Progressive Education Society's

Modern College of Engineering

1186 A, Shivajinagar, Off. J.M. Road
Pune 411005

Annual Quality Assurance Report

2016-2017

Submitted to
National Assessment and Accreditation Council
Bangalore, India.

The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

1. Details of the Institution

1.1.	**Name of the Institution**	Progressive Education Society's Modern College of Engineering
1.2.	**Address Line 1**	1186 A, Shivajinagar, Off. J.M. Road
	Address Line 2	Tal: Haveli,
	City/Town	Pune-411005
	State	Maharashtra
	Pin Code	411005
	Institution e-mail address	principal@moderncoe.edu.in pesmcoe@gmail.com/
	Contact Nos.	020-25553638/648
	Name of the Head of the Institution	Prof. Dr.(Mrs.) K.R. Joshi
	Tel. No. with STD Code:	020-25553638
	Mobile	9011070917
	Name of the IQAC Co-ordinator	Prof. Dr. (Ms.) M.V. Arjunwadkar
	Mobile	9960611275
	IQAC e-mail address	iqac@moderncoe.edu.in

1.3.   NAAC Track ID (For ex. MHCOGN 18879):   MHCOGN14275

1.4.   Website address: http://www.moderncoe.edu.in

Web-link of the AQAR: http://www.moderncoe.edu.in/IQAC/AQAR_2016-17.pdf

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1.5. Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	**B**	**2.45**	**2011**	**5 yrs**
2	2nd Cycle	**A**	**3.10**	**2017**	**5 yrs**
3	3rd Cycle	NA	NA	NA	NA
4	4th Cycle	NA	NA	NA	NA

1.6. Date of Establishment of IQAC : 05/01/2010

1.7. AQAR for the year (for example 2010-11) 2016-17

1.8. Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted to NAAC on 12-10-2011)*

   i.   AQAR *2011-12 submitted to NAAC (On-line) on 10/09/2012*

   ii. AQAR *2012-13 submitted to NAAC (On-line) on 23/12/2013*

   iii. AQAR *2013-14 submitted to NAAC on 21/09/2015*

   iv. AQAR *2014-15submitted to NAAC on 22/02/2016*

   v.   AQAR *2015-16 submitted to NAAC on 27/07/2016*

1.9. Institutional Status

University   State √ Central ☐ Deemed ☐ Private ☐

Affiliated College   Yes √   No ☐

Constituent College   Yes ☐   No √

Autonomous college of UGC   Yes ☐   No √

Regulatory Agency approved Institution   Yes √   No ☐

(eg. **AICTE,** ~~BCI, MCI, PCI, NCI~~)

Type of Institution   Co-education √   Men ☐   Women ☐

                Urban √   Rural ☐ Tribal ☐

Financial Status   Grant-in-aid ☐   UGC 2(f) √ UGC 12B √

                Grant-in-aid + Self Financing ☐   Totally Self-financing √

1.10. Type of Faculty/Programme

Arts ☐ Science ☐ Commerce ☐ Law ☐ PEI (Phys Edu) ☐

TEI (Edu) ☐ **Engineering** ☑ Health Science ☐ **Management** ☑

Others (Specify) ☐

1.11. Name of the Affiliating University *(for the Colleges)* | Savitribai Phule Pune University(SPPU)

1.12. Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University | -

University with Potential for Excellence | - | UGC-CPE | -

DST Star Scheme | - | UGC-CE | -

UGC-Special Assistance Programme | - | DST-FIST | -

UGC-Innovative PG programmes | - | Any other (*Specify*) | -

UGC-COP Programmes | -

2. IQAC Composition and Activities

2.1. No. of Teachers | 13

2.2. No. of Administrative/Technical staff | 1

2.3. No. of students | 2

2.4. No. of Management representatives | 1

2.5. No. of Alumni | 2

2.6. No. of any other stakeholder and community representatives | 2

2.7. No. of Employers/ Industrialists | 1

2.8. No. of other External Experts | 1

2.9. Total No. of members | 24

2.10. No. of IQAC meetings held | 6

2.11. No. of meetings with various stakeholders: No. | 38 | Faculty | 15 |

Non-Teaching Staff | 8 | Students | 5 | Alumni | 4 | Others | 6 |

2.12. Has IQAC received any funding from UGC during the year?   Yes | | No | √ |

If yes, mention the amount | Nil |

2.13. Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. | 26 | International | 0 | National | 1 | State | 0 | Institution Level | 25 |

(ii) Themes

- NAAC/ NBA accreditation
- Soft skill and personality Development
- Yoga and Mediation

2.14. Significant Activities and contributions made by IQAC

The Institute has established its IQAC cell in the year 2010. Each department also has an IQAC representative. The main activities and contribution of IQAC cell of the Institute are:

- Draft, evaluate and implement academic and administrative policies.
- Submit various proposals for workshops, seminars, conferences, minor/major projects to funding agencies
- Organize different Seminars, workshops for students and staff
- Compile different reports like Annual Report for Institute and University , AISHE report, Annual Quality Assurance Report (AQAR) etc
- Submit the Institute data to different agencies like University, DTE, AICTE, NIRF,CII etc.

2.15. Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

Plan of Action	Achievements
Apply for NBA accreditation	- In-process - AICTE& ISTE Approved One week National Level FDP titled ' Strategies and Practical Approaches of Outcome Based Education and NBA Process organized in Computer Engineering Department
Arrange more activities in collaboration with Professional Societies	- One week Faculty development programme on "Enhanced Learning through various audits in Electrical Engineering in association with Institution of Electrical & Electronics Engineers (IEEE) and Institution of Engineers (IEI). - A State Level Project Exhibition was organised in association with Institution of Electrical & Electronics Engineers (IEEE) and Institution of Engineers (IEI). - Guest Lecture on HV Measurement in EHV Substation. - Guest Lecture on Illumination Audit - Perspectives & Prospects. - Guest Lecture on Pollution due to lights and Eco-friendly lights - Inaugural Ceremony of IETE Students' Forum & session on "Advaces in Digital Communication" - Robo on Wheels - A Talk on "JPEG emerging standards" - A one day workshop on Simulink
Enhance R&D and Consultancy activities with collaborative Research projects	Online Inauguration of e-Yantra Lab
Strengthen industry institution interaction	- Industrial Visit to Thuse Electronics - Seminar on Industrial Process Automation - Seminar on Digital Signal Processor and Multi rate Processing. - Session on IOT - Workshop on Industrial Automation by using PLC - BE Project Orientation
Organize Short Term Training Programs(STTP) for faculty development	- Two week ISTE STTP on electrical power system held under National Mission and Education through ICT (MHRD) organised by Indian Institute of Technology Kharagpur - Two days Aurdino Basics, Applications and Hands on Practices held under SPPU organised by MarathwadaMitra'sMandal College of Engineering Pune. - One week STTP on" Strategies and Practical Approaches of Outcome Based Education and NBA Process" held under SPPU organised by PES's Modern College of Engineering.

Skill development trainings for teaching and non teaching staff	• A Training on Calibration of Electrical Measuring Instruments organized by PES,s Modern College of Engineering Electrical Engineering Department in Association With Sohamm Calibration Service. • Hand on Training of PSIM software for Power Electronics in association with Trident Techlabs Pvt. Ltd. Pune organized by Department of Electrical Engineering, PES's Modern College of Engineering. • Reimagining Interconnection Rules and Procedures for Next Generation Technologies and Updated Standards organized by PESMCOE Department of Electrical Engineering with IEEE. • One week Development Programme in Enhanced learning in Various Energy Audits organised by PES's Modern College of Engineering. • A Training Session on Moodle, Latex • Workshop on Introduction To Labview
Strengthen Training and Placement activities in coordination and help of alumni.	• BRAINVITA "Let's test our logic! • CRACKING GATE" –Tips, Tricks & Strategies • A session on Personality Development and Training Program • Debating Competition • Technical Test • A Coding Completion: Fetch decode and answer • A session on Resume Writing • Session on Career opportunities in management and higher studies at abroad • A seminar on Project Management • A session on Interview skill tips • A seminar on PCB Designing in Proteus • Guest Lecture on Carrier Guidance by Mr. Girish Khedkar, • Guest Lecture on Role of Electrical Engineer in Petroleum & Petrochemical Industry by Mr.Balasaheb Rutawal,. • Employability training and skill enhancement of engineering students by Mr. Jyotinath Chaudhari. • Guest Lecture on Higher Studies for T.E.(Ist and II nd Shift) by Mr.Dayanand M. • Leadership development for TE Students by Mr.Praful Hanwante **Training and Placement activities in coordination and with the help of Alumni** • Futuristic Approaches for E&TC Graduates • Campus placement guidelines • Guidance in Mini Project Exhibition
Infrastructure enrichment by Landscape garden, more seating arrangement and additional parking	• Fully Wi-fi enabled Campus. • Construction of additional parking shed for students. • Construction of landscape garden and seating arrangement for students

Automation for recording on-line feedback from students and stakeholders	• In-house developed software for On-Line feedback which is useful to record and analyze the feedback from student and other stakeholders • Software developed by MCA students under the guidance of Faculty.

2.16. Whether the AQAR was placed in statutory body   Yes √   No ☐

Management √   Syndicate -   Any other body -

Provide the details of the action taken

- AQAR is approved by management
- The management is satisfied on the efforts taken on the compliances of previous year
- Advice given to strength research activities and improvement of participation of faculty in FDP/STTP/seminar/workshops for the forthcoming academic year 2017-18

Part – B

Criterion – I
Curricular Aspects

1.1. Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	4	Nil	4	Nil
PG	6	Nil	6	4
UG	5	Nil	5	63
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	Nil	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
Total	**15**	**0**	**15**	**67**

Interdisciplinary	Nil	Nil	Nil	Nil
Innovative	Nil		Nil	Nil

1.2. (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
- CBCS,Core,Elective option ,Open elective, Audit Courses are offered

(ii) **Pattern of programmes:**

Pattern	Number of programmes
Semester	11
Trimester	0
Annual	0

1.3. Feedback from stakeholders*   Alumni [√] Parents [√] Employers [√] Students [√]
(On all aspects)

Mode of feedback   :   Online [√]   **Manual** [√]   Co-operating schools (for PEI) [ ]

1.4. Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.
- Syllabus Revision for T.E.
- Audit course is added in the syllabus in all engineering courses.

1.5. Any new Department/Centre introduced during the year. If yes, give details.

Nil

Criterion – II
Teaching, Learning and Evaluation

2.1. Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
233*	219	06	08	
On Roll (including adhoc)				

2.2. No. of permanent faculty with Ph.D. 20   *including Adhoc

2.3. No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
219	00	6	42	8	17				

* Assistant Professors are more than requirement

2.4. No. of Guest and Visiting faculty and Temporary faculty   52   31   0

2.5. Faculty participation in conferences and symposia

No. of Faculty	International level	National level	State level
Attended	12	8	4
Presented papers	96	7	19
Resource Persons	-	-	-

2.6. Innovative processes adopted by the institution in Teaching and Learning:

Following are the details of innovative teaching approaches adopted:

- Extensive use of various tool viz, NPTEL, Simulations, Virtual Labs, PPTs and Charts along with black board teaching is also effected, for demonstration of various concepts
- MOCK practicals conducted before actual examinations.
- Working prototype models are used.
- The students are also encouraged for group learning through various group activities like assignments, mini projects etc.
- Industrial visits for the students in order to witness the industrial practices and have an exposure to industrial culture .this helps the students to correlate the theoretical and practical aspects of the subject. Efforts made by the Institution:
- The Institute makes arrangement to telecast special Webinars on the related topics.
- E-learning resources like IEEE Digital library, Science Direct for journals and e-books are also available
- Linkages with National agencies like e-Yantra (IIT Bombay).

2.7. Total No. of actual teaching days during this academic year   168

2.8. Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- As per University policy the College authority has appointed College Examination Officer who monitors all the internal and external examinations.
- The Institute formed Examination Committee to work along with College Examination Officer.
- Mid-term tests, Class tests, open book tests have been conducted in respective departments.
- Mock online examinations with the help of Google Apps. and MOODLE
- A Continuous Assessment has been done for theory and practical subjects.

2.9. No. of faculty members involved in curriculum restructuring /revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

14	2	5

2.10. Average percentage of attendance of students

75

2.11. Course/Programme wise distribution of pass percentage

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
Mechanical	208	31.25	29.80	12.98	1.92	-
E&TC Engg	132	54	27	6	1.5	-
Computer Engg	67	65.67	28.35	2.98	-	-
Electrical	130	64.61	24.61	3.8	-	-
IT. Engg.	151	56.29	32.45	5.29	-	-
MBA	78	6	52	36	-	-

Title of the Programme	Total no. of students appeared	Division				
		'O'	'A'	'B'	'C'	'F'
MCA	35	28.57	28.57	25.71	14.28	2.85

2.12. How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes

The IQAC contributes in improving teaching learning process.

- Academic Record Booklet is maintained for per subject per semester for monitoring attendance of students and their performance.
- Academic Record Booklet is evaluated by academic planning committee through internal academic audit.
- Life management skills lecture series is regularly conducted to motivate staff and students.
- Various clubs are formed for self learning and motivation.
- Usage of ICT is promoted.
- Use of SMS, e-mails, group mails used for effective communication is encouraged.
- Online tutorials are introduced
- Seminars, workshops, Webinars were arranged in departments under Quality Improvement Programs.
- Industrial visits and Lectures of Industry experts are organized in a periodic manner as a part of curriculum.
- Intranet based Teacher Evaluation Feedback software is used by student in midterm as well as at term end

2.13. Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	*Number of faculty benefitted*
Refresher courses	3
UGC – Faculty Improvement Programme	17
HRD programmes	11
Orientation programmes	4
Faculty exchange programme	Nil
Staff training conducted by the university	26
Staff training conducted by other institutions	50
Summer / Winter schools, Workshops, etc.	19
Others	97

2.14. Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	79	-	00	-
Technical Staff	34	-	00	-

Criterion – III
Research, Consultancy and Extension

3.1. Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Submitted various research proposals to different funding agencies
- Encouraged staff members and students to publish/present research papers Organized and attended seminars/workshops/conferences on various topics.
- Provided E-resources to staff members and students.
- Students from UG & PG participate in the university level project competitions like 'AVISHKAR' which is organized by SPPU.
- Motivated students to develop In-house (mini) projects under faculty guidance.
- All departments organized project exhibition and competition in the Institute in association with professional bodies like IEEE, IEI, CSI, IETE, SAE, ASME etc. to motivate students.
- Supported Industrial training and sponsored projects.
- The Institute motivates and assists the students to participate in the national /international competitions like BAJA, SUPRA, ROBOCON where the students are supposed to design and fabricate various types of vehicles.
- Arranged various Industrial visits, guest lecturers from Industry experts. Technical inter collegiate competitions are conducted like circuit design, black coding, Smart Villa, Robo race etc.

3.2. Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	-	-
Outlay in Rs. Lakhs	-	-	-	-

3.3. Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	2	2	-
Outlay in Rs. Lakhs	-	-	3.40	-

3.4.   Details on research publications

	International	National	Others
Peer Review Journals	76	Nil	Nil
Non-Peer Review Journals	21	Nil	Nil
e-Journals	1	Nil	Nil
Conference proceedings	26	Nil	Nil

3.5. Details on Impact factor of publications:

Range 2-6   Average 3.7   h-index 4.   Nos. in SCOPUS 10

3.6. **Research funds sanctioned and received from various funding agencies, industry and other organisations**

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (Rs.)	Received (Rs.)
Major projects	Nil	Nil	Nil	Nil
Minor Projects	2015	BCUD	3,40,000	2,35000
Interdisciplinary Projects	Nil	Nil	Nil	Nil
Industry sponsored	Nil	Nil	Nil	Nil
Projects sponsored by the University/ College	Nil	Nil	Nil	Nil
Students research projects *(other than compulsory by the University)*	Nil	Nil	Nil	Nil
Any other(Specify)	2016	SPPU(QIP, VidyarthiKalyanMandal	7,53,000	7,53,000
		TBT-Challenge-2016 in collaboration with IIT-Mumbai titled E-Yantra.	81144	81144
Total	-	-	**11,74,144**	**8,34,144**

3.7. **No. of books published**   i) With ISBN No.   Chapters in Edited Books

ii) Without ISBN No. | 01 |

3.8. **No. of University Departments receiving funds from**

UGC-SAP | Nil | CAS | Nil | DST-FIST | Nil |

DPE | Nil | DBT Scheme/funds | Nil |

3.9. **For colleges**   Autonomy | Nil | CPE | Nil | DBT Star Scheme | Nil |

INSPIRE | Nil | CE | Nil | Any Other (specify) | Nil |

3.10. **Revenue generated through consultancy** | 66500 |

3.11. **No. of conferences /seminars organized by the Institution**

Level	International	National	State	University	College
Number	Nil	01	04	01	112
Sponsoring agencies		BCUD SPPU	BCUD SPPU, IEEE, AICTE	Self funded	College Management

3.12. **No. of faculty served as experts, chairpersons or resource persons** | 04 |

3.13. **No. of collaborations**   International | 0 | National | 1 | Any other | 16 |

3.14. **No. of linkages created during this year** | 13 |

3.15. Total budget for research for current year in lakhs

From Funding agency | Nil | From Management of University/College | 104.74 (Rs. In lakhs)

Total | 104.74 (Rs. In lakhs)

3.16. No. of patents received this year

Type of Patent		Number
National	Applied	4
	Granted	Nil
International	Applied	Nil
	Granted	Nil
Commercialised	Applied	Nil
	Granted	Nil

3.17. No. of research awards/ recognitions   received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
04	04	Nil	Nil	Nil	Nil	Nil

3.18. No. of faculty from the Institution who are Ph. D. Guides and students registered under them

04

11

3.19. No. of Ph.D. awarded by faculty from the Institution   Nil

3.20. No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF | Nil   SRF | Nil   Project Fellows | Nil   Any other | 06

3.21. No. of students Participated in NSS events:

University level | 325   State level | 250

National level | 75   International level | Nil

3.22. No. of students participated in NCC events:

University level | Nil   State level | Nil

National level | Nil   International level | Nil

3.23. No. of Awards won in NSS:

University level | Nil   State level | Nil

National level | Nil   International level | Nil

3.24. No. of Awards won in NCC:

University level | NA   State level | NA

National level | NA   International level | NA

3.25. No. of Extension activities organized

University forum	01	College forum	06		
NCC	Nil	NSS	18	Any other	30

3.26. Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility.

Institutional Level activities

a) **NSS :**
- Blood Donation Camp was conducted on 30th August 2016.
- Organised 'Guru Pournima' on 19th July 2017
- Planted tree on 16th July 2017
- Police Mitra was organized on 05th September 2016 to 16th September 2016 in coordination with Pune police, Savitribai Phule Pune University's National Service Scheme decided to help police department during Ganesh Festival
- Organized rally about Organ Donation on 30th August 2017
- N.S.S. team celebrated 47th N.S.S. foundation day, on 24th September 2016 .
- The 67th Republic Day was celebrated in all its solemnity and grandeur on 26th January 2017.
- Second Winter Camp at Mavdi (KP) was conducted on 12th To 18th February 2017.

b) **Karmanya**
- Publication of the college annual magazine 'Karmanya' theme-'**India–unity in diversity**'
- Pan Card Camp conducted on 22nd February 2017.
- Two PUC Camps were conducted. First one on 21st July 2016 and second one on 24th January 2017.
- Blood Donation Camp organized on 30th January 2017.
- Muktachand -Art, Rangoli, Poem Exhibition, organized on 22nd February 2017.
- Team Karmanya also interviews renowned people in different fields like social, technical, cultural etc. This year, Karmanya interviewed Ms. Mohan Palashe, Mr. Anil Mahadev Shinde. Mr. Anil Awachat , Mr. Prashant Damale and Prashant Vitalakar.

c) **Vidyarathi Kalyan Manch**
- Organized a health camp on Bone density Check-up for girls on 3rd January 2017
- Organized Workshop on Disaster management : FIRE FIGHTING PRACTICE AND AWARENESS on 15th February 2017 ,Guest Speaker: Col. V. N. Supanekar.
- A lecture series 'Vicharghan' on life skill management was organized from 22nd to 24th August 2016
- 'Vishesh Margadarshan Yojana' was organized from 6th August 2016 to 20th March 2017 by our staff , Dr. S.B.Kulkarni and Prof. V.S.Raote

d) **'M-Pulse' '** annual National level Techno-Management event
- The event 'circuit hunt' was conducted mainly to test the technical as well as practical knowledge of students related to circuits.
- The event **CITY VILLA (TECHNICAL)** in which the students were given an 'A1' size sheet and were asked to prepare a 'Smart City' layout.
- The event **TECHICAL QUIZ** helped the participants to develop their Technical Knowledge, Decision making Ability skills and the body language as well.
- 'START UP' competition held under M-PULSE 2k17, which means invention or a business case. It included ideas such as 'Car sensor to avoid accidents', 'Self charging electrical bicycle', Wind farm tree etc.

- **Code Fiesta,** the technical event is organized. The competitions under code feasta are:
  - o **Allied force coding -** Participants were required to design and code an algorithm based on the given problem statement in a relay fashion.
  - o **Frenzy Search** - This event was organized keeping in mind the students of first year. A set of random questions were given which were to be solved by searching appropriately on Google.
  - o **Maze Coders -** Participants were expected to solve the problems, where the puzzles were very well constructed and clues are hidden inside the Linux file system. This event was sponsored by Computer Society of India (CSI).
  - o **Gateways to Internet (Social Event**) - 'Gateways to Internet' was organized to provide basic knowledge of Internet to 28 girls of class 8th and 9th of Mahila Seva Mandal (An Orphanage) .Under this workshop students got hands on experience of surfing of the Internet. This event was also sponsored by Computer Society of India (CSI).
  - o **Online Aptitude Test** - Online Aptitude Test (Brain stormer Club's Activity) was arranged to help students prepare for employer assessments, Learn what aptitude tests are, how to prepare, and to practice online aptitude test questions.
  - o **Technical Presentation -** Technical Presentation (Book Geek club's Activity) Student presentation on different technical innovative ideas. 15 students presented their ideas.

e) **Professional society activities:**
  - **UNDER CSI :**
    - The department has organized a Workshop on LATEX on 16/07/2016:Name of Resource person: Prof. A. S. Rumale
    - The department has organized a Two day workshop on Android on 29, 30 August 2016: Name of Resource person: Mr. Pradip Narayankar
    - The department has organized a Two day workshop: Name of Resource person: Dr. Vijay Gokhale
    - The department has organized a Workshop on robotics on 28 Sept. 2016: Name of Resource person: Mr. Ayush Singhal & Mr. Diwakar Pal
    - The department has organized a Three Days Workshop On Core Java from 30/1/2017 to 1/2/2017: Name of Resource person: Mr. Tushar Kute
    - The department has organized   a seminar on Project Selection To Completion on 23/1/2017: Name of Resource person: Mr. Pradip Narayankar

  - **Under IEEE:**
    - The department has organized a Technology Dissemination Contest for Students on 27th August 2016
    - The department has organized a Signal Processing Project Competition on 6th August: Name of Resource Person: Mr Mandar Kulkarni & Mr S S Kadam
    - The department has organized A lecture on Digital Signal Processing & Multi-rate Processing on 27 Sept 2016: Name of resource person: Mr. Ganesh Totala, Pune.
    - The department has organized a JPEG Emerging Standards on 6th January 2017: Name of resource person: Mr. Ambarish Natu, Australia
    - The department has organized a A one day workshop on Simulink on Saturday, 18th February 2017: Name of resource person: Mr. Shantanu Karnik
    - The department has organized a JPEG emerging standards: Talk on Friday, 6th January 2017:Name of resource person: Mr. Ambarish Natu

  - **Under IEI:**
    - The department has organized a Guest Lecture Power Quality on 18.07.2016: Name of resource person: Mr. Narendra Duvedi
    - The department has organized an Utilization of various materials in design of electrical equipments on 23.07.2016:Name of resource person: Mr. Amol Dasade

- The department has organized a State Level Project Exhibition on 25/03/2017:Name of resource person: Dr.D.J.Doke, Chair, PES/IAS Chapter of Pune Section
- The department has organized a Guest Lecture on 11/03/2017: Name of resource person Mr. Rupesh Gaikwad,Ex. Engr,MSETCL Pune

- **Under IETE:**
  - The department has organized an Inaugural Ceremony of ISF and Session on Advances in Digital communication on 10/09/2016: Name of resource person: Mr .K.Dawara & Mr. Shende
  - The department has organized a Session on "GSM Architecture Overview & Evaluation " on 20/9/2016 : Name of resource person: Mr. Tanmoy Sinha
  - The department has organized a Session on "Robo on Wheels" on 24/09/2016 : Name of resource person: Mr. Nachiket Kulkarni

- **Under PMA:**
  - The department has organized a PMA Student Chapter Inauguration and address to student by Mr. Pradeep Tupe (Vice President PMA) on 03/10/2016:Name of resource Person: Mr. Pradeep Tupe
  - The department has organized a Women Empowerment through awareness of Safety By PSI Vaishali Purushottam Sajjan on 03/10/2016 :Name of resource Person: PSI Vaishali Purushottam Sajjan
  - The department has organized an Cyber crime and protection by law on 03/10/2016: Name of resource Person: PSI Swati Vilas Deodhar
  - The department has organized a Key Performance Indicator and SWOT on 20/10/2016: Name of resource Person: Mr. Pravin Potdar
  - The department has organized a Seminar on Talent Assessment Analysis Test on 17/01/2017:Name of resource person: Mr. Jitendra Sandu, Chief Operating Officer-Talentmat
  - The department has organized a Seminar organized on the topic "Overview of Online Marketing for Small and Medium Business" on 21/04/2017:Name of resource person: Mr. Soumitra Ghotikar, Founder JobWeb Services, Trainer and Writer

- **Under SAE:**
  - The department has organized a Celebration of Gurupornima—Jointly by MESA & SAE on 19/07/2016
  - The department has organized a Celebration of Engineer's Day & Teachers' Day Jointly by MESA &SAE on 20/09/2016
  - The department has organized a Techspark(reverse engineering based project exhibition) on 10th&11th Feb 2017:Name of resource person: Kunal Chaudhari
  - The department has organized a Display of Traffic awareness posters at Auto Expo 2017 on 13th to 16th Jan 2017 :Name of resource person: Ambreesh Vaidya

f) **Clubs Activities:**
- **Club Name: Pegasus Club**
  - The department has organized an Auto India Racing Championship16th March 2017 to 19th march 2017 atDhole Patil College Of Engineering, Pune :Name of coordinator:Prof. S.V. Gosavi
  - The department has organized an Indian Karting Championship on 26th January 2017 To 29th January 2017 :Name of coordinator:Prof. S.V. Gosavi
  - The department has organized a MEGA ATV CHAMPIONSHIP 2017on 13th March 2017::Name of coordinator:Prof. Y A Kadam

- **Club Name: Traffic Forum**
  - The department has organized a Lecture on "All About Pune Metro"Saturday, 07/01/2017:Name of coordinator:Prof. P. G. Rasal

- The department has organized an Helmet Drive on Tuesday, 27th Sept, 2016:Name of coordinator:Prof. P. G. Rasal
- Under Traffic forum the department has organized a Street Play at KhandojibabaChowk and BalgandharvaRangamandir6th of October 2016

- **Club Name: Environmental Club**
  - The department has organized Street play on the topic "Effect of E- Waste and plastic on waste" on 27th August 2016:Name of Coordinator:Prof. P. S. Pawar&Prof. A.M.Dharme
  - The department has organizedVrukshaBandhan – Bonding with Trees on18th August 2016:Name of coordinator: Prof. K. R. Kapadan
- **Club Name: Brain Stormer's**
  - The department has organized an Online Aptitude Test on 10th Feburary,2017 Friday :Name of Coordinator: Mrs.LaxmiSisode ,Mrs.PallaviBaviskar
  - The department has organized a Soft Skills Workshop on 17th and 18th Feb 2017, Friday,Saturday:Name of Coordinator: Mrs. Yogita P. Narwadka, Mr. Nilesh S. Deshmukh

- **Club Name: FOSS Club**
  - The department has organized a Workshop on Introduction to Scientific Computing with Python 21 March 2017, Tuesday:Name of Coordinator: Mrs.Smita Jorwekar, Mrs. Yogita Narwadkar

- **Club Name: Club दायित्व**
  - The department has organized a दायित्व- Being Social (Tree Nurturing) on Sunday, 10th January 2016: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse
  - The department has organized a दायित्व - Being Social" Patha Natya - Campaigning for 'Do Not Spit' at Pune Station on 11/9/2016,Monday: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse
  - The department has organized a Wall Painting at Platform No.6 for 'Spit Free India' at Pune Station on Sunday, 23/10/2016: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse
  - The department has organized a दायित्व - Being Social" 'Share your moments'on Monday, 14/11/2016: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse
  - The department has organized a MBA Students Eye Check up on 08/04/2017, Saturday: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse
  - The department has organized a Traffic Awareness through Traffic Forum Quiz on 22/4/17, Saturday: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse

- **Club Name: Metamorph**
  - The department has organized a Bumble Bee Workshop on Wednesday, 29th July 2015: Name of Coordinator: Prof. Pallavi N. Shintre
  - The department has organized a इ तिहो ti- MBA-NEWS BULLETIN on Every week,: Name of Coordinator: Prof. Pallavi N. Shintre
  - The department has organized a "War of Words" on Friday, 23rd August 2016: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse
  - The department has organized a My Friend Ganesha- "The Management Leader" Friday, 24th September 2016: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse
  - The department has organized a Essay Competition for MBA I Students on 10/1/2017, Tuesday: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse

- The department has organized a Seminar on Emotional Intelligence on 17/1/2017, Tuesday: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse
- The department has organized a R and Excel Workshop on 31/01/2017, 7/3/2017 and 17/04/2017: Name of Coordinator: Prof. Pallavi N. Shintre and Prof. Shubhangi Vanarse

- **Club Name: Book Geek club's**
  - The department has organized A student activity regarding general Aptitude on 15th February 2017, Wednesday:Name of Coordinator: Ms. Milana Malvadkar.
  - The department has organized a Technical Presentation on 10th Feburary,2017 Friday:Name of Coordinator: Mrs.Smita Jorwekar, Mrs. Yogita Narwadkar

- **Club Name: Reading Club**
  - The department has organized A READING CLUB ACTIVITY on Every Friday 3.30 pm to 4.30 pm:Name of Coordinator: Prof. Rama S. Bansode

- **Club Name: Perana**
  - The department has organized a Chhatrapati Shivaji Maharaj Jayanti on Wednesday, 08th March 2017:Name of Coordinator: Prof. K. R. Kapadani
  - The department has organized a Savitribai Phule Jayanti on 3/1/2017:Name of Coordinator: Prof. K. R. Kapadani
  - The department has organized a Rajmata Jijau Jayanti on 12/1/2017:Name of Coordinator: Prof. K. R. Kapadani
  - The department has organized a Swami Vivekanand Jayanti on 14/01/2017:Name of Coordinator: Prof. K. R. Kapadani
  - The department has organized a Constitution Day on 26/11/2016:Name of Coordinator: Prof. K. R. Kapadani

g) ED CELL Activities:
- Vicharghan 2016 : An Event for life Skill Management
- Adopted village for development

Criterion – IV
Infrastructure and Learning Resources

4.1. Details of increase in infrastructure facilities:

Facilities		Existing	Newly created	Source of Fund	Total
Campus area	Land Area (in Acres)	10.47	-		10.47
	Build up (ft^2)	23512.00	-		23512.00
Class rooms		37	-		37
Laboratories		66	-		66
Seminar Halls		07	-		07
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.		12	-		12
Value of the equipment purchased during the year (Rs. in Lakhs)		5118146.31	-		5118146.31
Others		-	-		-

4.2. **Computerization of administration and library**
- Use of Management Information System (MIS) software for Admission.
- Implemented Biometric attendance system for staff.
- Used Financial accounting software.
- Deployed a library management system software SLIM 21 to handle basic housekeeping functions of library such as cataloguing, On-line Public Access Catalogue (OPAC) and circulation.
- Implemented barcode system for quick and error free entry of books
- Installed Video surveillance and security cameras in the library to protect large areas of space and allow librarians and staff to immediately check in on concerns.

4.3. Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	50372	2,75,37,427	6300	9,48,448	56672	2,84,85,875.00
Reference Books	6376	50,55,886	270	5,89,376	6646	56,45,262
e-Books	1670	--	DELNET (World E-Books Library)	95000	-	96,670
Journals	134	3,39,530	134	3,65,578	134	3,65,578
e-Journals	700	-		700	700	-
Digital Database	1.IEEE ASPP+POP 2. Science Direct 3. J-Gate 4. IEEE (Signal Processing) 5. IEEE(Communications)	12.22,271	1.IEEE ASPP+POP 2. Science Direct 3. J-Gate 4. EBSCO 5. IEEE (Signal Processing) 6. IEEE(Communications)	13,61,167		13,61,167
CD & Video	1.CD-1871 2.Collection of NPTEL Video Lectures	1 TB Hard Disk	1.CD-2027 2.Collection of NPTEL Video Lectures	1 TB Hard Disk		
Others (specify)	Memberships: 1. British	59,596	Memberships: 1.Nation	83,957		83,957

	Library 2.Jayakar Library 3.DELNET 4. ACM 5.CSI		al Digital Library of India 2.Swayam 3. British Library 4.Jayakar Library 5.DELNET 6.ACM 7.CSI				

4.4. Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	1145	32	70 MBPS leased line	01	1	25	1060	60
Added	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total	1145	32	70MBPS	01	01	25	1060	60

4.5. Computer, Internet access, training to teachers and students and any other programme for technology up-gradation (Networking, e-Governance etc.)

- Total No. of Computers available: 1145 computers + 21 Servers
- Internet details : 70 MBPS leased line
- Life skill management lecture series was conducted to create awareness among the students and staff regarding various skills required for managing the professional and personal life.
- Skill development programs are arranged in collaboration with IBM, Spoken Tutorials and NPTEL
- Antivirus Education Session for faculty and Technical Assistants by MacAfee Technologies

4.6. **Amount spent on maintenance in lakhs :**

    i) ICT   46

    ii) Campus Infrastructure and facilities   559.88

    iii) Equipments   31.69

    iv) Others   Nil

        Total: **637.59**

Criterion – V
Student Support and Progression

5.1. Contribution of IQAC in enhancing awareness about Student Support Services

- Established Single Window service approach to issue different certificates like bonafide, no objection certificates, leaving certificates, transcripts for the convenience of students.
- Use of SMS, e-mails, group mails, and social media software to communicate with students and parents about attendance, extra lectures, holidays, examination schedules etc.
- Implemented Earn and Learn scheme for needy students who are selected after interviewing the applicants.
- Fee instalment facility provided to deserving candidates to prevent drop out.
- Health centre facility for students.
- Arranged various awareness programs for students by Grievance Redressal Committee, Anti-Ragging Committee and squad.
- Organized Skill and Personality Development programs for students.
- The students can get certification through NPTEL and Spoken Tutorial. NPTEL Lecture Videos are made available to students from library. Central library has organized NPTEL Video Conference for selected courses
- Conducted various gender Sensitization programs for students.
- Arranged various industrial visits for students and staff to enhance practical knowledge.
- Carrier guidance and motivation lectures for competitive exams

5.2. Efforts made by the institution for tracking the progression

The Institute facilitate student progression to higher level of education and employment through different activities

- Special efforts are taken for enhancing communication skills of the students.
- Facilities in the library help our student to get prepare for higher education as well as for competitive examinations
- There are special sessions arranged by the institute for the students to prepare them for different aptitude tests
- There are lectures arranged to help the students to guide them through GRE/ GATE/TOFEL.
- All the faculty members provide necessary help and guidance to the students opting for higher education in India as well as overseas. They are helped by writing appropriate recommendation letter and are also provided assistance with statement of purpose.
- The Institute has set up Training and Placement Cell which extends its help to seek employment for the students and involved in arranging campus interviews with various companies, training of students for aptitude and soft skills
- Training and Placement cell also prepares the students for the interviews by organizing various Seminars by eminent people, group discussions, and aptitude tests are arranged.
- Individual faculties also provide assistance regarding placement activity.
- Special mentoring is provided for weak students not only to help them in academics but to provide guidance for career development, help them tackle personal and social problems and to guide them for their overall development

5.3. (a) **Total Number of students**

UG	PG	Ph. D.	Others
2774	427	21	

(b) **No. of students outside the state**

21

(c) **No. of international student**

NA

Men*

No	%
1993	62.44

Women*

No	%
1206	37.47

Last Year 2016-17*						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1745	335	56	745	0	2881	Admission process is In-process					

* excluding Ph. D

Dropout % -

5.4. Details of student support mechanism for coaching for competitive examinations (If any)

- Students are encouraged to appear for competitive exams like GATE /CAT /GRE /TOFEL /GMAT/ Central/State services, Defence, Civil Services.
- Special efforts are taken for enhancing communication skills of the students.
- The institute library is well equipped with a variety of books, magazines, news papers and e-resources which helps students to appear and prepare for different competitive examinations.
- Library has reading room facility for extended hours and is open on all holidays as well during examination period
- The internet facility is also available for student to download the required material, research papers, study material etc. The faculties of the institute provide guidance to the students.
- Guest Lectures are arranged by each department to encourage and help students for preparation of these examinations

No. of students beneficiaries

794

5.5. No. of students qualified in these examinations

NET [Nil]   SET/SLET [Nil]   GATE [67]   CAT [07]

IAS/IPS etc [Nil]   State PSC [06]   UPSC [05]   Others [46]

5.6. Details of student counselling and career guidance Counselling

The Institute has its own independent system for student support and mentoring. Student support and mentoring system starts from the day of admission to final year results.

- Public lecture on carrier guidance & admission process for FE delivered by HOD Prof. S.Y.Bhosale.
- Guest lecture on Foreign Studies Prof. Vimal Sir IMS, pune

- Higher Education Opportunities in Montana State University, USA
- Guest lecture on "Mentorship for Success Abroad"
- Seminar on Career Guidance and Entrepreneurship
- Guest lecture on Career Guidelines and Trends of Heavy Vehicle.
- Different   technical workshops were also arranged to get technical knowhow of microcontroller
- Counselling at personal and professional level is done by Mentor; the scheme of Mentor Mentee has been implemented with an objective for overall development and counselling of students. This helps the faculty to monitor the progress of the students.
- Students are guided on various aspects such as,
  - From spoon-feeding to self-learning
  - Focus on personality development
  - To be clear on career goal
  - Wide options through Engineering
  - Higher studies
  - Management studies
  - Internships and workshops
  - Placement aspects
  - Preparing for campus placement
- Session on Futuristic Approaches for E&TC Graduates by Alumni Mr. Ashish Wani, Volar System
- Campus placement guidelines by Alumnus, Charishma Idamakanti, Symbiosis Institute of Management, Pune & Indrajeet Javeri, L&T InfoTech, Pune
- Session on Robo on Wheels by Mr. Tanmoy Sinha, Cloud Engineering, Pune.
- Seminar on Industrial Process Automation by Mr. Nikhil Deshpande, Emerson Pune
- Seminar on Digital Signal Processor and Multi rate Processing by Mr. Ganesh Totla, Tata Communication Pune.

No. of students benefitted | 2509

5.7. Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
63	715	124	98

5.8. Details of gender sensitization programmes
- Gender sensitization is a major issue in Indian Society Institute has a Gender Sensitization Committee against Sexual Harassment, under which different special workshops, lectures on this sensitive issue of Gender Discrimination are organized.
- Session on "Arogya Vyakhanmala: Physical Hygiene and Self-Defence" was organized for girls students.
- Women Empowerment through awareness of Safety organised in association with PMA (Pune Management Association)
- BMI Check up of Girl students
- W.O.W. "Women of Wisdom" (Women's Day Celebration) and self-protection training

5.9. Students Activities

5.9.1. No. of students participated in Sports, Games and other events

Sports : State/ University level [177] National level [29] International level [01]

No. of students participated in cultural events

Cultural: State/ University level [79] National level [0] International level [01]

5.9.2. No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level [15] National level [12] International level [Nil]

Cultural: State/ University level [07] National level [00] International level [Nil]

5.10. Scholarships and Financial Support

	Number of students	Amount(Rs.)
Financial support from institution	**Nil**	
Financial support from government	678	3,77,59,847
Financial support from other sources	15	77,000
Number of students who received International/ National recognitions	**Nil**	

5.11. Student organised / initiatives

Fairs   : State/ University level [02] National level [Nil] International level [Nil]

Exhibition: State/ University level [02] National level [Nil] International level [Nil]

No. of social initiatives undertaken by the students [28]

5.12. Major grievances of students (if any) redressed: Nil

Criterion – VI
Governance, Leadership and Management

6.1. State the Vision and Mission of the institution

Vision

'To create a collaborative academic environment to foster professional excellence and ethical values'

Mission

- To develop outstanding engineers & professionals with high ethical standards capable of creating and managing global enterprises.
- To foster innovation and research by providing a stimulating learning environment.
- To ensure equitable development of students of all ability levels and backgrounds.
- To be responsive to changes in technology, socio-economic levels and environmental conditions.
- To foster and maintain mutually beneficial partnerships with alumni and industry.

6.2. Does the Institution has a management Information System

- Yes, Management Information System (MIS) is used for academic and administrative activities.

6.3. Quality improvement strategies adopted by the institution for each of the following:

6.3.1. Curriculum Development
- Allocation of Subjects as per specialization of teachers.
- Lectures by Industry Experts and prominent academicians are arranged.
- Focus is on interaction with alumni, corporate personnel, guest faculties to get recent updates.

6.3.2. Teaching and Learning
- Preparation of Teaching plans, ARB, Lab manuals by faculties
- Faculty Development Programs (FDP) Conducted / Attended by faculties
- Organized Quality Improvement Programs like seminars, workshops for faculties and students
- Arranged extra lectures for academically weak students
- Executed Academic planning and monitoring activity
- Academic record booklet maintained by faculties

6.3.3. Examination and Evaluation
- Appointed University College Examination Officer (CEO) to ensure smooth conduct of exams.
- Continuous Assessment for theory and practical subjects.
- Mock practical and online exams are conducted for practice

6.3.4. Research and Development
- Submitted various research proposals to different funding agencies
- Received fund sanction for minor research projects by BCUD, SPPU under RPS.
- Appointed Academic Research Coordinator (ARC) for smooth conduct of research activities.
- Financial support has been given to faculties to present/ publish research papers.
- Support to faculties for pursuing Ph.D. program
- Technical inter-collegiate competitions have been conducted e.g. circuit design, black coding, Smart Villa, Robo race etc.

- Encouraged staff members and students to publish and/or present research papers.
- Organized and attended seminars and workshops on various topics.
- In-house (mini) projects developed by students under faculty guidance.
- All departments organized project exhibition and competition in the Institute in association with professional bodies like IEEE, IEI, CSI, IETE, SAE, ASME etc.
- Students participated in the national /international competitions like BAJA, SUPRA, ROBOCON, Go-carting, Effi-cycle events where the students are supposed to design and fabricate various types of vehicles.
- Students from UG & PG participated in the university level project competitions like 'AVISHKAR' organized by SPPU.

6.3.5. Library, ICT and physical infrastructure / instrumentation
- Laboratories and Library are regularly updated with new Equipments, books and Journals.
- Classrooms, Laboratories, Library and administrative activities are fully equipped for ICT use.
- Installed CC TV surveillance services in campus including Library and examination control room.
- Adequate safety and fire-fighting equipment installed.
- Installed Biometric attendance system for staff.

6.3.6. Human Resource Management
- Approval to full time faculty after selection from UGC/University panel..
- Faculties are encouraged and provided sponsorship to participate in conferences, seminars, workshops funded by AICTE, University and other agencies at local, state, national, international levels, organized both within the Institute and by others.
- Feedback is taken from students regarding subject taught by faculties.
- Each faculty fills self-appraisal form by giving details of teaching, result of subjects taught, department level and college level activities coordinated and participated, consultancy, research etc. HODs also appraise the faculty, after which the Principal reviews it.

6.3.7. Faculty and Staff recruitment
- Transparent recruitment procedure.
- All posts of teaching staff are widely advertised with details of required qualifications as per AICTE and Government norms after verification of Roster from University.
- The advertisement is published in local, regional and national newspaper.
- The advertisement is also published on the Institute website along with application form.
- Vacancies arising in the middle of the term are filled by Management by conducting interviews.
- Demo lecture are arranged for candidates selected in the first round.
- If the demo lecture is satisfactory, the candidate is selected for the said vacant post.

6.3.8. Industry Interaction / Collaboration
- Regular lectures of Industry Experts arranged for the students.
- Industry Visits arranged by every department.
- Sponsorships, Judges and experts for different events in Technical Event M-Pulse.
- Alumni interaction
- The sponsorship received for their last year Projects by Engineering Students.
- Internships to TE students
- Mandatory industry experience of MCA students in their last semester.
- Industry sponsored Summer Internship Projects of MBA students.

6.3.9. Admission of Students
*   As Per the guidelines given by AICTE, DTE Maharashtra and SPPU.

6.4.   Welfare schemes for

Teaching Staff	- Concession for attending seminars /workshops / conferences. - Funding is given for publishing or presenting research papers. - Accident Insurance. - Discount on pathology tests by Golvilkar Laboratory. - Fee concession for Staff and staff ward.
Non teaching Staff	- Accident Insurance. - Discount on pathology tests by Golvilkar Laboratory. - Fee concession for staff and staff ward.
Students	- Accident Insurance. - Fee concession or instalment facility for needy students. - Extended library hours & borrowing facility - Book bank scheme - Earn and Learn scheme - Life skills management programs

6.5.   Total corpus fund generated

Rs. 12500000/-

6.6.   Whether annual financial audit has been done   Yes √   No ☐

6.7.   Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Nil	Yes	Academic Planning Committee along with Academic and Administrative Audit Committee
Administrative	No	Nil	Yes	Academic and Administrative Audit Committee

6.8.   Does the University/ Autonomous College declares results within 30 days?

For UG Programmes   Yes √   No ☐

For PG Programmes   Yes   √   No ☐

6.9.   What efforts are made by the University/ Autonomous College for Examination Reforms?
*   As per the guidelines given by the SPPU, College Examiner Officer (CEO) has been appointed.
*   Examination committee is formed by the Institute for smooth conduction of Mid-sem examination, online examination and university examination.
*   Internal squad is appointed for Vigilance in examination.
*   On-line submission of examination forms, examination fees, applications for photocopy of answer sheets, revaluation form etc.

6.10. What efforts are made by the University to promote autonomy in the affiliated / constituent colleges?

- Not applicable

6.11. Activities and support from the Alumni Association

- Alumni help in training and placement activities.
- Alumni share their knowledge by coming as visiting faculty, judges of various activities, guest lecturers for seminars, workshops and etc.
- Alumni who are entrepreneurs are regularly interacting with students to guide and motivate them.
- Alumni also give back to the Institute in the form of their technical skills. The Student MIS which is used in the Institute is developed by our alumnus with inputs from principal and staff.

6.12. Activities and support from the Parent – Teacher Association

- Parent – teacher meetings have been arranged periodically at department level as well as centrally. Student attendance and progress has been discussed in these meetings.
- Parents can meet Principal, HODs, GFM and teachers with prior appointment.
- Few parents are also invited as industry experts in the Institute.
- Parents are nominated on various Institute committees

6.13. Development programmes for support staff

- Support staff has been deputed for various training programs organized by university and college.
- Workshops were arranged on the topics like maintaining physical and mental health, diet, work ethics and team building for achieving goals

6.14. Initiatives taken by the institution to make the campus eco-friendly

- conducted Green Audit as an initiative towards environmental awareness.
- A 2kW Solar photo voltaic for UPS charging is available in seminar hall.
- PUC camp by students is arranged on regular basis for checking pollution emissions.
- The Institute has taken initiative to use LED street lights, CFL common lighting inside the institute campus for energy conservation.
- The Institute has a biogas plant in which about 50 kgs of wet garbage is processed.
- The resultant slurry is processed in vermiculture plant.
- This practice has enabled us to generate and use biogas in College canteen resulting in saving of about three LPG cylinders per month.
- Trees are planted in the Institute campus.
- The Institute has initiated steps for hazardous waste management and e-waste management.

Criterion – VII
Innovations and Best Practices

7.1. **Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.**

Innovations

- **Vicharghan 2016 : An Event for life Skill Management**
  - A lecture series on life skill management was organized from 22nd to 24th August 2016 in association with, Vidyarthi Kalyan Mandal – Savitribai Phule Pune University and Entrepreneurship Development Cell of the Institute. Renowned speakers were invited to deliver their seminars on the personality development and life skill management for students.
- **Interview Booklet for students**
  - helps students for their placements. It covers all the sample interview questions, behavioral assessment, situational assessment and it also contains Interview skills tips sheet with how to answer those questions.
- **NVIDIA Education Center in Computer Department**
  - It helps students to get practical, hands-on experience. It leads to enhance research resulting in the development of new tools in various domains, improved industry linkage through collaborative research capabilities in our students developed through live project and practical case studies.
- **Articles in e-magazine "ELECTRONICS HERALD"**
  - It helps the students to assemble and organize all the information related to departmental activities and progress at one place and to disseminate this information to all the stake holders. Theme based technical articles and interviews with the best outgoing student and entrepreneur are also an integral part of the magazine. After a number of proof readings the e-copy of the magazine is prepared and published on the occasion of Engineers Day.
- **Quick Heal Initiative- Cyber Crime and Laws**
  - To understand the essentials of Cyber security and cyber laws and to provide an understanding of principal concepts, major issues, technologies, and basic approaches in cyber-crime
- **Skill Development Courses under IT Knowledge Park**
  - It covers various technical topics which can be useful to the students to update their technical skills. Courses like Energy Audit, Solar energy etc are covered. Skilled personnel from industry are called to conduct courses and practical demonstrations are also covered.
- **Technical Calendar prepared by Students for Technical Events**
  - The students have developed a Technical Calendar at the Department of Electrical Engineering for display of all technical events that take place in the entire year.
- **Articles in E-Newsletter "E-BUZZ"**
  - It gives summary about the activities conducted in the semester and also gives students an insight into latest technical inventions. 'To know about our Author' is a concept which came into existence in newsletter where students can read and get information of the author whose books they are referring in their curriculum
- **Connected Classrooms (Department of Information &Technology):-where Teaching meets Technology**
  - Connected Classrooms provides teachers with features such as presentations on student devices, MCQ test and result analysis that enable them to utilize the full potential of the technology in their own hands, making the learning process fun and beneficial for the students.
- **Moodle Implementation**
  - Modern College of Engineering is using Moodle system for education under ICT Facility. Moodle is an open source web application used to create interactive online learning sites. It is a program that allows the classroom to extend onto the web.

- **Social Awareness amongst Students through Street Plays, Vrukshabandhan etc.**
  - Rakshabandhan (The Bond of protection) a traditional Indian festival, observes the everlasting bond of love and affection between brothers and sisters. The staff and students decided to tie rakhi to the trees in the campus on the occasion to spread the message of tree protection and conservation.
- **One day issuing of Books: Night Reading Copy**
  - Extra Night Reading copy can be issued to the students. Students can issue one book on their library card instead of borrower card and returned it on the next day.
- **Competitive Exam Section**
  - Library has established Competitive Exam Section

7.2. Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- AICTE& ISTE Approved One week National Level FDP titled ' Strategies and Practical Approaches of Outcome Based Education and NBA Process organized in Computer Engineering Department from 12th June to 17th June 2017.
- The institute has received "AA" grade for NPTEL courses. NPTEL video lectures (1TB) are available on library server which can be viewed from anywhere in the campus
- Some UG and PG level projects are sponsored by industries and research bodies.
- Views of experts from industries, research bodies and academia regarding curriculum needs, given in informal discussion, are considered while planning for any student focused activities.
- The department of E&TC have Task Based Training (TBT)-2016 & TBT-Challenge-2016 in collaboration with IIT-Mumbai titled E-Yantra. Students of different engineering branches worked together for this activity. The funding received for the collaborative project is Rs. 81144 /-
- Industrial trainings/Internships are completed by students in industries.
- SOFCON training program on industrial automation for the students of Electronics and Telecommunication Engineering & Electrical Engineering was arranged.
- Hands on training on PSIM software was conducted for the students of Electrical Engineering students.
- Use of open source software "Moodle" for conducting tests, quiz, assignments; is introduced in some of the departments.
- Various programs such as Swachchha Bharat Abhiyan, Donation of Money for supporting a needy Person, and pledge for traffic rules and regulations, Tree Plantation Program, blood donation camps, visits to orphanage and old-age homes are regularly arranged and different Non-Tenchnical Club activities are conducted at each department, to make the students aware about their responsibilities towards society and community.
- In Academic year 2016-17 Four BCUD- SPPUQIP funding is sanctioned for organizing seminar/workshop/conference of Rs. 6.6 Lacs
- Patent filed on 11.07.2016, publication on 26.08.2016 by Research scholar Laxman Shivaji Godase
- A Smart meter is developed to measure harmonic power in Distribution Sytem to automate the present manual system of MSEDCL by Dr. Mrs. Haripriya Kulkarni, Electrical Engineering department
- External Green Audit is conducted in the Institute.
- Construction of additional parking shed for students.
- Construction of landscape garden and seating arrangement for students.
- Wi-fi enabled Campus.

7.3. Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

Title of the Practice:
1. Value added certification courses (Spoken tutorial, NPTEL, IBM)
2. Club Activities /Student Activities

Goal:
1. **Value added certification courses (Spoken tutorial, NPTEL, IBM)**
   - To encourage the students for online courses to enhance their technical skills.
2. **Club Activities /Student Activities**
   - To provide opportunities in order to develop and enhance various skill sets such as, leadership, communication, team work, interpersonal relationship etc.
   - To inculcate a sense of belongingness & ownership through technical and social activities.

The Context:
1. **Value added certification courses (Spoken tutorial, NPTEL, IBM)**
   - We have a good practice to explore about the subjects/courses which are being taught in classes and to enhance some additional co-curricular skills, e.g. Spoken tutorial, NPTEL, IBM etc.
2. **Club Activities /Student Activities**
   - The Student associations are formed in each department for providing a platform for such activities. Club is a group of likeminded students who come together to perform various activities related to their common interest, for the overall development of students, along with academics participation of the students in various activities play a vital role.

The Practice:
1. **Value added certification courses (Spoken tutorial, NPTEL, IBM)**
   - Students are informed in advance about various online certification courses related to their current subjects as well as some skill based courses e.g. software programming, Hardware networking, language competency, industrial electronics, business management etc. For every course one mentor is allotted by the department who coordinates and keeps records about the particular course. Students are guided time to time, regarding the access of resources and effective study by the respective mentors. Every course is followed by a test. After successful completion of course and test, the qualified students are awarded with the certificates.

2. **Club Activities /Student Activities**
   - Departmental head conducts meeting with the staff at the beginning of academic year and conveys his idea of continuing student association activities in the department.
   - Notice regarding the same is displayed on the notice board.
   - Interested students are interviewed and student's committee is formed for every academic year.
   - Few selected students are the members of the respective association.
   - Activities planner is finalized at beginning of the academic year after discussion among student body, staff in-charge of association, HOD.
   - Activities are performed in which students are encouraged to take part at different levels and to take responsibility as per their role.
   - Activity report is prepared and submitted to departmental head.

Evidence the success:
1. **Value added certification courses (Spoken tutorial, NPTEL, IBM)**
   - Since the start of the program, there is great response for such courses. In spoken tutorial 1511, NPTEL 640 Students and 19 Faculties, IBM 197 Students have got certified for online courses till now.
   - The institute is rated **AA** and is one of the top 100 NPTEL local chapters.
2. **Club Activities /Student Activities**
   - More than 20 clubs are formed in various categories such as technical clubs like Pegasus, Robocon, APP, FOSS etc and social clubs like environment club,

- seeds of hope, Prerna club etc. Under these clubs various 50 activities are conducted.
- Students get benefitted by their participation in various activities. They develop their communication, organization, public speaking & teamwork skills.
- Students got opportunity to perform and participate in the event which developed and enhanced the various skills sets in the student.

Problems Encountered:

1. **Value added certification courses (Spoken tutorial, NPTEL, IBM etc.)**
   - Initially it was difficult to motivate and persuade the students about the importance and advantages of such kind of courses along with their busy academic schedule. The mentor convinces them to enroll for above mentioned courses.
2. **Club Activities /Student Activities**
   - It is challenging to arrange for resource person and managing their schedule to match with academic activities.
   - Since a large no. of activities are planned and student can fail to notice any other activity. It becomes very difficult to re-conduct the activity again.
   - Seminar Hall/Laboratories/Class rooms should available for expert lecture.

7.4. Contribution to environmental awareness / protection
   - ➢ The Institute makes an effort to contribute in environmental protection for campus eco-friendliness.
   - ➢ The Institute has conducted **'Green Audit'**
   - **Energy conservation**
       - Illumination audit by student of Electrical Department
       - The Institute has a biogas plant in which about 50 kgs. of wet garbage is processed which is used in the College canteen
       - The resultant slurry is processed in vermiculture plant.
       - Rain water harvesting is in process

   - **Use of renewable energy**
       - 5 kW Solar System installed at roof top.
       - Renewable Energy lab for promoting usage of Renewable energy
       - The Institute has set up a waste water plant of capacity 20,000 liters of water per day. The plant is operational and this waste water is used in garden and washroom flush.

   - **Efforts for Carbon neutrality**
       - In energy audit carbon dioxide emission has been calculated.
       - Regularly checking for pollution control by arranging PUC camp inside the institute campus
       - Organizes 'Vehicle free day'
       - The institute restricts the usage of plastic bags in the campus.
       - The NSS unit of the Institute has taken up programs like clean Mula and Mutha rivers in the city.

   - **Plantation**
       - Plantation of varied variety of trees to increase the green cover.
       - There are around 300 trees which are classified in the category of large trees.
       - Plants having medicinal values are also a part o f the institute campus.
       - There are many flowering trees as well as shadow plants also.
       - Students are also engaged in the tree plantation and cleanliness related activities.
       - The institute has also conducted green audit as an initiative towards environmental awareness.

- **Hazardous waste management**
  - The Institute authority has initiated Awareness programme on waste management.
  - The Institute has tie up with the Pune Municipal Corporation for the disposal of wastage of different types. All Hazardous waste is separated inside the campus which is collected by Pune Municipal Corporation.
  - Creating Awareness about plastic free zone

- **e-waste management**
  - The Institute authority has initiated Awareness programme on e-waste management.
  - The non-working computer spare parts and other non-working equipments are safely disposed outside through the Puna e-waste Agency.

7.5. Whether environmental audit was conducted?   Yes | √ | No | |

7.6. Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strength
- NAAC accredited.
- Regularly conducted student centric programs through different student associations and/or the Institute.
- Awarded as "Best College" by SPPU under the category Professional College in Urban Area.
- The Institute is centrally located.
- The infrastructure of the Institute is very apt for quality teaching learning process.
- Laboratories are well equipped with state of the art instruments, trainers, software's and computing facilities.
- College motivates faculties for higher educations.
- Topics beyond the syllabus are covered by the faculties and Industry experts.
- The Management always supports the development of new ideas to encourage innovation and organizational development and support financially for quality of education.
- Faculties take additional remedial classes for learning of academically weak students.
- College has an active Entrepreneurship Development Cell, which encourages students who desire to grow as entrepreneur.

Weakness
- Funds constraints being a Self financed institution.
- Limited international linkages or collaborations.
- Faculties have limited industrial experience and consultancy exposure.

Opportunity
- Being centrally located, Industry experts are available for enhancement of skills, updating and upgrading of knowledge of the faculties and students.
- Undertaking industry based and industry related projects by UG and PG students to improve the quality of projects, thus increasing opportunity for placements.
- Pune being educational and IT/ Engineering industry hub, therefore, more opportunities for industry interaction and job opportunities to students.
- Scope for interdisciplinary research.

Challenges
- The competition has increased because of many institutes coming up.

- Students being widely from rural background, hence lack in communication skills. They require great effort to develop communication skills and personality development which is a challenge.
- Changing technology and industrial requirements has developed a need for enhancing employability skills in students for which extra efforts are needed.

Plans of institution for next year
- Apply for NBA accreditation
- Strengthen training during vacation, vocational training, Industry based projects and industrial visits
- persistent and boost up activities in collaboration with Professional Societies
- Arrange more activities in collaboration with Professional Societies
- Create avenues for patent filing by Staff / Students
- enhance training and placement activities with the help of alumni
- Enhance R&D and Consultancy activities with collaborative Research projects
- Organize Short Term Training Programs(STTP) for faculty development
- Skill development trainings for teaching and non teaching staff

Name Prof. Dr. (Ms.) Maithili Arjunwadkar   *Name Prof.Dr.(Mrs.) Kalyani Joshi*

Signature of the Coordinator, IQAC   *Signature of the Chairperson, IQAC*

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