

The Annual Quality Assurance Report (AQAR) of the IQAC

Academic Year- July 1, 2014 to June 30, 2015

Part – A

I. 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/](mailto:pesmcoe@gmail.com)

Contact Nos.

020-25533638/648

Name of the Head of the Institution

Prof. Dr.(Mrs.) K.R. Joshi

Tel. No. with STD Code:

020-25533638

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): 10410

1.4. Website address:

<http://www.moderncoe.edu.in>

Web-link of the AQAR:

<http://www.moderncoe.edu.in/IQAC/AQAR201415.doc>

1.5. Accreditation Details

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

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

1.7. AQAR for the year (for example 2010-11) 2014-15

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

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

0

2.4. No. of Management representatives

1

2.5. No. of Alumni

2

2.6. No. of any other stakeholder and
community representatives

0

2.7. No. of Employers/ Industrialists

1

2.8. No. of other External Experts

1

2.9. Total No. of members

17

2.10. No. of IQAC meetings held

5

2.11. No. of meetings with various stakeholders: No. Faculty

Non-Teaching Staff Students Alumni Others

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

If yes, mention the amount

2.13. Seminars and Conferences (only quality related)

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

Total Nos. International National State Institution Level

(ii) Themes

- To improve Teaching Learning Process
- Skill building
- Soft skill and personality Development
- New Technology
- Yoga and Mediation

2.14. Significant Activities and contributions made by IQAC

- The IQAC contributes to evolve the mechanism , procedure and suggestions are given to ensure the following activities:
 - Continuous evaluation and enhancement of academic planning and monitoring activities.
 - Different club activities which are started in the Institute titled reading club, open source software club, art and photography club etc.
 - Implementation of ICT in academic and administrative activities.
 - Life skill management lecture series which are conducted to create awareness among the students and staff regarding various skills required for managing the professional and personal life.
 - Proposals are submitted for quality improvement schemes to BCUD, SPPU. Programs are conducted successfully post sanctioning.

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
To start digitization of students' documents, build up data, related to administration and academic activities through Data centre.	• Yes, we scanned and stored students' documents like mark-lists, cast certificates, cast validity, non-creamy layer certificate, income certificate, aadhar card etc in the form of pdf for the future reference. • MIS software is developed by our alumni along with the staff is deployed and used to store the students administrative and academics data.
Centralize computer resources for optimum utilization of Computer Labs	• Yes, the Institute made an effort for optimum utilization of resources in computer labs.
To arrange environmental awareness and green audit program	• The Institute arranges activities like PUC camp, tree plantation, river cleaning, traffic awareness, vermin-culture plant, Biogas plant. Contracts are made with different agencies for hazardous and e-waste. • Green Audit program is in-process.
To conduct Life skills management programs for students	• Life skill management lecture series are conducted to create awareness among the students and staff regarding various skills required for managing the professional and personal life. • Conducted certificate courses in the collaboration with IBM
To conduct International Seminar/conference/workshop	• A project competition on Signal and Image Processing was organized in July, 2015 by IEEE Signal Processing Society Chapter, Pune Section. • Sanction and sponsorship received from SPPU – BCUD for International Conference which will be held in Jan 2016. • Sanction and sponsorship received from SPPU – BCUD for National Workshop which will be held in Jan 2016
Organize different activities through Entrepreneur Development Cell	• Various entrepreneurship orientation programs are organized • The Institute Organized seminar on World Intellectual Property Day on the topic Intellectual Property Rights. • This seminar has been arranged in association with Great Mission Group Consultancy (GMGC). Mr. Ganesh Hingmire (National IP award- IPO Special Mention Award Winner-2015) was the speaker for

	this seminar. • It was an effort to promote and protect Intellectual Property Rights including Patent, TradeMark, Copyright, Industrial Design and Geographical Indication. • Besides this the career opportunities for Science and Engineering students as patent Examiner (Class I officer) and Patent Agent were discussed.
Submit proposals to different funding agencies for funds for seminars and development	• Faculties submitted proposals to BCUD , SPPU for their research • Funding sanctioned from IEEE communication society chapter Bombay and IEEE Signal Processing Society Chapter, Pune for seminar and project competition. • Funding from different Professional chapters like IEI, CSI, ASME, ARAI for various competitions.

2.16. Whether the AQAR was placed in statutory body

Yes

☒

No

☐

Management

☒

Syndicate

☐

Any other body

☐

Provide the details of the action taken

- The progress of the college was found to be satisfactory.
- Advice given to improve the research and other activities for staff and students for the forthcoming academic year.

Part – B

Criterion – I

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	Nil
UG	5	Nil	5	Nil
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	0
Interdisciplinary	Nil	Nil	Nil	Nil
Innovative	Nil		Nil	Nil

1.2. (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

- CBCS for all P.G. Courses
- M.E. , B.E. Electrical Engineering and MCA courses have an open elective

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	11
Trimester	0
Annual	0

1.3. Feedback from stakeholders* (On all aspects)

Alumni ☒ Parents ☒ Employers ☐ Students ☒

Mode of feedback : Online ☐ Manual ☒ Co-operating schools (for PEI) ☐

**Please provide an analysis of the feedback in the Annexure*

1.4. Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- The syllabus revision was done by Savitribai Phule Pune University for the following courses:

- Third Year Engineering.

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

Nil

Criterion – II

2. Teaching, Learning and Evaluation

2.1. Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
119	96	15	08	0
*On Roll (including adhoc) = 222				

2.2. No. of permanent faculty with Ph.D.

12

*including Adhoc- 14

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
198	0	15	33	09	16	-	-	222	0

2.4. No. of Guest and Visiting faculty and Temporary faculty

51

17

Nil

2.5. Faculty participation in conferences and symposia

No. of Faculty	International level	National level	State level
Attended	13	6	15
Presented papers	57	14	4
Resource Persons	-	-	-

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

- Academic Booklet record is maintained subject/semester wise for monitoring student attendance and performance.
- Life management skills lecture series is conducted to motivate staff and students.
- Various clubs are formed for self learning and motivating
- Usage of ICT is promoted
- Online tutorials are introduced
- Seminars, workshops, Webinars are arranged in departments.
- Industrial visits are organized
- Lectures of Industry experts are organized
- Use of SMS, e-mails, group mails used for faster communication is encouraged

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

158

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.
- Mid-term tests, Class tests, MCQ tests, open book tests have been conducted in respective departments.
- 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

Nil	30	12
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2.10. Average percentage of attendance of students

80

2.11. Course/Programme wise distribution of pass percentage

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
E&TC Engg	146	26.71	45.20	24.66	---	96.58
Computer Engg	66	15.15	48.48	24.24	---	87.88
Mechanical Engg	138	73.19	21.74	2.90	---	97.83
Electrical Engg.	130	47.70	39.23	7.69	---	94.62
IT. Engg.	108	19.44	48.15	24.07	---	91.67
MCA	134	38.80	32.09	19.40	---	90.30
MBA	109	1.83	48.62	24.77	---	75.23

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

The IQAC contributes to evolve the mechanism, procedure and suggestions for Teaching and learning process is as follows:

- Regular meetings of Academic Planning Committee, HODs, and GFM were conducted for follow-up about timely syllabus completion, student attendance, defaulters etc.
- Theory and Lab sessions are evaluated through continuous assessment
- Defaulter list of the students is monitored and discussion is held with their parents
- Evaluation through Mid-term test, class test, open book test, MCQ tests
- Learning of academically weak students is strengthened by conduction of retest and additional remedial classes.

2.13. Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	34
UGC – Faculty Improvement Programme	Nil
HRD programmes	146
Orientation programmes	158
Faculty exchange programme	Nil
Staff training conducted by the university	37
Staff training conducted by other institutions	44
Summer / Winter schools, Workshops, etc.	87
Others	48

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	34	-	07	-
Technical Staff	37	-	08	-

Criterion – III

3. Research, Consultancy and Extension

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

- Organized and attended seminars/workshops/conferences on various topics.
- Encouraged staff members and students to publish/present research papers.
- Submitted various research proposals to different funding agencies.
- Motivated students to develop In-house (mini) projects under faculty guidance.
- Provided E-resources to staff members and students.
- Supported students for participation in various competitions like BAJA, ROBOCON etc.
- Arranged various Industrial visits, guest lecturers from Industry experts.
- Supported Industrial training and sponsored projects.

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	1	4	5	-
Outlay in Rs. Lakhs	-	-	7.9	-

3.4. Details on research publications

	International	National	Others
Peer Review Journals	39	07	-
Non-Peer Review Journals	-	-	-
e-Journals	-	-	-
Conference proceedings	15	07	4

3.5. Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

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	Received
Major projects	Nil	Nil	Nil	Nil
Minor Projects	2014	BCUD	7.9 Lacs	7.9 Lacs
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)* \$ funding converted to INR	2014	IEEE Educational Activity Society	\$150	\$150
		IEEE WIE affinity group	\$ 350	\$ 150
		IEEE SPS chapter funding	35,000	35,000
Total	-	-		8.45Lacs*

3.7. No. of books published i) With ISBN No. Chapters in Edited Books
 ii) Without ISBN No.

3.8. No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
 DPE DBT Scheme/funds
3.9. For colleges Autonomy CPE DBT Star Scheme
 INSPIRE CE Any Other (specify)

3.10. Revenue generated through consultancy

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

Level	International	National	State	University	College
Number	Nil	01	02	04	89
Sponsoring agencies		BCUD SPPU	BCUD SPPU	SPPU	College Management

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

3.13. No. of collaborations International National Any other

3.14. No. of linkages created during this year

3.15. Total budget for research for current year in lakhs

From Funding agency From Management of University/College
 Total

3.16. No. of patents received this year

Type of Patent		Number
National	Applied	Nil
	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
2	Nil	Nil	Nil	2	Nil	Nil

3.18. No. of faculty from the Institution who are Ph. D. Guides and students registered under them**3.19. No. of Ph.D. awarded by faculty from the Institution****3.20. No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)**

JRF SRF Project Fellows Any other

3.21. No. of students Participated in NSS events:

University level State level
 National level International level

3.22. No. of students participated in NCC events:

University level State level
 National level International level

3.23. No. of Awards won in NSS:

University level State level
 National level International level

3.24. No. of Awards won in NCC:

University level	Nil	State level	Nil
National level	Nil	International level	Nil

3.25. No. of Extension activities organized

University forum	02	College forum	12		
NCC	Nil	NSS	8	Any other	18

3.26. Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility.**Institutional Level activities****a) NSS :**

- Arranged orientation Program for students.
- Participated in an inauguration of State level Youth Training Centre' and 'Youth Council.
- Cleaning of Mula and Mutha River.
- Participated in the 'Online Tarunai'- Communication of Pune Police with Youth.
- Police Mitra In coordination with Pune police.
- Celebrated N.S.S. Foundation Day.
- Celebrated National Youth Day.
- Arranged Special Winter Camp At-Mavadi (K.P.), Tal. Purndar.

b) Karmanya

- Publication of the college annual magazine 'Karmanya' – 'ANTARIKSHA' world of astronomy" is the theme for Karmanya.
- Interviews of renowned people in different fields like Ms. Ketaki Mategaonkar, Mr. Anil Waychal and Mr. Charudatta Afale
- 2 PUC Camps on 22nd July 2014 and 22nd Jan 2015 under the social activity week
- Blood Donation Camp on 20th Jan 2015.

c) Vidyarathi Kalyan Manch

- Organized program on "Swami Vivekanand Vishav Vijayi Vichar".
- Organized program on "Applications of Mathematics in Engineering Field".

d) "M-Pulse"

- 'M-Pulse' is the annual National level Techno-Management event of College.
- "Make in India" was the theme for M-Pulse.
- Nearly 50 technical events are organized during the fest.
- National level technical and non-technical workshops for which faculty and industrialists from leading organizations are invited as facilitators.

Department Level

- Nurturing Plants at Pashan Hill.
- Swachh Bharat Abhiyan.
- Monitory support to a needy person undergoing surgery.
- Pledge to follow traffic rules and regulations.
- Social Activity in Netaji PalkarVidyalaya.
- A lecture on career guidance for 10th and 12th students.

- Tree Plantation Program. “Each One... Plant One!!!”
- Yoga and Meditation.
- Medical Awareness.
- Joy of Giving.
- Street Play.
- A Way’ to stress free life.

Criterion – IV

4. Infrastructure and Learning Resources

4.1. Computerization of administration and library

- Used Management Information System (MIS) software for Admission.
- Implemented Biometric attendance system for staff.
- Used Financial accounting software.
- Deployed a library management system 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.

4.2. Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	40082	2,70,00,000	2642	5,93,500	42,724	272,93,500
Reference Books	2042	1,26,92,930	17	83,466.84	-	-
e-Books	100	-	50	-	150	-
Journals			142	3,67,825		3,52,905
e-Journals	J-gate Elsevier IEEE-ASPP DELNET	9,49,574	J-gate Elsevier IEEE-ASPP DELNET	12,10,771	-	12,10,771
Digital Database						
CD & Video	1400	-	173	-	1573	-
Others (specify)	Membership ACM ARAI Ashare ASME CSI ISHARE SAE Jayakar Library British Lib.	-	Membership ACM ARAI Ashare ASME CSI ISHARE SAE Jayakar Library British Lib	60,000		60,000

4.3. Technology up gradation (overall)

	Total Computers	Comp Labs	Internet	Browsing Centres	Computer Centres	Office	Dept	Others
Existing	980		10 MBPS leased line (Tata Communication) & 4 MBPS leased line (Reliance)	01	01	15	925	40
Added	150		34 MBPS leased line (Tata Communication) 10 MBPS leased line (Reliance)	-	-	5	145	-
Total	1130		44 MBPS leased line	01	01	20	1070	40

4.4. 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: 1130 computers + 15 Laptops + 21 Servers
- Internet details : 44 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.

4.5. Amount spent on maintenance in lakhs :

i) ICT	24.3
ii) Campus Infrastructure and facilities	441.00
iii) Equipments	14.1
iv) Others	-
Total:	479.80

Criterion – V

5. 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.
- Arranged various industrial visits for students and staff to enhance practical knowledge.

5.2. Efforts made by the institution for tracking the progression

- Discussion at regular intervals on student progress, attendance monitoring in the regular meetings of HODs, GFM and Academic planning committee members.
- Preparation of planner for academics, tests, co-curricular, extra-curricular and social activities in advance.
- Arranged remedial classes for slow learners.
- Conducted regular feedback from the students regarding teaching and remedial actions was taken by higher authorities.

5.3. (a) Total Number of students

UG	PG	Ph. D.	Others
2733	700	Nil	Nil

(b) No. of students outside the state

6

(c) No. of international students

Nil

	No	%		No	%
	1903	55.44		1530	44.56

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1661	256	46	460	04	2422	Merit List Not yet Approved by DTE, Maharashtra					

Dropout % -

1%

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

- Arranged seminars under student activity session to provide information related to Post Graduate courses such as MS, MBA etc. to study abroad.
- Conducted seminars on preparation of management exams such as GMAT, CAT etc and admission counselling for eligible students.
- Assisted students by conducting Mock GATE exams.
- Arranged lectures and workshops from various student organizations to create awareness about preparation for competitive exams such as GATE, GRE, NET, SET.

No. of students beneficiaries 693

5.5. No. of students qualified in these examinations

NET	2	SET/SLET	Nil	GATE	27	CAT	4
IAS/IPS etc	Nil	State PSC	Nil	UPSC	1	Others	9

5.6. Details of student counselling and career guidance Counselling

- Counselling is done under Guardian Faculty Member (GFM) scheme with an objective of overall development of students.
- The progress of the students is monitored at personal level.
- Meeting with the parents is organised as and when required.
- Personal counselling on problems related to lack of confidence is provided.
- Counselling regarding personality development and communication skills is provided so that our students excel in their placements.

Career guidance

- Provided Career counselling regarding the choice of a career based on the aptitude and competence of the individual and information about job availability.
- Guided and helped students by internal as well as expert from industry on various aspects such as:
 - Personality Development
 - Career Goal
 - Higher studies
 - Management studies
 - Internships and workshops
 - Placement

No. of students benefitted 2297

5.7. Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
97	683	73	100

5.8. Details of gender sensitization programmes

- Lecture on “Women Rights Awareness” by Mrs. Joshi, Principal of ILS College, was organized for girl students and female faculties.
- Lecture on “Safety Awareness and their Rights” by Mrs. Seema Mehendale, Police Inspector Crime Branch was organized for the students.
- Organised 10 days workshop on “Self Defence Training Program” for Girl students.

5.9. Students Activities

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

Sports : State/ University level National level International level

No. of students participated in cultural events

Cultural: State/ University level National level International level

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

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10. Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	00	00
Financial support from government	1424	70,436,953
Financial support from other sources	4	8000
Number of students who received International/ National recognitions	Nil	Nil

5.11. Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

No. of social initiatives undertaken by the students

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

Criterion – VI

6. Governance, Leadership and Management

6.1. State the Vision and Mission of the institution

Vision

Creation of a collaborative academic environment to foster professional excellence and ethical values

Mission

1. To develop outstanding professionals with high ethical standards capable of creating and managing global enterprises
2. To foster innovation and research by providing a stimulating learning environment
3. To ensure equitable development of students of all ability levels and backgrounds
4. To be responsive to changes in technology, socio-economic and environmental conditions
5. 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.
- Arranged Lectures by Industry Experts and prominent academicians.
- Interaction with alumni, corporate, visiting faculties.

6.3.2. Teaching and Learning

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

6.3.3. Examination and Evaluation

- Used Continuous Assessment for theory and practical subjects.
- Arranged extra lectures for academically weak students.
- Appointed University College Examination Officer (CEO) to ensure smooth conduct of exams.
- The College is a centre for Centralized Assessment Program of FE Engg.

6.3.4. Research and Development

- Received sanction for minor research projects by BCUD, SPPU.
- Appointed Academic Research Coordinator (ARC) for smooth conduct of research activities.
- Financial support has been given to faculties to present/ publish research papers.

6.3.5. Library, ICT and physical infrastructure / instrumentation

- Laboratories and Library are regularly updated by new Equipments, books and Journals.
- Purchased ICT based instruments and computers for classrooms, Laboratories, Library and administrative activities.
- Installed CC TV surveillance services in campus including Library and examination control room.
- Installed Biometric attendance system for staff.

6.3.6. Human Resource Management

- Full time staff of the Institute is approved by the SPPU after interview conducted by University interview panel.
- Faculties are encouraged and sponsored to participate in conferences, seminars, workshops at local, state, national, international levels, organized by department and various institutes, which are funded by AICTE, University and other funding agencies.
- Feedback is taken from students regarding 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 created in the mid of the term are fulfilled by conducting interview by Management.
- Demo lecture is 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

- Industry Experts Lectures are regularly arranged for the students.
- Industry Visits are arranged by every department.
- In Technical Event M-Pulse Industry interaction is involved in terms of Sponsorships, Judges and experts for different events.
- Industry Interaction is also done through Alumni.
- The Engineering Students have received sponsorship for their last year Projects.
- MCA students have to undergo industry experience entirely in last semester.
- Summer Projects for MBA students are sponsored by industry.

6.3.9. Admission of Students

- As Per the guidelines given by AICTE, DTE Maharashtra and SPPU.

6.4. Welfare schemes for

Teaching	• Concession for attending seminars /workshops / conferences. • Funding is given for publishing or presenting research papers. • Accident Insurance. • Fee concession for Staff and staff ward.
Non teaching	• Accident Insurance. • Fee concession for staff ward.
Students	• Accident Insurance. • Fee concession or instalment facility for needy students.

6.5. Total corpus fund generated 10,02,87,07

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
Administrative	No	Nil	Yes	Purchase and DSR 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.
- They are regularly contributing various other activities like visiting faculty, Judges of various activities, Guest lecturers for seminars, workshops and conferences and share their knowledge.
- Alumni who are entrepreneur are regularly interacting with students and participate in other activities.
- The Student MIS which is used in the Institute is developed by our alumni with the help of principal and staff.
- **sponsorship**

6.12. Activities and support from the Parent – Teacher Association

- Parent – teacher meetings have been arranged periodically on 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.

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

- The institute does the Energy audit periodically by BEE (Bureau of Energy Efficiency) approved energy auditors. For this the institute received subsidy by MEDA (Maharashtra Energy Development Association). In energy audit carbon dioxide emission has been calculated. The Institute at its own level has taken up certain preventive measures to check the emission of carbon dioxide.
- PUC camp by students is arranged on regular basis for pollution control.
- Along with The Institute authority takes 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.
- The Trees are planted in the Institute campus. The Institute authority has initiated Hazardous waste management and e-waste management.

Criterion – VII

7. 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.

- On-line Admission and Student Registration software which is developed by one of our Alumni with staff members is used for automation and creating different MIS reports.
- Academic Planning committee has been formed which is actively participated in existing students admission and registration, attendance monitoring of students, meetings with defaulter students and their parents, perform academic audit of Academic Record booklet.
- Activity planner and Academic calendar is prepared before commencement of each term.
- Life skill management lecture series is conducted to create awareness among the students and staff regarding various skills required for managing the professional and personal life.
- Various Technical, non-technical and Social, Cultural (etc.) activities are organized by Student Clubs and Students Association which are formed at departmental level respectively.
- Professional Chapters and associative activities are organized regularly.
- New schemes for Library have been introduced like book bank, reading club and institutional library membership. Extra two books are issued to the students who are actively borrowing books on regular basis.
- The institute does the Energy audit periodically by BEE (Bureau of Energy Efficiency) approved energy auditors. For this the institute received subsidy by MEDA (Maharashtra Energy Development Association)
- For Employability of students the Institute takes efforts on
 - Under Confederation of Indian Industry's (CII) in association with Symbiosis Group participating in grooming of SC / ST students; the impact of this activity is the high level of confidence of these students to compete with students from general category.
 - On-line certification courses/ tutorials of spoken tutorials, NPTEL are made available.
 - Under Life skill management professional and personal skill development programs are arranged
- Activities conducted Under the ED cell are:
 - Webinar on 'Funding Startups'.
 - Regular Interaction sessions for alumni Entrepreneur.
 - Training on Entrepreneurship.
 - Skill Building lectures.
 - Workshop on 3-D printed key chains.

- The Institute Organized seminar on Intellectual Property Rights on World Intellectual Property Day on 26 April 2015 in association with Great Mission Group Consultancy (GMGC) to promote and protect Intellectual Property Rights including Patent, TradeMark, Copyright, Industrial Design and Geographical Indication. Besides this the career opportunities for Science and Engineering students as patent Examiner (Class I officer) and Patent Agent was discussed.
- Youth safety awareness.
- Social Responsibility Initiative:
 - Adopted village Velhe and provided career guidance and motivation to the students studying in 8th to 12th std.
 - An active NSS chapter working in Mavadi K.P. village.
 - A number of activities for tree plantation are conducted throughout the year.
 - A blood donation camp is conducted every in association with K.E.M. Hospital.
 - Training is provided to secondary school students in rural areas for career guidance use of electrical and electronic gadgets, basic mathematics etc.
 - Our students also help visually challenged students by converting text to Braille.
 - Regular visits are made to Orphanages and Old Age Homes by the students for celebrating birthdays and other occasions.
 - Career guidance is also provided to engineering and MBA aspirants.
 - Road safety awareness programs are being conducted for school and college going students funded by US based NGO UL&YSA.
- Faculties are encouraged to participate in seminars, workshops, FDPs and conferences outside the Institute for which financial assistance is provided.
- Medical Insurance for staff and Students.
- ICT used in
 - Teaching- Learning
 - ✓ Virtual Classrooms
 - ✓ Audio-Video Lab
 - ✓ Language Lab
 - ✓ On-line tutorials
 - Students Activities
 - ✓ E-newsletter, E-Magazines, E-brochure
 - ✓ Blog writing
 - ✓ Apps for various activities which are developed by students
 - Administration
 - ✓ Biometric system for staff attendance
 - ✓ training for non-teaching staff about office automation
 - ✓ Google apps training for staff
 - ✓ Google groups , whats-up groups of students and staff for better communication
 - ✓ Student MIS for admission and registration
 - ✓ Library MIS
 - ✓ CCTV used in the campus including central Library

- 7.2. Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year
- Academic planning committee checks on smooth functioning of academic curriculum.
 - Student management Software is installed and used for admission and registration of existing and first year students.
 - Establishment of library advisory committee which includes representative from each department and is headed by Principal.
 - Life management skill programs are arranged for staff and student.
 - Skill development and Personality development lecture series are arranged for students.
- 7.3. Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)
- 1 Title of the Practice:**
- IEEE – Signal Processing Project Competition – 2015
 - Life skill management training sessions
- 2 Goal:**
- IEEE – Signal Processing Project Exhibition – 2015
 - To boost the students to put-forth their ideas, innovations and to have a glance of current projects.
 - Life skill management training sessions
 - To train the students and faculties not only for academics but to enhance their life skills.
- 3 The Context**
- IEEE – Signal Processing Project Competition – 2015
 - A project competition on Signal and Image Processing was organized in June, 2015 at the Institute by IEEE Signal Processing Society Chapter, Pune Section. Sparked off by in 18th century, Signal Processing is playing vital role in globalization. The competition was arranged to contribute in the excellence of father of Signal Processing, Sir J. B. J. Fourier and sustain the technological growth, students must be inspired for genuine research. The competition was solely emphasized on projects based on Signal Processing, Image Processing, and Speech Processing. Also, it was for the branches like E&TC, CSE, IT and Electrical Engineering.
 - Life skill management training sessions
 - Life Skills are those competencies that assist person in functioning well in the environments in which they live. Life skills have been defined by the World Health Organization as “the abilities for adaptive and positive behaviour that enable individuals to deal effectively with the demands and challenges of everyday life. Training sessions about skill development, personality development, stress management, and yoga meditation are conducted regularly for students and faculties to improve their ability to deal effectively with various demands and challenges. Acting workshops are also arranged per year for students those who are interested to participate in different acting competitions.
- 4 The Practice**
- IEEE – Signal Processing Project Competition – 2015
 - The abstracts were sent to the industry experts for the scrutiny. About sixty abstracts are sent to the experts of the Signal, Image and Speech Processing

domain. Based on the innovation, uniqueness, and contents experts short-listed the seventeen candidates. These candidates were invited to present the topic for which the judges were the experts from various industries.

- Life skill management training sessions
 - Lectures and workshops/practical sessions of eminent and expert speakers from various fields are arranged for students and faculties at department as well as at the Institute

5 Evidence of Success

- IEEE – Signal Processing Project Competition – 2015
 - About sixty students are participated in first phase of the competition
 - The competitive environment lead to the five winners which included winner, 1st, and 2nd runner ups for UG and PG category.
- Life skill management training sessions
 - Establish Clear and realistic goals for their personal and professional life
 - Overall improvement in students' communication skills and personality which boost their confidence
 - Learn to use relaxation techniques which can be beneficial to manage their stress.

6 Problems Encountered and Resources Required

- The academic calendar is packed with activities which include curricular, co-curricular and extracurricular ones which lead to a paucity of time for many more inputs which the college desires to provide to the students.
- The main problem encountered in the competition was the less participation. But from next year we will announced the competition at the time of commencement of the new term which can increased the number of participation.

7.4. Contribution to environmental awareness / protection

- The Institute makes an effort to contribute in environmental protection for campus eco-friendliness.
 - **Energy conservation**
 - The institute does the Energy audit periodically by BEE (Bureau of Energy Efficiency) approved energy auditors. For this the institute received subsidy by MEDA (Maharashtra Energy Development Association)
 - The Institute authority takes initiative to use LED street lights and CFL common lighting inside the Institute campus.
 - The campaign by the student and staff about power saving.
 - The Institute building is in L-shape and is fitted with glass windows for maximum utilization of natural light
 - Almost all Class rooms in the Institute are well-ventilated.
 - Light fixtures on two floors of the Institute have been converted to energy conserving CFL fittings from old florescent tubes.
 - 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**
 - SPPU –BCUD funding of Rs. 2,00,000/- is received for minor project title titled ‘Charging of UPS batteries with Photovoltaic cells’ by one of our faculty Mr. Ramnani, Assistant Professor in Mechanical Department.
 - A 2kW Solar photo voltaic for UPS charging for seminar hall is completed.
 - 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 restricted the usage of plastic bags in the campus.
 - The NSS unit of the Institute has been taken up program like clean Mula and Mutha rivers in the city.
- **Plantation**
 - The Trees are planted in the Institute campus.
 - Drive comprises of beautification of river banks, cleansing of river beds and tree plantation on the riverside areas in the city.
 - Under the community Development program faculties and students are participated in Tree Plantation programme which is taken up on the ‘Hanuman Tekadi’ behind Fergusson college, Pune.
 - Some of our students and faculties actively participated in watering Plants at Pashan Hill along with Vasundhara Swachhata Abhiyan members.
- **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 also.
 - The obsolete computers or products are donated to the agencies, schools where those can be used.
 - The non-working computer spare parts and other non-working equipments are safely disposed outside through the Puna e-waste Agency.
 - The cartridge/tonners of printers are refilled outside the Institute campus through vendor instead of throwing the empty cartridge/tonners.

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

- To conduct International Seminar/Conference/Workshop.
- To plan various activities to improve Industry Institute Interaction.

- To organize different activities through Entrepreneur Development Cell.
- To submit proposals to different funding agencies for funds for seminars, research and development.
- To start additional certification courses.
- To Plan and arrange AAA.
- To start additional Professional society student chapters.
- To complete Expansion and renovation canteen, parking shade.
- To make use of renewable energy (solar) for Lift maintenance, seminar hall and corridor lights.
- Introduction of foreign language courses.

Name Prof. Dr. (Ms.) Maithili Arjunwadkar

Name Prof.Dr.(Mrs.) Kalyani Joshi

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC
