr. G.K. Dwara Mr. Khedkar Mr. Kishor Shende Dr. Angal Dr. V.V. Shyete Dr. M. B. Mali Mrs. S. A. Bhosale Mr. R. U. Shekokar Mr. A.R. More	27/4/ 2017	120
Workshops					
1	2017-2018	Software Testing and Quality Assurance (STP-V VAP)	Mrs.Sumedha Sahasrabudhe, Founder -Emaestro Academy, Pune	19/7/2017 to 21/07/2017	53
2		Group Discussion and Personal Interview (STP-V)	Mr. Sudarshan Mahajan, Trainer, Gifigito, Pune	7/9/2017 to 8/9/2017	49
3		Industrial Automation (Relays, PLC & HMI)	Mr. Nitin Lokhande, Director, Educate To Automate Pvt. Ltd. Pune	18/9/2017 19/9/2017	60
Seminars					
1	2017-2018	Smart city development	Mr.Tanul Mohod,CEO Opulent Infotech Pvt. Ltd. Pune	7/7/2017	65
2		Career opportunities in Industry after	Mr. Kanhaiyya Gorane, Vice President Operations USA at	24/7/2017	128

		Engineering	Alfa Laval Inc Pune		
3		Career opportunity in Electronic and communication field	Mr. Hemant Dusane Manager – Information Security Range Frameworks India Pvt. Ltd. Pune	1/08/2017	72
Guest Lectures					
1		Career Opportunity in Industrial Automation	Mr. Nitin Lokhande, Director, Educate To Automate Pvt. Ltd. Pune	20/06/ 2017	54
2	2017-2018	Applications in Embedded System	Manish Patil, Founder Director, Samruddhi TBI Foundation, Pune	4/07/2017	83
3		Industrial Automation using PLC	Mr.Yogesh Raibole Educate To Automate Pvt. Ltd. Pune	12/9/2017	51
Workshops/Seminars					
1		Seminar on Microchip Architecture	Mr. Prashant Shirpurkar, Proprietor, Logic Power, Pune	12/07/2016	120
2	2016-2017	Audit Course Seminar On Traffic Safety	Mr. Sartape, A.P.I., Warje Police Station, Pune	5/10/2016	80
3		Workshop on Applications of Embedded System	Prof. Rajshree Mahajan, CEO, Dolphin lab, Pune	9/02/2017 10/02/2017	44
4		Seminar on introduction to Arduino	Mr. Anupran Trivedi C.E.O., Campus Component, Swargate, Pune	07/07/2015	80
5		Seminar on Internet of things	Dr. Gowdara Pandu, Founder Director & Chief Talent Mentor	26/08/2015	55
6		Seminar on EMTL	Dr. M. B. Mali, H.O.D., E&TC, SCOE, Vadgaon, Pune	04/09/2015	70
7	2015-2016	Workshop on Arduino	Mr. Anupran Trivedi C.E.O., Campus Component, Swargate, Pune	07/09/2015	37
8		National Level One Day Workshop on NS-3	Mr. R. Thirukkumaran, SAT Infosys, Coimbatore, Tamil Nadu	31/10/2015	57
9		Seminar on PC- Inside out	Sarang Degaonkar Dhanashree Computers, Solapur	14/01/2016	48
10		Workshop on Robo-Burst	Prof. Chittranjan Mahajan, SAE, Kondhwa.	14/01/2016	59
11		Mathematical modeling in signal processing	Mr. Parmeshwar Narvane, SME SEED Infotech Ltd, Pune	29/01/2016 30/01/2016	31

12		Seminar on VLSI and Robotics	Mr. Sumit Jagdale, Researcher Scholar, Taiwan University, Taiwan	10/02/2016	56
13		Workshop on PCB Designing	Mr. Shreyash Deshpande, Mr. Danish Khan, Saptarshi Academy, Pune	01/03/2016 02/03/2016	54
14		Workshop on SCADA and PLC	Mr. Ajit Bhide, Mrs. Nital Kokate, Mr. Kishor Patil, Yantra Harvest Automation School, Pune	24/07/2014 25/07/2014	37
15		Seminar on Industrial Applications for E&TC Engineering	Mr. Vivek Pawar Founder and Executive Chairman, Sankalp Semiconductor Pvt Ltd, Hubali	01/08/2014	89
16	2014-2015	Seminar on Wavelet Transform	Dr. S. V. Bonde, Professor at SGGS IE&T, Nanded	02/08/2014	40
17		Seminar on Application of Electronics in Defense	Dr. Virendra Kumar Verma Joint Director DRDO, Pune	08/08/2014	30
18		Seminar on Android	Mr. Akshay Kelkar and Mr. Aditya Shinde, Felix-it systems, Kothrud, Pune	19/01/2015	38
19		Workshop on PCB Designing	Mr. Subhash Akiwate, IPC-USA Certified PCB Designer, Pune	07/03/2015	42
20		Workshop on NNSC	Association for Computer Machinery, IIT Delhi and Network Bulls, Gurgaon	10/08/2013 11/08/2013	41
21		Workshop on LATEX	Mr. Anirudha Rumale, S.V.P. Mandal's College of Engineering, Pune	11/10/2013 12/10/2013	61
22		Workshop on Mobile Repairing	Mr. Arun More, Director, Success Institute, Pune	04/02/2014	72
23	2013-2014	Workshop on ARM – SOC	Mr. Sanjay Jogalekar, Director, Kannad Electromation Pvt. Ltd., Sangli	04/02/2014 05/02/2014	68
24		Workshop on PCB Designing	Mr. Subhas Akiwate, IPC-USA Certified PCB Designer	7/03/2014 8/03/2014	42
25		Seminar on Introduction and Career Opportunities in Embedded System	Mr. Sameer Deolalikar, Buisness consultant, Erricson, Sweden	15/07/2013	46

26		Seminar on Training in Telecom Industry	Mr. Paresh Kulkarni, Mobicon Ind. Pvt. Ltd., Mumbai	22/07/2013	33
27		Seminar on Career Opportunities in Embedded System	Mr.Vikas Ghanekar, Mr.Akshay Joshi	15/7/2013	54
Guest Lectures					
1	2016-2017	Career Opportunities in Automation	Mr. Sudarshan Mantri, Manager of Operations, Training and Projects, Educate To Automate Pvt. Ltd., Pune	23/06/2016	40
2		Artificial Intelligence and Neural Networks	Mr. Vinayak Rajput with Mr. Sudish Kumar, Vice President of Sales Acia-Pacific Perpetuate Technology, Pune	27/06/2016	60
3		Importance of GATE	Mr. Snehasis Dey, Manager of Academic Relations, The GATE Academy, Pune	04/07/2016	55
4		Career opportunities with higher education in foreign countries	Mr. Dayanand M., Head of The CHOPRAS Academy, Pune	08/07/2016	55
5		Importance of GRE	Logiquest, Pune	09/01/2017	82
6		Importance of GATE	Mr. Deepanshu Bansal, Assistant Vice President and Academic Relations, The GATE Academy.	12/01/2017	32
7		Future scope after GRE/GMAT exam	Sunil P. Hadimani, Asst. Manager- Business Development, Jamboree Education Pvt Ltd	12/01/2017	32
8		Robotic Vehicles	Mr. Tanmoy Sinha, Cloud Engineering, Pune	25/01/2017	72
9		Exponential Technologies in Electronics context	Mr. Mangesh Bhalerao, CEO and Co-founder, GetSetSmart, Pune	20/03/2017	100
10	2015-2016	Guest Lecture on Importance of GATE	Mr. Arvind Giri (Sectional Head of Gate Academy, Pune)	17/07/2015	62
11		Personality Development	Mr. Rajesh Chavan, Founder, Jivan Sanjivani Academy, Sangli, Maharashtra	23/01/2016	49
12		Entrepreneurship Development	Mr. Uday Betawadkar, Chief Consultant of Master Mind solution	27/01/2016	45

13	2014-2015	Automation in Industry	Mr. Ajit Bhide, GM, and Mr. Kishore Patil, Assistant Manager, Yantra Harvest Automation School, Sangamvadi, Pune	07/10/2014	55
14		Career in Foreign Universities	Mr. Arpan Suryavanshi and Mr. Gaurav Ranjan, Marketing Excecutives at 'The Chopras', Pune	16/03/2015	65
15	2013-2014	Industry Automation	Mr. Rohit Dhane, Sr. Engineer, Honeywell Pvt. Ltd., Pune	06/03/2014	75
16		Chip design in VLSI field	Mr. Atul Pandharpatte, Design Engineer, Seagate Technology HDD (India) Private Limited, Pune	19/03/2014	81

33. Teaching methods adopted to improve student learning

- Department practices blend of Activity based and Project based learning in addition to traditional teaching learning methods.
- To improve classroom learning, department has applied following practices
  1. Staff members are allotted subject as per their choice and specialization.
  2. As far as a possible faculty who has taught that particular course is allotted to teach that course.
  3. Faculty are asked to prepare semester teaching plan and course file before the start of the semester.
- To simplify Teaching Learning process teaching aids are provided for conducting lectures.
- Models, videos, and animations are used by faculty members to elaborate concepts as per the complexity of the topic.
- Lab experiments and homework in the form of assignments is given to students.
- Internal tests and mock practical and oral examinations are conducted throughout the semester to judge student's knowledge.
- Students with low performance and low attendance go through remedial classes and retests.

Active Learning

- Students are motivated to work on ongoing research projects.
- Project exhibition/competitions and various technical festivals provide an opportunity for active learning.
- Expert talks, Industry expert Seminars and Industrial visits are arranged to bridge the knowledge gap of the students.

Assessment Method

- Various tests (Unit tests and Prelim, Online, etc.) and attendance of students for theory and experiments are used for assessment.
- Mock tests are conducted to evaluate the students understanding.
- Industry experts are involved during the revision of the course at university level.
- Feedback from alumni and final year students are taken into account during the revision of the PEO's at the institute.
- Indirect assessment is done through campus interviews and performance of students.

34 Participation in Institutional Social Responsibility (ISR) and Extension activities

Summary of all social events conducted in last 4 years

Sr. No.	Academic Year	Name of event	Dates
1	2017-2018	Visit at Matoshri (Old Age Home)	30th Sept 2017
2		Sweet distribution for Homeless Children	13th Oct 2017
3	2016-2017	Yoga Day	21st June 2016
4		Tree plantation	1st July 2016
5		Awareness of Organ Donation by SKN Hospital Doctors	31st Aug 2016
6		Sahajyoga sessions for students & staff	Sem-I (2hrs/week)
7		Visit to Kamayani (Mentally challenged institute)	15th Sept 2016
8		Sweet distribution to orphanage institute	24th Jan 2017
9		Blanket distribution at Swargate bus stand to needy people	25th Jan 2017
10		Lunch arrangement at Matoshri- Old age home	26th Jan 2017
11		Poster competition on "Save the girl child"	9th Feb 2017
12		Women's Day Celebration Program	8th Mar 2017
13		Hemoglobin checkup for girls & lady faculty members	8th Mar 2017
14	2015-2016	Visit to Kamayani(Mentally challenged institute)	10th Sept 2015
15		Sweet distribution to orphanage institute	24th Jan 2016
16		Blanket distribution at Swargate bus stand to needy people	25th Jan 2016
17		Lunch arrangement at Matoshri- Old age home	26th Jan 2016
18		Plastic kacharaMukta Pune ShaharAbhiyan	13th Feb 2016
19		Seminar on Global Warming & Ozone Retention by Rajendra Shende	20th Feb 2016
20	2014-2015	Blood donation camp	3rd July 2014

21		Visit to Kamayani(Mentally challenged institute)	12th Sept 2014
22		Sweet distribution to orphanage institute	24th Jan 2015
23		Blanket distribution at Swargate bus stand to needy people	25th Jan 2015
24		Lunch arrangement at Matoshri Old age home	26th Jan 2015
25		Women's Day celebration	8th Mar 2015
26		Blood donation	24th Mar 2015
27	2013-2014	Sweet distribution to orphan age institute	24th Jan 2014
28		Blanket distribution at Swargate bus stand to needy people	25th Jan 2014
29		Lunch arrangement at Matoshri Old age home	26th Jan 2014
30		Blood Donation	16th Feb 2014

Summary of cultural events conducted in last 4 years

Sr. No.	Academic Year	Name of event	Dates
1	2017-2018	Induction program for second year students	3rd July2017
2		e-WORTS Team Formation	3rd July 2017
3		Guru Pornima celebration	11th July 2017
4		F.E Induction	1st Aug 2017
5	2016-2017	Gurupournima celebration	20th July 2016
6		Drawing competition on Azadi-70	16th Aug 2016
7		Dahihandi celebration by RMDSSOE students	25th Aug 2016
8		Teacher's Day	6th Sept 2016
9		Sinhgad Karandak 2017 (Preliminary Round)	9th & 10th Jan 2017
10		Cultural days celebration	6th to 8th Feb 2017
11		Sinhgad Karandak (final round)	9th to 13th Feb 2017
12		Shivjayanti celebration	17th Feb 2017
13		Appreciation Program	31st March 2017
14		BE Farewell party	7th Apr 2017
15	2015-2016	Gurupournima celebration	31st July 2015
16		Teacher's Day	5th Sept 2015
17		Mr. & Ms. Sinhgad (Preliminary round-Sinhgad Karandak 2016)	12th Sept 2015
18		Sinhgad Karandak	10th to 13th Jan 2016
19		Pune Jatan Youth Rally	13th Feb 2016
20		Historical weapons exhibition	20th Feb 2016
21		Cultural Days celebration	10th Mar 2016 to 12th Mar 2016
22		Appreciation Program	19th Mar 2016
23		BE Farewell party	2nd Apr 2016
24		Convocation ceremony	5th Apr 2016

25		Teacher's Day	5th Sept 2014
26	2014-2015	Sinhgad Karandak	11th Jan 2015 to 14th Jan 2015
27		B.E. Farewell party	19th Mar 2015
28		Cultural Days celebration	20th Feb & 21st Feb 2015
29	2013-2014	Teacher's Day	5th Sept 2013
30		Sinhgad Karandak	29th Jan 2014 to 2nd Feb 2014
31		Fun fair	5th Feb 2014

35. SWOC analysis of the department and Future plans

Strengths:

- Major statistical assessment platform to assess employability in the form of Aspiring Minds Computer Adaptive Test (AMCAT) is undertaken which is well accepted by top MNC.

- Co-Curricular Activities (Sinhgad Karandak and Techtonic fests) are organized and participated by the students from all over the state.

- Teacher Guardian practice adopted for students for close monitoring of student performance and regular interaction with parents.

- Additional skills areas like Soft skill and add on technical skill are covered for student development through exclusively designed Student Training Program (STP)) which includes Group discussion (GD), Personal Interview (PI) sessions, Test Series of Quantitative Aptitude (QA) – Logical Reasoning (LR) and Value Addition Program (VAP) throughout the curriculum.

- Eminent Guest speakers from academia, industry, and service sector are invited for Interaction and exposure to best practices for the students and faculty.

- Students are getting exposure to work on live projects through Roboclub activity and get opportunity to work on industry projects through MOUs between department and industries.

- Multi-Disciplinary activities (TTT and TAP) and knowledge sharing are carried out across the institutes under STES.

Weaknesses

- Lack of highly qualified (PhD) Faculty.

- Research, Publications, and consultancy.

Opportunities

- Scope for strengthening the industry institution interaction for better placements of students.

- To develop R&D activities by interacting with premier industries and reputed higher learning institutions.

- Enter into collaborative projects with industries and other institutions for better exposure.

- Networking with other institutions for sharing/acquiring to know advanced technologies.

- Interdisciplinary approach.

Challenges

- To improve placements.

- To cope up with international/global challenges in terms of academic quality.

Future Plan:
Short Term:

- Enhancing the training activity for placements.

- To start Business club of students where students will get the exposure to be an entrepreneur.

- To initiate relevant value addition programs and certifications for improving Employability.

- Encouraging staff to pursuing Ph.D.

Long Term:

- To practice Project Based Learning (PBL) approach for UG and PG.

- Programs by creating collaboration reputed Institutions.

- To create opportunities for students to expose to industry environment through value addition programs, projects, etc for practical training.

- Establishment of Centre of Excellence.

Department of Master of Business Administration (MBA)

Evaluative Report of the Department

1. Name of the Department: Master of Business Administration (MBA)

2. Year of Establishment: 2011

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)

Course offered	Name of the course	Specialization	Year of Establishment	Intake
P.G.	M.B.A.	Business Administration	2011-12	120
P.G.	M.B.A.	Business Administration	2012-13	+120
P.G.	M.B.A.	Business Administration	2016-17	-60

4. Name of Interdisciplinary courses and the departments / Units involved:

NIL

5. Annual/ semester/choice based credit system (Programme wise)

Sr. No.	Course Offered	Programme	Duration	System	Evaluation
1	P.G.	MBA	2 years	4 Semesters	Marks& Credits

6. Participation of the department in the courses offered by other departments: NA

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

Sr. No.	Name of the course	Participating institution /industry
1	Six Sigma	AIQM
2	Harvard Business School – Case Studies	Harvard Business School Publishing, USA

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. A number of teaching posts.

Programme / Teaching Post	Post graduate Programme	
	Sanctioned	Filled
Professors	02	01
Associate Professors	04	01
Asst. Professors	13	12
Total	**19**	**14**

10. Faculty profile with name, qualification, designation, specialization (D.Sc. /D.Litt. /Ph.D. / M. Phil., etc.)

Sr. No	Name	Designation	Qualification	Specialization	No. of years of Exp.
1	Dr.J. John Peter	Dean – MBA	MA,MBA, LLB,PhD	Human Resource	32
2	Dr. Stella Samuel	Asst. Prof.	M. Com, Ph.D.	Human Resource	25
3	Prof. Rajnikant Singh	Asst. Prof.	MBA	Marketing	17
4	Prof. PravinBodade	Asst. Prof.	MBA	Marketing	15
5	Prof. Anima Rathod	Asst. Prof.	MBA	Human Resource	13
6	Prof. Ganesh Datere	Asst. Prof.	MBA	Marketing	10
7	Prof. SourabhBhise	Asst. Prof.	MBA	Marketing	7
8	Prof. Moni Ray	Asst. Prof.	MBA	Finance	8
9	Prof. PoorvaPachpore	Asst. Prof.	MBA	Finance	8
10	Prof. PrashantPatil	Asst. Prof.	MBA, NET & SET Qualified	Finance	7
11	Prof. Amar Narkhede	Asst. Prof.	MBA	Marketing	7
12	Prof. ArchanaChirmade	Asst. Prof.	MBA	Operations	4
13	Prof. DnyaneshwarGhuge	Asst. Prof.	MBA	Operations	3
14	Prof. PriyankaBachhav	Asst. Prof.	MBA, NET Qualified	Human Resource	3

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)

Year	Students' Intake	Teacher(s)	STR
2016-17	180	14	12.85:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Type of Staff	Sanctioned	Filled
Administrative Staff	2	2

15. Qualifications of teaching faculty with DSC/ D.Litt. /Ph.D. / MPhil / PG.

Sr. No	Qualification	No of Teaching faculty
1	Ph.D.	02
2	Ph.D. pursuing	07
3	P.G.	05
Total		**14**

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Sr. No	Name of Faculty	Project Title	Funding Agency
1	Prof. PrashantPatil, Prof. Amar Narkhede	Role of Private Equity Firms in Promoting Entrepreneurship through MSME Funding in Pune Region	SPPU, Pune
2	Prof. Anima Rathod	A critical analysis of employee engagement initiatives in select organize retail sector in Pune city.	SPPU, Pune

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: National and International Journals

a) Publication per faculty

Sr. No.	Name of the Author	Paper Title	Journal Name	ISSN No	Paper Level	Academic Year
1	Prof. Prashant T Patil	Study of Venture Capital Financing and MSME Sector Attractiveness in India	Dept. of Management Studies, NMU, Jalgaon	978-93-86256-44-7	National Conference	2016-17
2	Prof. R. K. Singh	Sharing Economy – A new way of consumption in general and in India	SIBAR, Kondwa	2347-4173	National Conference	2016-17
3	Prof. PriyankaBachhav	A study of Environmental Resource Management and its Impact on Development of India	National Conference on 'Environment and Development		National Conference	2016-17
4	Prof ArchanaChirmade	Impact of Drone (UAV) Technology on E-commerce Logistics & Transportation	SKNSSBM, Ambegaon	2454-9266	National Conference	2016-17
5	Prof. SourabhBhise	Sharing Economy – A new way of consumption in general and in India	SIBAR, Kondwa	2347-4173	National Conference	2016-17
6	Prof. PravinBodade	Critical Analysis of Brand Equity And Entrepreneurs Perception towards Digital Marketing Tool	GE-IJOMR, Vol IV, Issue IV, April 2016	2278-2540	International Journal	2015-16
7	Prof. PravinBodade	comparative study of CRM initative in Retail, Telecommunication, Banking & Life Insurance Indusrty: A Customer Perspective	IJRSI, Vol III, Issue IV, April 2016	2321-2705	International Journal	2015-16
8	Prof. PriyankaBachhav	An Analytical Study of Time Management and its impact on the performance of RMDSSOMS students	IRJMC, Vol 3, Issue 3	2348-9766	International Journal	2015-16
9	Prof ArchanaChirmade	Barriers for Implementation of Green Supply Chain Management in manufacturing industries	IBMR- Wakad's Journal of Management Research	2349-8722	National Conference	2015-16
10	Prof Moni Ray	Capital Structure & factors affecting capital structure	IBMR- Wakad's Journal of Management Research	2349-8722	National Conference	2015-16
11	Prof. Anima Rathod	Employee Delight- an approach beyond satisfaction	IBMR- Wakad's Journal of Management Research	2349-8722	National Conference	2015-16
12	Prof. PriyankaBachhav	A Study of Importance of Human Capital in Success of Make in India	IBMR- Wakad's Journal of Management Research	2349-8722	National Journal	2015-16
13	Prof. PoorvaPachpore	Socially Responsible Investment- A paradigm for sustainable Development	Contemporary issues in business management	2349-8722	National Journal	2015-16
14	Prof. Anima Rathod	A comparative study of Grade, Designation and salary of different IT companies working on Common Domain	Scholarly Research Journal for Interdisciplinary Studies	2319-4766	International Conference	2015-16

15	Prof. R. K. Singh	Study of Individual Health Insurance Cover over Group Insurance Cover in India	Conference Proceedings	978-93-5158-582-4	National Conference	2015-16
16	Prof. Amar P narkhede	To Study the consumer behavior with special reference to youngsters towards Shopping Mall in the Pune city	Confluence 2016	978-810929101-2-3	National Conference	2015-16
17	Prof. Amar P narkhede	Online Marketing- Gaining Importance in Indian Market	Confluence 2016	978-810929101-2-3	National Conference	2015-16
18	Prof. Prashant T Patil	India - The Growing Startup Ecosystem	Confluence 2016	978-810929101-2-3	National Conference	2015-16
19	Prof. Prashant T Patil	ONLINE MARKETING- Gaining Importance in Indian Market	Confluence 2016	978-810929101-2-3	National Conference	2015-16
20	Pro. Ganesh Datere	A Study on Direct Selling Business (Amway India Ltd.) A Case Case Study of Pune District of Maharashtra.	Conference Proceedings	978-93-85162-61-9	National Conference	2015-16
21	Prof. Amar P narkhede	Shopping Mall- A Key driver for growth of organized Retailing in India	Conference Proceedings	978-93-85162-61-9	National Conference	2015-16
22	Prof. Prashant T Patil	Recent growth of Venture Capital in India - Attractiveness of Indian Economy	Conference Proceedings	978-93-85162-61-9	National Conference	2015-16
23	Dr. Stella Samuel	An imapct of talent management programme on the employee performance and retention in corporate sector	Conference Proceedings	978-93-85162-61-9	National Conference	2015-16
24	Dr. Stella Samuel	Handling Employees With Problems At Work: When Employee's Personal Problems Affect Performance and Productivity, what should be the culture?	Conference Proceedings	978-93-85162-61-9	National Conference	2015-16
25	Prof. R. K. Singh	A study of the emerging trends in the Indian Life Insurance Industry	Conference Proceedings	978-93-85162-61-9	National Conference	2015-16
26	Prof. SourabhBhise	How startups are supporting the spirit of entrepreneurship & sustainable development	Conference Proceedings	978-93-85162-61-9	National Conference	2015-16
27	Prof. DnyaneshwarGhuge	How startups are supporting the spirit of entrepreneurship & sustainable development	Conference Proceedings	978-93-85162-61-9	National Conference	2015-16
28	Prof. R. K. Singh	Online insurance – a new business channel for insurance companies – opportunities and challenges	Conference Proceedings	998-93-5254-058-7	National Conference	2015-16
29	Prof. Prashant T Patil	Critical Analysis of role played by financial institutions in development of Indian MSME's	International Journal of research and scientific innovation	2321-2705	International Journal	2014-15
30	Dr. J. John Peter	Employee Engagement Through Empowerment	Knowledge Management Practices and Challenges	2348-1641	International Journal	2014-15

31	Pro. Ganesh Datere	Direct Selling : Relationship Building Business- Myth or Realty?	The International Centre , Goa.	2277-9302	International Journal	2014-15
32	Prof ArchanaChirmade	Efficient Supply Chain Management with the help of Internet	IJAMTES, Vol. IV, Issue 3 (1), December 2014	2249-7455	International Conference	2014-15
33	Prof Moni Ray	Qualitative Research & its recent trends	IJMR, Vol. III, Issue 9 (I), December 2014.	2277-9302	International Conference	2014-15
34	Prof. Amar P narkhede	Sustainable Business Model- A need for SME's	International Journal of Business Management and Social science	2249-7463	International Journal	2014-15
35	Prof. Prashant T Patil	Sustainable Business Model- A need for SME's	International Journal of Business Management and Social science	2249-7463	International Journal	2014-15
36	Prof. PriyankaBachhav	A Need for Work-Life Balance of Men in 21st Century	IRJCBSS, Vol III, Issue 9, Dec 2014	2277-9310	International Conference	2014-15
37	Prof. PriyankaBachhav	Green HRM- An Environmental Awareness	IRJHEI, Vol. III, Issue 9, Dec 2014.	2277-9329	International Journal	2014-15
38	Prof. R. K. Singh	Risk Management - A Study of market potential and Penetration of Micro insurance in India	International Journal of Business Management & Social Sciences	2249-7463	International Journal	2014-15
39	Prof. PoorvaPachpore	Remedies &cuases of International Financial crisis & its impact on Indian economy	IJMR, Vol. III, Issue 9 (I), December 2014.	2277-9302	International Conference	2014-15
40	Dr. J. John Peter	Measuring HR effectiveness through HR metrics	International journal of Advances in Management Technology& Engineering Sciences Dec 2014	2249-7455	International Journal	2014-15
41	Dr. Stella Samuel	A research on employee engagement in Masse Builders to eliminate boredom in repetitive work.	IJMR, Vol. III, Issue 9 (I), December 2014.	2277-9329	International Conference	2014-15
42	Dr. Stella Samuel	A comparative study of factors causing stress amongst students and teachers in RMD Sinhgad Technical Institutes Campus	IRJHEI, Vol. III, Issue 9, Dec 2014.	2277-9302	International Conference	2014-15
43	Prof. Anima Rathod	Culturing Employee Engagement	International Research Journal of Commerce, Business and Social Science	2277-9310	International Conference	2014-15
44	Prof SourabhBhise	Social Media Marketing- A powerful and adopatable approach for achieving and sustaining positive consumer behavior	International Journal of Software and Web Sciences	2279-0071	International Journal	2014-15
45	Prof. DnyaneshwarGhuge	Social Media Marketing- A powerful and adopatable approach for achieving and sustaining positive consumer behavior	International Journal of Software and Web Sciences	2279-0071	International Journal	2014-15

46	Prof ArchanaChirmade	Role of college teacher in social transformation	Role of Teachers and Educational Institutions in Social Transformation	978-81-923835-4-5	National Conference	2013-14
47	Prof. PriyankaBachhav	Role of Role of Teachers from Social Perspective	Role of Teachers and Educational Institutions in Social Transformation	978-81-923835-4-5	National Conference	2013-14
48	Prof. Prashant T Patil	CRM & its significance in Banking & Insurance Sector in India	International Journal of Concept Management	2277-6893	International Journal	2013-14
49	Dr. Stella Samuel	Current Trends in HR	MIT, Khoj Journal	0976-8262	National Conference	2013-14
50	Prof. Anima Rathod	Current Trends in HR	KHOJ, Journal of Indian Managemenr Research Practices	0976-8262	National Conference	2013-14
51	Prof. R. K. Singh	Online Insurance: A new business channel for Indian Life Insurance Companies	Conference Proceedings	978-93-5097-574-9	National Conference	2012-13
52	Pro. Ganesh Datere	A Critical Study of Consumer Buying Behavior of Two-wheelers in Pune City,Maharashtra	Conference Proceedings	978-93-5097-389-9	National Conference	2012-13
53	Prof. SourabhBhise	A Critical Study of Consumer Buying Behavior of Two-wheelers in Pune City,Maharashtra	Conference Proceedings	978-93-5097-389-9	National Conference	2012-13

20. Areas of consultancy and income generated: Nil

21. Faculty as members in

a) National committees

Sr. No.	Name of Faculty	Position Held	Organization	Year
1	Dr. J. John Peter	Hon. Secretary	ISTD, Pune	2015-16

b) International Committees – NIL

c) Editorial Boards

Sr. No.	Name of Faculty	Name of Journal	Year
1	Dr. J. John Peter	iJARS Group of Journals	2015-16

22. Student projects

Project Details:

Sr. No.	Description	2016-17	2015-16	2014-15	2013-14	2012-13
(a)	Percentage of students who have done in-house projects including interdepartmental/ programme	NIL	NIL	NIL	NIL	NIL
(b)	Percentage of students placed for projects in organizations outside the institution	100%	100%	100%	100%	100%

23. Awards / Recognitions received by faculty and students

Awards / Recognitions received by faculty and students:

Particulars	2016-17	2015-16	2014-15	2013-14	2012-13
Awards	14	08	01	NIL	NIL

Year 2016-17 – Students

Sr. No.	Name	Batch	Type of Achievement	Achievement
1	Komal Khadtare	2015-17	Curricular	Best Out Going Student.
2	Vishal Kachi	2015-17	Curricular	Runner up of Wall Street Titans
3	Joel Samuel	2015-17	Extra-Curricular	Won Mr. Spectrum title in Spectrum (Inter-collegiate Management Fest) across Maharashtra

2016-17 - Faculty Members

Sr. No.	Name	Batch	Type of Achievement	Achievement
1	Prof. Priyanka Bachhav	Faculty	Extra-Curricular	Honoured with Certificate of Appreciation
2	Prof. Anima Rathod	Faculty	Extra-Curricular	Honoured with Certificate of Appreciation
3	Prof. Ganesh Datere	Faculty	Extra-Curricular	Honoured with Certificate of Appreciation
4	Prof. Archana Chirmade	Faculty	Extra-Curricular	Honoured with Certificate of Appreciation
5	Prof. Poorva Pachpore	Faculty	Extra-Curricular	Honoured with Certificate of Appreciation
6	Prof. Moni Ray	Faculty	Extra-Curricular	Honoured with Certificate of Appreciation
7	Prof. Dnyaneshwar Ghuge	Faculty	Extra-Curricular	Honoured with Certificate of Appreciation

Year 2015-16 – Students

Sr. No.	Name	Batch	Type of Achievement	Achievement
1	GaganpreetKaur	2013-15	Curricular	First Rank in all pass candidates in SPPU MBA Exams held in May 2014-15
2	Parag Shinde	2014-16	Curricular	Selected in Top 10 in Human Resource Management at Inter-collegiate across India in Summer Trainee Awards 2015
3	Joel Samuel	2015-17	Extra-Curricular	Won Mr. Spectrum title in Spectrum (Inter-collegiate Management Fest) across Maharashtra

Faculty Members

Sr. No.	Name	Batch	Type of Achievement	Achievement
1	Prof. Pravin Bodade	Faculty	Curricular	Honoured with Certificate of Appreciation
2	Prof. Prashant Patil	Faculty	Curricular	Honoured with Certificate of Appreciation
3	Prof. Priyanka Bachhav	Faculty	Extra-Curricular	Honoured with Certificate of Appreciation
4	Prof. Priyanka Bachhav	Faculty	Curricular	Got Prize for Best Oral Presentation of Research Paper
5	Prof. Anima Rathod	Faculty	Curricular	Certificate of Appreciation for being selected among the top 10 college Mentors (HR), India region under E4- MBA Intercollegiate Summer trainee Awards 2015

Year 2014-15

Sr. No.	Name	Batch	Type of Achievement	Achievement
1	Prof. Priyanka Bachhav	Faculty	Curricular	Cleared SET (English)

24. List of eminent academicians and scientists / visitors to the department

Year 2016-17

Sr. No.	Name of Speaker	Designation	Company	Topic	Date
1	Sonali Banerjee	HR Manager	TM Semiconductors	Aptitude Tests	11-01-2017
2	Dr.AshishPuranik	Vice Principal	BMCC College, Pune	Swami Vivekanand	12-01-2017
3	Ms.Reena	Program Co-ordinator	Datri Foundation India	Awareness Drive about Blood Stem cells donation	23-01-2017
4	Prof. Ashok Soman	Senior Professor	National Insurance Academy	Demonetisation - Boon or Bane	31-01-2017

Year 2015-16

Sr. No.	Name of Speaker	Designation	Company	Topic	Date
1	CA MukeshKuwad	Director	White Knight Academy	Career Opportunities in Financial Markets	08-08-2015
2	Ms.RuchitaJaju	Director	International Head Recruiters	Employment Quotient	19-08-2015
3	Mr. Nishi Kant	Founder	Leo Edunomics	Digital Marketing	26-08-2015
4	Mr.KavirajGunjal	Principal Consultant	Tech Mahindra	HR Information Systems	02-09-2015
5	Mr.AtikPathan	HR Head	Tech Mahindra	SAP	03-09-2015
6	Mr.MohitKhemka	Director	Trung Retail Ltd.	Amazing Opportunity of Online retail	11-09-2015

Year 2014-15

Sr. No.	Name of Speaker	Designation	Organization	Topic of Lecture	Date
1	Mr.PankajPradeep	General Manager HR	FIAT India Ltd	An MBA in Organisational setup	04-08-2014
2	Mr.RavindraUtgikar	Head Global Business Development	Sterlite Technologies Ltd.	Global Marketing	05-08-2014
3	Mr.GouravGattani	Director	Dreamz Technology	Emarketing	08-09-2014
4	Mr.PrafullMankar	General Manager	Embionics Technologies Pvt Ltd	Challenges in Retail Marketing	20-09-2014
5	Mr HarendraDeshpande	Director	Creative Training Solutions	Make In india	24-09-2014
6	Mr.AnandKhot	HR Manager	IBM Technologies	Industry Institute Connect	08-10-2014

Year 2013-14

Sr. No.	Name of Speaker	Designation & Organization	Topic	Date
1	Mr. Rishi Kapal	VP - Sony Mobile Communications	Employability Skills	25-07-2013
2	Mr.Bhupendra Singh Rathore	Management Consultant	Igniting Sparks	26-07-2013
3	Dr.RajanShrikhande	Management Consultant	4th P of Marketing – Promotion and Advertising	05-08-2013
4	Mr.KishorKenche	Deputy General Manager – HR, Mubea	An Insight into Automobile Industry	08-08-2013
5	Mr.SiddharthPatankar	MS Student at University of Melbourne, Australia	Growth & employment opportunities for management education in Australia	14-08-2013
6	Mr. Anil Dandekar	Diaster Management Expert - Govt. of India	Disaster Management	20-08-2013
7	Mr.Parth Joshi	Senior Manager - Reliance Info Media	Creative thinking for Brand Activation and Brand Solution	24-08-2013
8	Mr.Anirudan Raja Gopal	AGM - Supply Chain Management, Cummins India Ltd.	An overview of various functions within a manufacturing organization	12-09-2013
9	Mr.VishwasVaidya	AGM - Tata Motors Ltd.	Automotive Electronics	17-09-2013
10	Mr. Ram Bende	Founder, Life & Business Coach	Life skills	27-09-2013
11	Mr.SubhashRaje	Six Sigma Coach	Six Sigma, Quality Management & Supply chain management	11-10-2013
12	Mr. Ravi Achaliya	Management Consultant	Can Do - Assertive Communication, Self-motivation and Self introduction	19-10-2013

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Academic Year	Category	Title	Funding Agency
2017-18	Workshop	NIL	NIL
	Seminar	GST & its implications on Indian economy	STES
	Conference	NIL	NIL
2016-17	Workshop	NIL	NIL
	Seminar	Cashless Society	STES
	Conference	NIL	NIL
2015-16	Workshop	NIL	STES
	Seminar	Digital India	STES
	Conference	NIL	NIL
2014-15	Workshop	SPSS Training Workshop	STES
	Seminar	Make-In-India	STES
	Conference	NIL	NIL
2013-14	Workshop	NIL	NIL
	Seminar	HR Conclave	STES
	Conference	NIL	NIL
2012-13	Workshop	NIL	NIL
	Seminar	Current Trends in Management	SPPU, Pune
	Conference	NIL	NIL

26. Student profile programme/course wise

Academic Year	Selected (Total Admissions)	Enrolled		Pass percentage
		M	F	
2016-17	131	83	48	75.22

2015-16	135	85	50	82.70
2014-15	112	81	31	81.81
2013-14	155	108	47	74.76

27. Diversity of Students

Name of the Course		% of students from the same state	% of students from other States
PG	2017-18	92.2	7.8
	2016-17	93.90	6.10
	2015-16	91.79	8.21
	2014-15	86.32	13.67
	2013-14	100	0
	2012-13	89.3	13.7
	2011-12	91.8	8.2

28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil services, Defence services, etc.?- NIL

29. Student progression

Student progression	Against % enrolled					
	2017-18	2016-17	2015-16	2014-15	2013-14	2012-13
Employed Campus selection	7.63	11.11	31.13	23.08	16.82	20.54
Other thancampus recruitment	---	33.32	44.34	54.54	53.74	54.46
Entrepreneurship/Self-employment	---	--	--	--	--	--

30. Details of infrastructure facilities

a) Library :

Sr. No.	Particulars	Numbers
1.	Book Titles	675
2.	Book Volumes	3069

3.	Project Reports	597

b) Internet facilities for Staff & Students

- ➤ Wi-Fi and wired Internet facility are available for Staff & Students
- ➤ All faculty members provided internet connectivity
- ➤ Central Server for Networking

c) Classrooms with ICT facility

- ➤ Classrooms with ICT facility: NIL
- ➤ Classrooms provided with LCD projectors: 04
- ➤ PA Systems and Internet facility in Seminar Hall: 01

d) Laboratories: 02

The labs in the department are well equipped with Dual Core processors, 2GB Ram, 300GB HDD with internet facility

Curriculum Lab Description	Exclusive use/Shared?	Space/ Students	No. of experiments	Quality of instruments	Lab manual
MBA Lab - 1	Shared	30	NA	In Use	Available
MBA Lab – 2	Shared	30	NA	In Use	Available

31. Number of students receiving financial assistance from college, university, Gov

Year	Category	MBA
2017-18	SC	16
	OBC	38
	SBC	06
	VJNT	11
	ST	0
2016-17	SC	14
	OBC	25
	SBC	1
	VJNT	7
	ST	02
2015-2016	SC	13
	OBC	26

	SBC	02
	VJNT	06
	ST	00
2014-15	SC	15
	OBC	18
	SBC	02
	VJNT	07
	ST	00
2013-14	SC	12
	OBC	15
	SBC	03
	VJNT	03
	ST	00
2012-13	SC	13
	OBC	35
	SBC	02
	VJNT	16
	ST	00

ernment or other agencies:

32. Details on student enrichment programmes (special lectures /Workshops / Seminar) with external experts

Sr. No.	Year	No. of Speakers
1	2017-18	06
2	2016-17	12
3	2015-16	11
4	2014-15	10
5	2013-14	11

Year 2017-18

Sr. No.	Name of Speaker	Designation & Organization	Topic	No. of students	Date
1	Amit Kadam	ICICI Securities	Capital Markets in India	60	23/08/2017
2	Preeti Bhatia	Roots Online	Entrepreneurs as architects of New India	90	30/08/2017
3	Ms. Reena	Datri Foundation	Awareness session about Stem cell	95	13/09/2017

			donation		
4	Rohit Deo	Alive Digital	Digital Marketing - A way to future	72	15/09/2017
5	Sonali Banerjee	Tata Technologies	Competency Development & Talent Management	74	22/09/2017
6	Mahesh Kudtarkar	Ghatge Patil Transport Ltd.	Campus to Corporate	65	22/09/2017

Year 2016-17

Sr. No.	Name of Speaker	Designation & Organization	Topic	No. of students	Date
1	Mr. Vishwas Karjekar	Technical Consultant, Divgi Warner Group	Four major things required for MBA	76	10-08-2016
2	Mr. M. B. Khurjekar	Director – CPC, Sinhgad Institutes	Placement Orientation	76	10-08-2016
3	Mr. Anirudha Kothrudkar	GM – Technofour Group	How MBA helps to expand horizons	81	11-08-2016
4	Mr. Santosh Wagh	Head – Materials & Logistics, Kalyani Maxion Wheels Ltd.	Innovation is the only way forward	69	22-08-2016
5	Captain Srinivas	MD, Skyland Ltd.	Youth as Architects of New India	72	16-09-2016
6	Dr. JK Sharma	Professor – International Business School	Non-verbal communication skills	75	21-10-2016
7	Mr. Amit Kadam	Regional Manager – ICICI Securities	Capital Markets in India	69	13-01-2017
8	Mr. Megshyam Chaudhary	MD – Prfofessional Trainers Pvt. Ltd.	How to prepare for SIP Interviews?	57	18-01-2017
9	Ms. Ruchita Jaju	Director - International	Employment Quotient	65	15-02-2017

		Head Recruiters			
10	Mr. Mohan Palesha	District Head	Strategic Leadership	62	01-03-2017
11	Mr. Ashwani Kumar	Sales Manager - UPS India Pvt. Ltd.	How to prepare for Group Discussions?	71	02-03-2017
12	Mr. Dhananjay Maniwade	Manager – Digital Analysis, Nielsen India Ltd.	How to prepare for Group Discussions?	66	07-03-2017

Year 2015-16

Sr. No.	Name of Speaker	Designation & Organization	Topic	No. of students	Date
1	Mr. M. B. Khurjekar	Director – CPC, Sinhgad Institutes	Placement Orientation	77	10-08-2015
2	Mr. Harshad Deshpande	Product Manager – Question Pro Pvt. Ltd.	Online Research made easy with Question Pro	93	25-08-2015
3	Ms. Dharti Shikare	HR Manager – iCare Benefits	Employee Benefits	87	07-09-2015
4	Mr. Sagar Vadapurkar	Consultant – Future Generalli	Why MBA?	105	09-09-2015
5	Mr. Vijay Patole	Branch Manager – SBI Life Insurance Co. Ltd.	Opportunities in BFSI sector	96	23-09-2015
6	Ms. Geeta Nair	Chief Editor, Indian Express Group	Role of Business Newspapers in Modern India	88	14-10-2015
7	Ms. Miny Singh	Soft skills trainer – Syntel	Creation of Seamless Mind	98	21-01-2016
8	Mr. Uday Betawadkar	Chief Consultant – Mastermind Solutions	Entrepreneurship & Business Planning	81	27-01-2016
9	Mr. Arvind Giri	Branch Manager – SBI Life Insurance Co. Ltd.	Job Opportunities in Insurance sector	96	28-01-2016
10	Mr. Rajendra Shivraikar	Associate Vice President - Garware Wall Ropes Ltd.	Lean Management (Toyota Management	78	03-02-2016

			System)		
11	Mr. Ravi Achaliya	Director – XL-Com Solutions	CV Writing session	83	16-03-2016

Year 2014-15

Sr. No.	Name of Expert	Designation	Topic of Lecture	No. of Students	Date
1	Mr. Anand Patel	Product Architect – Cloudscape	Branding	85	04-08-2014
2	Mr. Pradip Patnaik	Product Manager – Grohe India Pvt. Ltd.	Product Life Cycle	93	09-08-2014
3	Mr. Anish Palarpwar	AGM – Tata Motors	Future of Automobile Industry	81	02-09-2014
4	Mr. Kaviraj Gunjal	Practice Head – Tech Mahindra	Employee Engagement Practices in IT Sector	98	12-09-2014
5	Mr. Mangal Gupta	Manager-Sales – Luxor Nano Technology Pvt. Ltd.	Sales & Negotiation techniques	103	09-10-2014
6	Mr. M. B. Khurjekar	Director – CPC, Sinhgad Institutes	Placement Orientation	77	20-10-2014
7	Ms. Dharti Shikare	HR Manager – iCare Benefits	Employee Benefits	87	16-01-2015
8	Mr. Santosh Wagh	Head – Materials & Logistics, Kalyani Maxion Wheels Ltd.	Innovation is the only way forward	69	22-01-2015
9	Ms. Geeta Nair	Chief Editor, Indian Express Group	Role of Business Newspapers in Modern India	88	11-02-2015
10	Mr. Ashwani Kumar	Sales Manager - UPS India Pvt. Ltd.	How to prepare for Group Discussions?	71	25-02-2015

Year 2013-14

Sr. No.	Name of Speaker	Designation & Organization	Topic	No. of students	Date

1	Ms. Miny Singh	Soft skills trainer – Syntel	Creation of Seamless Mind	98	05-08-2013
2	Mr. Mangal Gupta	Manager-Sales – Luxor Nano Technology Pvt. Ltd.	Sales & Negotiation techniques	103	08-08-2013
3	Mr. Uday Betawadkar	Chief Consultant – Mastermind Solutions	Entrepreneurship & Business Planning	81	21-08-2013
4	Dr. JK Sharma	Professor – International Business School	Non-verbal communication skills	75	04-09-2013
5	Ms. Geeta Nair	Chief Editor, Indian Express Group	Role of Business Newspapers in Modern India	88	18-09-2013
6	Mr. M. B. Khurjekar	Director – CPC, Sinhgad Institutes	Placement Orientation	77	25-09-2013
7	Mr. Kaviraj Gunjal	Practice Head – Tech Mahindra	Employee Engagement Practices in IT Sector	98	16-10-2013
8	Mr. Atul Patil	Director, Knowledge Bridge	Career Planning & Guidance	82	12-02-2014
9	Mr. Rajendra Shivraikar	Associate Vice President - Garware Wall Ropes Ltd.	Lean Management (Toyota Management System)	78	26-02-2014
10	Mr. Gokul Naik	Director (Finance & Commercial), Panse Auto Components	Scope of Finance Sector	95	05-03-2014
11	Mr. Surojeet Shah	IIM. Kolkata	IIM Life	91	19-03-2014

33. Teaching methods adopted to improve student learning

The teaching methodologies vary according to the heterogeneous group of students. For the benefits of the students we adopt following teaching and learning practices:

- ➢ Lectures / Interactive sessions
- ➢ Case studies with HBS Cases
- ➢ Assignments/Tutorials
- ➢ Industrial visits, Live Projects
- ➢ Viva and Tests
- ➢ Small group activities
- ➢ Extra input sessions or remedial classes or practice sessions or Self learning sessions

- LCD Presentations
- Expert Lectures and invited talks
- Field Survey
- Value Addition Program
- Project Based Learning

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Sr. No.	Academic Year	Name of event	Dates
1	2016-17	Gurupournima celebration (Conducted by individual dept)	20th July 2016
2		Drawing competition on the occasion of Azadi-70	16th Aug 2016
3		Dahihandi celebration by RMDSSOE students	25th Aug 2016
4		Teacher's Day (Conducted by individual dept)	6th Sept 2016
5		SinhgadKarandak 2017 (Preliminary Round)	9th & 10th Jan 2017
5	2015-16	Mr. & Ms. Sinhgad (Preliminary round-SinhgadKarandak 2016)	12th September 2015
6		SinhgadKarandak	10th to 13th Jan 2016
7		PMC Rally	13th Feb 2016
8		Historical weapons exhibition	20th Feb 2016
9		Appreciation Program	19th Mar 2016
10		Convocation ceremony	5th Apr 2016
11		BE Farewell party (Conducted by individual dept)	2nd Apr 2016
12		Teacher's Day (Conducted by individual dept)	5th Sept 2016
13		Gurupournima celebration (Conducted by individual dept)	31st July 2015
14		Cultural Days celebration	10th Mar 2016 to 12th Mar 2016
15	2014-15	SinhgadKarandak	11th Jan 2015 to 14th Jan 2015
16		B.E. Farewell party	19th Mar 2015
17		Cultural Days celebration	20th Feb & 21st Feb 2015
18	2013-14	SinhgadKarandak	29th Jan 14 to 2nd Feb 2014
19		Fun fair	5th Feb 2014

Summary of all social events conducted in last 5 years

-Sr. No.	Academic Year	Name of event	Dates
1		Yoga Day	21st June 2016
2		Tree plantation	1st July 2016
3		Awareness of Organ Donation by SKN Hospital Doctors	31st Aug 2016
4	2016-17	Sahajyoga sessions for students & staff	Sem-I (2hrs/week)
5		Visit to Kamayani(Mentally challenged institute)	15th Sept 2016
6		Visit to Kamayani(Mentally challenged institute)	15th Sept 2015
7		Sweet distribution to orphanage institute	24th Jan 2016
8		Blanket distribution at Swargate bus stand to needy people	25th Jan 2016
9	2015-16	Lunch arrangement at Matoshri- Old age home.	26th Jan 2016
10		SwachchhataAbhiyan	13th Feb 2016
11		Seminar on Global Warming & Ozone Retention by RajendraShende	20th Feb 2016
12		Blood donation camp	3rd July 2014
13		Visit to Kamayani(Mentally challenged institute)	15th Sept 2014
14		Sweet distribution to orphanage institute	24th Jan 2015
15	2014-15	Blanket distribution at Swargate bus stand to needy people	25th Jan 2015
16		Lunch arrangement at Matoshri Old age home.	26th Jan 2015
17		Women's Day celebration	8th Mar 2015
18		Blood donation	24th Mar 2015
19		Blood Donation	16th Feb 2014
20		Sweet distribution to orphan age institute	24th Jan 2014
21	2013-14	Blanket distribution at Swargate bus stand to needy people	25th Jan 2014
22		Lunch arrangement at Matoshri Old age home.	26th Jan 2014
23		Women Help Awareness by Maharashtra Police	5th Jan 2013
24		Sweet distribution to orphan age institute	24th Jan 2013
25	2012-13	Blanket distribution at Swargate bus stand to needy people	25th Jan 2013
26		Lunch arrangement at Matoshri Old age home	26th Jan 2013
27		Poster competition on "Say no to domestic violence"	28th Feb 2013

35. SWOC analysis of the department and Future plans

SWOC analysis is majorly for improving strength, overcoming weakness, to avail the opportunities and to face the challenges. Keeping this view at department level, we do SWOC analysis with the help of its stakeholders through written and oral feedback mechanisms. SWOC of the department can be considered as following.

STRENGTHS
1. Dedicatedand motivated faculty with relevant Industry Experience.
2. Excellent placements.
3. Strong Industry Collaboration.
4. Industry Board (Various corporate as members).
5. Strong Alumni working in reputed companies.
6. Students are promoted for internships / live projects.
7. Online weekly newsletter – Insight.

WEAKNESSES

1. Lesser Consultancy Projects.
2. Few Ph.D. qualified faculty.

OPPORTUNITIES

1. Become Centre of Excellence in Management Research.
2. Scope for inter-disciplinary research & projects.
3. Increase alumni involvement in academic and placement activities.
4. Part of well establishedSinhgad Technical Education Society, Pune.

CHALLENGES

1. Students with diverse background.
2. Mushrooming growth of new Institutes.

FUTURE PLANS

1. To increase the collaboration with industries and conduct more events with.
2. To practice Project Based Learning (PBL) by creating collaborations with reputed institutions.
3. To obtain research funds from funding agencies like AICTE, UGC, SPPU and other funding schemes.
4. To be counted amongst the top Ten colleges in the region.
5. Become the preferred choice among students aiming to take admission in MBA.

Department of First Year Engineering
Evaluative Report of the Department

1. Name of the department: First Year Engineering

2. Year of Establishment: 2011

3. Names of Programs / Courses offered:

Name of Program	Year of Establishment
UG	2011

4. Names of Interdisciplinary courses and the departments/units involved:

Following Interdisciplinary courses are involved in curriculum of programs:

Sr. No	Name of Interdisciplinary course	Department
1	Nil	

5. Annual/ semester/choice based credit system (programme wise):

UG: FE, semester Pattern with credit system

6. Participation of the department in the courses offered by other departments:

Sr. No.	Class	Course	Department involved
1	SE	M-III	Mechanical Engineering
2	SE	M-III	Civil Engineering
3	SE	M-III	Computer Engineering
4	SE	M-III	Electronics and Telecommunication Engineering
5	SE	M-III	Information Technology

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 posts	Available
Professors	02
Associate Professors	02
Asst. Professors	28
Total	**32**

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt./Ph.D. / M. Phil., etc.,)

Sr. No	Name of faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1.	Dr. C. B. Bangal	Ph. D. (Electrical) M.E. (Electrical)	Professor & Principal/ Director	Electrical	32	03
2.	Dr. S. P. Jagtap	M.Sc. (Physics), Ph.D. (Physics), B.Ed. (Maths, Science)	Associate Professor	Material Science	16	Nil
3.	Dr. S. S. Deo	M.Sc. (Mathematics) Ph.D. (Mathematics)	Professor	Differential Geometry	34	Nil
4.	Dr. Mrs. S. N. Ghorpade	M.Sc. (Mathematics) Ph.D. (Mathematics)	Associate Professor	Image Processing	18	Nil
5.	Mrs. C. K. Lande	M.Sc. (Mathematics) Ph.D. (Pursuing)	Assistant Professor	Hydrology	20	Nil
6.	Mrs. Shikha Saxena	M.Sc. (Mathematics) M.Phil. (Mathematics)	Assistant Professor	Graph Theory	14	Nil
7.	Mrs. A. D. Sapkal	M.Sc. (Chemistry) M.Ed.	Assistant Professor	Inorganic Chemistry	11	Nil
8.	Ms. P. R. Shinde	M. Tech. (Electrical)	Assistant Professor	Power System	5.5	Nil
9.	Mrs. M. S. Patel	M. Tech. (Electrical)	Assistant Professor	Power System	7	Nil
10.	Mrs. S. D. Patil	M.Sc. (Chemistry)	Assistant Professor	Analytical Chemistry	4	Nil
11.	Mr. S. B. Kachale	M.Sc. (Mathematics) B.Ed.(Science)	Assistant Professor	Applied Mathematics	3	Nil
12.	Mr. G. S. Mirajkar	M.E. (Civil)	Assistant Professor	Structures	2	Nil
13.	Mr. A. G. Shelake	M.E. (Civil)	Assistant Professor	Construction & Management	1.5	Nil

14.	Ms. Riddhi Jain	M.E. (Civil)	Assistant Professor	Rock Engineering and Underground Structures	7	Nil
15.	Mr. Patel Yunussalim Babulal	M.E. (Civil)	Assistant Professor	Hydraulics	11	Nil
16.	Mr. Viresh Nagesh Vanarote	M.E. (Computer)	Assistant Professor	Computer Network	3	Nil
17.	Mr. Ritesh Shivanand Bagalkoti	M.Tech. (Computer)	Assistant Professor	Computer Engineering	2.5	Nil
18.	Mr. P. S. Kulkarni	M.E. (Mechanical)	Assistant Professor	Machine Design	1.5	Nil
19.	Ms. Munmun Namdeorao Bhagat	M.E. (Computer)	Assistant Professor	Computer Engineering	2	Nil
20.	Mrs. Shilpa Ajinkya Chavan	M.E. (Computer)	Assistant Professor	Computer Engineering	4.2	Nil
21.	Ms. Kanchan Ravindra Sonawane	M.E. (Computer)	Assistant Professor	Computer Engineering	4.9	Nil
22.	Mr. Vishal Kisan Borate	M.E. (IT)	Assistant Professor	Information Technology	3.9	Nil
23.	Mr. Nitin D. Dhoot	M.E. (Instrumentation)	Assistant Professor	Instrumentation	21	NA
24.	Mrs. Varsha Kshirsagar	M.E. (E&TC)	Assistant Professor	Microwave	16	NA
25.	Mr.Ashish A. Kadlag	M.E. (E&TC)	Assistant Professor	VLSI and Embedded System	3.5	NA
26.	Ms. Rupali A. Patil	M.E. (E&TC)	Assistant Professor	VLSI and Embedded System	02	NA
27.	Mrs. Mrunali P. Makwana	M.E. (E&TC)	Assistant Professor	Signal Processing	0.5	NA
28.	Ms. Shivganga Mujgond	M.E. (IT)	Assistant Professor	Informatiom Technology	06	NA
29.	Mr. Sanjeevkumar Angadi	M. Tech. (CSE) Ph.D. (Pursuing)	Assistant Professor	Computer Science & Engineering	05	NA
30.	Mrs. S. S. Jarag	M.E (Mech)	Assistant Professor	Mechanical	03	NA
31.	Mr. P. Bhoyar	M. Phil	Librarian	Library Science	12	NA
32.	Mr. S. M. Kandgire	M. Ed. (SET)	Sports Director	Sports Edu.	06	NA

11 List of Senior Visiting Faculty:

Sr. No.	Name of Senior Visiting Faculty	Topic
01	Mrs. Pratima Newalkar	Engineering Physics
02	Mrs. Mandakini Patil	Engineering Physics
03	Mrs. Nilam Chirame	Engineering Mathematics

12 Percentage of Lectures delivered, and practical classes handled [Program wise] by temporary Faculty: 6.5 %

13 Student Teacher ratios:-

Year	Students Intake	Teacher(s)	STR
2016-2017	660	32	20.6:1

14 Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Type of Staff	Sanctioned	Filled
Lab Assistant	03	03

15 Qualification of teaching faculty

Sr. No	Qualification	No of Teaching faculty
1	Ph.D.	04
2	M. Ed.	01
3	M. Phil.	03
4	M.E./M. Tech	20
5	M.Sc.	04
	Total	**32**

16 Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 01

17. Departmental projects funded by DST, FIST; UGC, DBT, ICSSR, etc. and total grant received: Nil

18 Research Center /Facility recognized by the university: Nil

19. Publications

Sr. No	Name of Faculty	Books with ISBN	No. of papers published in peer-reviewed journals Faculty/students	Number of publications listed in National\ International National conference	Impact Factor
1	Dr. C. B. Bangal	02	01	--	4.855
2	Dr. S. P. Jagtap	04	06	01	1.398
3	Dr. S. S. Deo	02	04	04	1.85
4	Dr. Sheetal Ghorpade	---	07	03	2.14
5	Mrs. C. K. Lande	---	03	02	1.58
6	Ms. P. R. Shinde	---	01	00	5.5028
7	Mrs. M. S. Patel	---	01	00	1.145
	Total	**08**	**23**	**10**	

20. Areas of consultancy and income generated: Nil

21 Faculty as members in

a) National committees b) International Committees c) Editorial Boards

Sr. No.	Committees	Name of Staff
1	Reviewer: (IEEE) Institute of Electrical and Electronics Engineers	Dr. C. B. Bangal
2	Reviewer: (IJIREEICE) International Journal of Innovative Research in Electrical, Electronics, Instrumentation And Control Engineering	Dr. C. B. Bangal
3	Reviewer: International Journal of Research in Advent Technology (IJRAT : e-ISSN 2321-9637)	Dr. S. P. Jagtap
	Reviewer: International Journal of Research in Engineering and Technology (ISSN 2321-7308)	
4	Reviewer: British Journal of Mathematics and Computer Science(BJMCS)	Dr. S. N. Ghorpade
	Reviewer: Advances in Science, Technology and Engineering Systems Journal (ASTESJ)	
	Reviewer: International Journal of Research in Engineering and Technology (ISSN 2278-0181)	
	Reviewer: IEEE Conference, IoTA, 2016	

22. Student projects: Nil

23. Awards/ Recognitions received by students & faculty:

a) Awards/ Recognitions/Appreciations received by faculty:

Academic Year	Name of The Faculty	Details of Awards / Recognitions/Appreciations	Organization
2015-2016	Dr. Sheetal Ghorpade	ITS from Department of Science and Technology, GoI.	DST
		T.G. from council for international cooperation in science, DAE, GoI	CICS
		Awarded Life Membership by Organization for Women in Science of the Developing world (OWSD).	TWAS

a) Awards / Recognitions received by students:

Academic Year	Name of The Student	Details of Awards / Recognitions/Appreciations	Organization
2015-2016	Mr. Shivam Solanke	Third Prize in State Level Achery Championship	PCMC, PCDAA, Pune

24 List of eminent academicians and scientists/ visitors to the department:

Academic Year	Date	Name	Designation	Purpose of Visit
2016-17	04/08/2016	Dr. Parag Kulkarni	Founder, Chef Scientist & CEO of EKLaT Research and iknowledge Research Labs Pvt. Ltd. Pune	F.E. Induction Programme
2015-2016	27/07/2015	Dr. Nagesh Rajopadehye	Vice President, Accenture Service Pvt. Ltd. Pune	F.E. Induction Programme
2014-2015	01/08/2014	Dr. Deepak Shikarpur	Chairman, Mahratta Chamber of Commerce Industries & Agriculture	F.E. Induction Programme
2013-2014	19/07/2013	Mr. Sachin Wagh	Asst. General Manager, Tata Motors	F.E. Induction Programme

25. Seminars/ Conferences/Workshops organized and the source of Funding:

a) National: Nil

b) International: Nil

26. Student Profile Program/Course Wise:

Academic Year	Applications received	Selected (Total Admissions)	Enrolled	
			M	F
2016-2017	Admission process in the state is only through CAP and governed by Directorate of Technical Education (DTE), Government of Maharashtra. The Institute follows the rules, regulation and guidelines set by Savitribai Phule Pune University, Maharashtra State Government and AICTE.	519	415	104
2015-2016		601	510	91
2014-2015		618	512	106
2013-2014		644	512	132
2012-2013		501	394	107

*M=Male F=Female

27. Diversity of Students

Name of the Course (F.E.) and Year	% of students from the same state	% of students from other States
2016-2017	93.64	6.35
2015-2016	89.68	9.31
2014-2015	94.17	5.82
2013-2014	95.96	4.03

28. How many students have cleared national and state competitive Examinations such as NET, SLET, GATE, Civil services, Defense Services, etc? : Nil

29. Student Progression: Nil

30. Details of Infrastructural facilities:

a) Library

b) Internet facilities for Staff & Students

c) Classrooms with ICT facility

d) Laboratories

a) Library

Department	No. of Titles	No. of Volume
F.E.	254	2107

b) Internet facilities for Staff & Students –**YES; 30 Mbps Leas Line**

c) Classrooms with ICT facility- **YES, Classrooms-09**

d) Laboratories –**YES, Labs -04**

Sr. No.	Laboratory Name	Major Equipments	Total Cost (Rs.)
1	Engineering Physics	He – Ne Laser, Ultrosonic Interferometer	256493.00
2	Engineering Chemistry	Muffel Furnace, Distillation Unit	214549.00
3	Basic Electrical Engineering	Alternator DC Motor - Generator Set, 3 Phase Induction Motor DC Generator Set	669141.00
4	Computer Lab	Computer Systems	2887310.00

31. Number of students receiving financial assistance from College, university, government or other agencies

Year	Category	No. of Students
2017-2018	SC	29
	OBC	158
	SBC	12
	VJNT	42
	ST	05
	EBC	279
2016-2017	SC	39
	OBC	173

	SBC	02
	VJNT	42
	ST	02
	EBC	309
2015-2016	SC	35
	OBC	104
	SBC	04
	VJNT	38
	ST	02
	EBC	70
2014-2015	SC	38
	OBC	98
	SBC	09
	VJNT	32
	ST	00
	EBC	80
2013-2014	SC	25
	OBC	104
	SBC	04
	VJNT	28
	ST	01
	EBC	02

32 Details on student enrichment programmes (special lectures / workshops / seminars) with external experts

Sr. No.	Academic Year	Programs Name	Name of experts	Date	No. of Students
Guest Lectures					
1		Stress Management	Dr. Dhaval Mody, Senior Subject Matter Expert, Round Glass.	20/03/2017	108
2		Enlightenment regarding celebration of 31st December.	Mr. Abhjeet Kulkarni, Quality Manager, Delivery Excellence Group, KPIT, Pune (Member of Hindu Jan Jagruti Samatee)	30/12/2016	104
3	2016-17	Career Guidance	Mr. Mahesh Nandurkar, India Equity Strategist, CLSA India Pvt. Ltd.	05/08/2016	105
4		Recent advances in IT sectors	Mr. Shrikant Lokhande, Director, CTO, Virtual Pixels Technology Pvt. Ltd. Pune	05/08/2016	29
5		Challenges in Communication	Mr. Abhjeet Pande, IT Analyst, Tata Consultancy	05/08/2016	88

		Technology.	Service, Pune		
6		Practical oriented teaching learning approach	Dr. Atul Wadegaonkar, General Manager, Educational e-Governance, MCKL	05/08/2016	73
7		Scope of Engineering Products of Tata Motors in Engineering Disciplines	Mr. Sachin Wagh, Asst. General Manager, Tata Motors, Pune	28/07/2015	206
8		Opportunities and Scope in Civil Engineering	Mr. Suresh Pakhare, Professor at Indian Railway Institute of Civil Engineering, Pune	28/07/2015	110
9	2015-2016	Rising Web Base Technologies & Scope of Employment in IT Sector	Mr. Pritesh Taral, Consultant at HCL – Accenture, Pune	28/07/2015	115
10		Recent trends in IT Industries	Mr. Devdatta Puntambekar, CEO, Sattva Rise technologies, Pvt. Ltd. Pune	28/07/2015	52
11		Telecom Sector: Current Trends and Career Opportunities.	Mr. Naser Gaffar, O and M Head, Reliance communications Pune	28/07/2015	34
12		Introduction to latest technology used in Automobile Engineering.	Mr. Sanjay Karne, General Manager, Mercedez Benz, Pune	02/08/2014	253
13	2014-2015	Journey of Engineering & Importance of Basic Engineering.	Dr. Manohar Patil, Managing Director, Sattva Group, Pune	02/08/2014	88
14		Recent Trends in Digital Signal and Image Processing	Dr. Sachin Ghanekar, Deputy Director, Candence Design Systems	02/08/2014	188
15		Placement Perspectives	Mrs. Archana Wagh, Senior Manager, Cummins India Ltd., Pune	20/07/2013	147
16	2013-2014	Orientation to First Year Engineering Students	Dr. Sujit Pardeshi, Director Academia, Pune	20/07/2013	161
17		Career Opportunities in Civil Engineering	Mr. S. G. Joag, Technical Director, Soil Tech. Pvt. Ltd, Pune	20/07/2013	78

33. Teaching methods adopted to improve student learning

- Use of modern teaching aids like LCD projectors with animated PPT's for effective teaching learning processes.
- Group discussion to improve their fundamentals and inculcate habit of self studies during extra lecture called self learning session.

- Teacher Guardian scheme is an effective tool to improve the personality of the student as well as to solve their academic and personal problems.
- Continuous assessment of students by using e-exam portal with overall performance analysis for the remedial efforts.
- Assignments, tutorials, questionnaire   for improving students writing skills.
- To improve classroom learning, department has applied following practices

Assessment Method

- Various tests (Unit tests and Prelim, Online, etc.) and attendance of students for theory and practical's are used for assessment.
- Mock tests are conducted to evaluate the students understanding.
- Student's feedback is collected for improvement of teaching learning process.

34 Participation in Institutional Social Responsibility (ISR) and Extension activities

Summary of cultural events conducted in last 3 years

Sr. No.	Academic Year	Name of event	Dates
2		Drawing competition on Azadi-70	16th Aug 2016
3		Dahihandi celebration by RMDSSOE students	25th Aug 2016
5		Sinhgad Karandak 2017 (Preliminary Round)	9th& 10thJan 2017
6		Cultural days celebration	6th to 8th Feb 2017
7		Sinhgad Karandak (final round)	9th to 13th Feb 2017
8		Shiv jayanti celebration	17thFeb 2017
1	2015-16	Mr. & Ms. Sinhgad (Preliminary round- Sinhgad Karandak 2016)	12th September 2015
2		Sinhgad Karandak	10th to 13th Jan 2016
3		PMC Rally	13th Feb 2016
4		Historical weapons exhibition	20th Feb 2016
5		Appreciation Program	19th Mar 2016
6		Cultural Days celebration	10th Mar 2016 to 12th Mar 2016
1	2014-15	Sinhgad Karandak	11th Jan 2015 to 14th Jan 2015
2		Cultural Days celebration	20th Feb & 21st Feb 2015
1	2013-14	Sinhgad Karandak	29th Jan 14 to 2nd Feb 14(tentative)
2		Fun fair	5th Feb 2014

Summary of all social events conducted in last 3 years

Sr. No.	Academic Year	Name of event	Dates
1	2016-17	Yoga Day	21st June 2016
2		Tree plantation	1st July 2016
3		Awareness of Organ Donation by SKN Hospital Doctors	31st Aug 2016
4		Sahajyoga sessions for students & staff	2hrs/Week
5		Visit to Kamayani(Mentally challenged institute)	15th Sept 2016
6		Sweet distribution to orphanage institute	24th Jan 2017
7		Blanket distribution at Swargate bus stand to needy people	25th Jan 2017
8		Lunch arrangement at Matoshri- Old age home.	26th Jan 2017
9		Haemoglobin checkup for girls & lady faculty members	8th Mar 2017
10		Poster competition on "Save the girl child"	9th Feb 2017
1	2015-16	Visit to Kamayani(Mentally challenged institute)	15th Sept 2015
2		Sweet distribution to orphanage institute	24th Jan 2016
3		Blanket distribution at Swargate bus stand to needy people	25th Jan 2016
4		Lunch arrangement at Matoshri- Old age home.	26th Jan 2016
5		Swachchhata Abhiyan	13th Feb 2016
1	2014-15	Blood donation camp	3rd July 2014
2		Visit to Kamayani (Mentally challenged institute)	15th Sept 2014
3		Sweet distribution to orphanage institute	24th Jan 2015
4		Blanket distribution at Swargate bus stand to needy people	25th Jan 2015
5		Lunch arrangement at Matoshri Old age home.	26th Jan 2015
6		Women's Day celebration	8th Mar 2015
7		Blood Donation	24th Mar 2015
1	2013-14	Blood Donation	16th Feb 2014
2		Sweet distribution to orphan age institute	24th Jan 2014
3		Blanket distribution at Swargate bus stand to needy people	25th Jan 2014
4		Lunch arrangement at Matoshri Old age home.	26th Jan 2014

1	2012-13	Women Help Awareness by Maharashtra Police	5th Jan 2013
2		Sweet distribution to orphan age institute	24th Jan 2013
3		Blanket distribution at Swargate bus stand to needy people	25th Jan 2013
4		Lunch arrangement at Matoshri Old age home	26th Jan 2013

35. SWOC analysis of the department and Future plans

Strengths:
- Experienced and well qualified faculty.
- Adaptability to innovative teaching methodologies.
- Multidisciplinary team work
- Parental care of students for overall growth of student through Teacher Guardian scheme.

Weaknesses
- Less number of research publications and projects
- Lack of quality result

Opportunities
- To develop research based pedagogical tools.
- To motivate and enroll all faculty for qualification upgradation.

Challenges
- To improve results
- To attract the meritorious students.
- To make the students competent to face the challenges in academics.

Future Plan:

Short Term:
- Encourage staff to do Ph.D.
- Effective implementation of K-point.

Long Term:
- To introduce subject based mini projects to increase interest and better understanding of subject.

Sinhgad Technical Education Society's

RMD SINHGAD TECHNICAL INSTITUTES CAMPUS

Sinhgad Institutes   Approved by AICTE, New Delhi, Recognized by Government of Maharashtra, affiliated by S.P. Pune University

Off.: S. No. 111/1, Warje, Pune - 411058 **Tel.:** 020 - 25218402 **Telefax:** 25218405 **E-mail:** principal.rmdssoe@sinhgad.edu

Regd. Off.: STE Society, 19/15, Erandwane, Smt. Khilare Marg, Off. Karve Road, Pune - 411 004 **Telefax:** +91-20-25459751 **Web:** www.sinhgad.edu

Prof. M. N. Navale	Dr. (Mrs.) Sunanda M. Navale	Dr. C. B. Bangal
M.E. (ELEC.), MIE, MBA	B.A., M.P.M., Ph.D.	M.E.(Electrical),Ph.D.,B.J.
FOUNDER PRESIDENT	**FOUNDER SECRETARY**	**PRINCIPAL**

Date: 29/03/2017

Declaration by the Head of the Institution

I certify that the data included in this Self Study Report (SSR) are true to the best of my knowledge. This SSR is prepared by the institution after internal discussions and no part thereof has been outsourced.

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

Place: Pune
Date: 29/03/2017

(Dr. C. B. Bangal)
Director

Sinhgad Technical Education Society's

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FOUNDER PRESIDENT	**FOUNDER SECRETARY**	**PRINCIPAL**

Date: 29/03/2017

Certificate of Compliance

This is to certify that, STES's Rasiklal M. Dhariwal Sinhgad Technical Institutes Campus, Warje, Pune 411058 fulfils all norms;

1. Stipulated by the affiliating University
2. Regulatory Council [AICTE] and
3. The affiliation and recognition of University is valid as on date.

It is noted that, NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false, 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: 29/03/2017

(Dr. C. B. Bangal)
Director

Savitribai Phule Pune University

(Formerly University of Pune)

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Ref. No. : CA/243

Date : 22 /03/2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Sinhgad Technical Education Society's RMD Sinhgad Technical Institutes Campus, S. No. 111/1, Warje, Pune 411 058 is affiliated to the Savitribai Phule Pune University, since 2011 (PU/PN/ENGG/428/2011) and the following courses are taught in the said college as per approval.
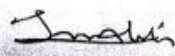
Courses **Under Graduate**	Duration of the Course	Affiliation (Permanent / Temporary)	Validity Period
Information Technology	4 Year	Temporary	Upto 2016-17
Computer Engineering	4 Year	Temporary	Upto 2016-17
Electronics and Telecommunication Engineering	4 Year	Temporary	Upto 2016-17
Mechanical Engineering	4 Year	Temporary	Upto 2016-17
Mechanical Engineering (Second Shift)	4 Year	Temporary	Upto 2016-17
Civil Engineering	4 Year	Temporary	Upto 2016-17

P.T.O.

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Courses Post Graduate	Duration of the Course	Affiliation (Permanent / Temporary)	Validity Period
E & TC (Embedded Systems & VLSI Design)	2 Year	Temporary	Upto 2016-17
Information Technology	2 Year	Temporary	Upto 2016-17
Computer Engineering	2 Year	Temporary	Upto 2016-17
Computer Engineering (Second Shift)	2 Year	Temporary	Upto 2016-17
Mechanical Engineering (Design)	2 Year	Temporary	Upto 2016-17
Civil Engineering (Construction Management)	2 Year	Temporary	Upto 2016-17
M.B.A.	2 Year	Temporary	Upto 2016-17
M.C.A.	3 Year	Temporary	Upto 2016-17

The said certificate is issued as per the request application received from the Principal of the college Ref. No. RMDSTIC/2017-18/377, dated 17/03/2017 so as to submit it to the National Assessment and Accreditation Council (NAAC), Banglore.

Dy. Registrar
(Academic Section)