



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	MODERN EDUCATION SOCIETY'S COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr. A. A. Keste
Designation	Principal (in-charge)
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02026163831
Mobile no.	9423011128
Registered Email	principal@mescoepune.org
Alternate Email	vnraibhole@mescoepune.org
Address	19, Late Prin. V K Joag Path Wadia College Campus,
City/Town	Pune
State/UT	Maharashtra
Pincode	411001

<b>2. Institutional Status</b>					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Urban			
Financial Status		private			
Name of the IQAC co-ordinator/Director		Raibhole Vaijanath Narharirao			
Phone no/Alternate Phone no.		+918007937370			
Mobile no.		8007937370			
Registered Email		vnraibhole@gmail.com			
Alternate Email		vnraibhole@mescoepune.org			
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)		<a href="http://www.mescoepune.org/AOAR-2017-18.pdf">http://www.mescoepune.org/AOAR-2017-18.pdf</a>			
<b>4. Whether Academic Calendar prepared during the year</b>		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		<a href="http://www.mescoepune.org/Institutional_Academic_Calendar_2019-20.pdf">http://www.mescoepune.org/Institutional_Academic_Calendar_2019-20.pdf</a>			
<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.13	2015	14-Sep-2015	13-Sep-2020
<b>6. Date of Establishment of IQAC</b>			13-Dec-2014		
<b>7. Internal Quality Assurance System</b>					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries	

National board of accreditation	22-Jul-2018 02	2000
IQAC Meeting Sem-I	19-Dec-2018 01	15
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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nil	Nil	Nil	2019 00	0
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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

1

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

Proposed three National Conferences Department wise and executed in Academic Year 201819 Proposed to under go National Board of Accreditation of all three Departments Motivate and support to students to participate in cocurricular and extracurricular activities like SAE, BAJA, NSS etc.

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
Process of NBA accreditation for	Prequalified and eSAR preparation in

Department of Computer Engineering	process
Upgrade and Set Up New Laboratories	Laboratories are upgraded and set up in the view of possible changes in the syllabus and Industry trends
Set up startup and Innovation cell	Startup and Innovation cell is formed as per the guidelines of Savitribai Phule University, Pune
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
College Development Committee	04-Mar-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2020
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Date of Submission	07-Feb-2018
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17. Does the Institution have Management Information System ?	No
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### Part B

#### **CRITERION I – CURRICULAR ASPECTS**

##### **1.1 – Curriculum Planning and Implementation**

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The institute is affiliated to Savitribai Phule Pune University, Pune (Maharashtra - INDIA). The curriculum of all programs are as per the scheme and syllabus of affiliated university. In general, the courses under curriculum maintain the balance in the composition of program containing Basic Science & Humanities and Core & engineering Professional Courses. The institution meticulously develops action plans for the effective implementation of the curriculum. At the outset, the Principal of the college conducts meetings with the various department heads to develop strategies for effective implementation of the curriculum. Teachers are encouraged to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars and industrial visits besides the regular/traditional chalk and talk methods. This is carried out through the following ways: 1. Departmental meetings by Heads of the department: These are held periodically by the respective Heads of the Department wherein a review of the syllabus taught is taken regularly. 2. Meetings of the Heads of the Department with

Principal: These are called by the Principal every week wherein review of syllabus taught is often one of the points on the agenda. Action Plan for effective implementation of the curriculum: 1. Academic Calendar: SPPU define and declare academic calendar for two semesters. As per SPPU calendar, All programme plans 16-week schedule in academic calendar of each semester. Activity calendar formulation and load distribution process is performed before start of semester. 2. Improving instruction methods: • Content analysis: Content analysis is prepared by every faculty member as a part of the course file well in advance of commencement of term. It includes lesson plan, notes of the topics, previous years question papers from SPPU, list of assignments, list of reference books with page numbers of the content, Planned date and actual conduction date. • ICT tools: To disseminate understanding of courses to students, faculty members use various ICT tools like blogs and videos. • The time table is followed strictly and no slot is left unused. If any faculty is going on leave then faculty members load is adjusted with proper documentation. Faculties involve in the teaching process until, student's doubts are clarified. • Collaborative learning helps students to learn by themselves in group. Seminar, project presentations are some way of collaborative learning. 4. Conduction of Experiments: • Faculty delivers basic knowledge for the conduction of experiment to all the students in the batch. • All Engineering programme have well equipped laboratories to cater the list of experiments as per SPPU syllabus, every experiment in the list of SPPU syllabus is performed in all extent. 5. Encouraging weak & bright students: • Students are classified as bright student and weak student depend upon performance in class i.e. how easily he/she can understand course. 6. Feedback: Periodical feedbacks are taken from the students on aspects of teaching-learning during each semester.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
No Data Entered/Not Applicable !!!					

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Engineering- Elective Subject Opted by BE (Computer) students: 1. Elective-I: Data Mining and Warehousing 2. Elective-II: Distributed Systems , Software Testing and Quality Assurance. 3. Elective-III: Soft Computing and Optimization Algorithms. 4. Elective-IV: Human	01/06/2019

	Computer Interface, Cloud Computing.	
BE	Mechanical Engineering- Elective - I Finite Element Analysis Heating Ventilation and Air Conditioning ,Elective - II 1. Automobile Engineering 2. Operation Research 3. Energy Audit and Management	01/06/2019
BE	E&TC Engineering-Elective Subject Opted by BE (E&TC ) students: Elective-I 1.Digital Image and video processin 2.Embedded systems and RTOS 3.Internet of Things Elective-II: 1.Electronics in Agriculture 2. Artificial Intelligence Elective- III: 1.Audio and Speech processing 2. Machine learning 3.Software Defined Radio Elective- IV: 1. .1.Wireless sensor Network 2. Renewable Energy System	01/06/2019
ME	Elective Subject Opted by ME (Computer) students: 1. Elective-III: Pattern Recognition	01/08/2019
ME	Elective opted by ME Mechanical Students: Elective - I (SEM -I) 1. Energy Audit and Management 2. Financial Management 3. Intellectual property Right Elective - II (SEM- II) 1. Design of Material Handling Equipment - I 2. Design of Material Handling Equipment - II 3. 3.Process Equipment Design Elective - III (SEM- III) 1. Industrial Tribology - I 2. Industrial Tribology - II 3. Product Life Cycle Management	01/08/2019
ME	Department of E&TC Engineering: Elective Subject Opted by BE (E&TC ) students: Elective-I	01/08/2019

1.Digital Image and video processin  
 2.Embedded systems and RTOS  
 3.Internet of Things  
 Elective-II:  
 1.Electronics in Agriculture  
 2. Artificial Intelligence  
 Elective-III:  
 1.Audio and Speech processing  
 2. Machine learning  
 3.Software Defined Radio  
 Elective-IV:  
 1. .1.Wireless sensor Network  
 2. Renewable Energy System

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	0	0

### 1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Department Computer Engineering : Foreign language Courses - German	01/06/2019	210
Department Computer Engineering : Foreign language Courses - Japanese	01/06/2019	205
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		
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### 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
 (maximum 500 words)

Feedback Obtained
Programme feedbacks are taken twice in semester as per schedule in academic calender. Two types of feedbacks taken from students consist of teaching

learning process and programme activities Feedback form consists of feedback about course, college infrastructure, Library, etc., and analysis of feedback is done by faculty with corrective actions. The analysis with coorrective action plan is sent to the departmental coordinator and a summary of the same is prepared. Programme Assessment Committee (PAC) discuss on the feedback of concerned faculty members individually. Accordingly, that they suggest future course of action. Feedback from the stakeholders such as employers, alumni and industry is obtained yearly from which the adequacy of the curriculum is ascertained. Interaction is done with Alumni of the department during alumni meets and through email and telephonic discussion. Alumni are encouraged to interact with the students in the department during their visits on the campus. They are also invited as a judges for technical activities, Alumni meet and Annual Social Gathering.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
ME	Mechanical Design	24	9	9
ME	E&TC - Signal Processing	24	2	2
ME	Computer Engineering	24	6	6
BE	Mechanical Engineering	144	162	162
BE	Electronics and Telecommunicati on Engineering	144	153	153
BE	Computer Engineering	216	223	223
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### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1875	32	124	0	24

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
124	18	2	0	0	2



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### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

In order to improve performance of the students with respect to their attendance, results and participation in various activities, there is a close association between teachers and students. The contact hours with teachers are increased. In addition, some of the students need personal guidance and counseling. The Institution follows a student's mentoring system called as parent teacher after each 16 to 18 students. Each teacher is given a responsibility of 16 to 18 students from Second, Third and Final year. This creates a better environment in college, where students can approach teachers for both educational and personal guidance. The Parent Teacher (PT) closely monitor every student's academic performance assigned to him/her and ensure that his/her performance improves. PT also ensures that parents are regularly updated about their ward's progress through parent teacher meeting. The meeting is held atleast once in a semester. Advice and support for improvement in academic performance is given by PT. The Training and Placement Cell of the Institution assists the students by conducting trainings, seminars and workshops for their overall grooming thereby making them eligible for better placement opportunities. The Institution provides fee waiver facility to economically weaker students in order to support them to continue their education. Various committees are in place to motivate and encourage the students to participate in competitions at different levels. Anti-ragging Committee and Internal committee are in place to help the students in case any mishap happens to students. Medical Checkup is arranged in first year and counseling is done.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1875	124	1:16

### 2.4 – Teacher Profile and Quality

#### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
114	124	0	61	19

#### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
<b>No Data Entered/Not Applicable !!!</b>			
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### 2.5 – Evaluation Process and Reforms

#### 2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	628161210	8	31/05/2019	17/07/2019
BE	628137210	8	31/05/2019	17/07/2019
BE	628124520	8	31/05/2019	17/07/2019
BE	628124510	8	31/05/2019	17/07/2019
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### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

As an affiliated institution of Savitri Bai Phule Pune University (SPPU), evaluation norms of the university are followed. The university has adopted major reform in evaluation by introducing Credit based grading system from the academic year 2015-16 and the institute has adopted the same. The college has adopted a method of assessing the academic performance of the students on a continuous basis. As per the guidelines of SPPU the institution appointed college exam officer for smooth conduction of Examinations.

1. In-Semester assessment (Weightage-30/50 Marks): SPPU schedules online/in-semester examination every semester for SE, TE and BE students. It is smoothly executed at the institute level. An online examination of multiple choice questions is conducted in two phases for FE and SE ETC engineering course. The weightage of this exam is 50 Marks and syllabus is four units of each course. Similarly, in-semester examination of 30 Marks based on three units is conducted by SPPU for TE and BE ETC engineering students. SPPU looks after of setting of question papers by appointing appropriate external faculty and answer sheets are assessed at the institute by the internal faculty approved by Board of Studies (BoS), SPPU, Pune.

2. End-Semester assessment (Weightage- 50/70 Marks): An end-semester examination is conducted by SPPU for FE/SE/TE/BE at the institute. This examination is based on full syllabus of course. The question paper of end-semester exam is set by experts of the respective courses appointed by the SPPU. The faculty members having expertise in respective courses are appointed and recommended to SPPU by the institute for assessment of answer sheets.

3. Practical/Oral/Term work/Seminars: The practical/oral examinations is evaluated by external and internal examiners and industry experts examine the final project work of BE students. The term work BE students is evaluated by internal and external examiners. Along with the assessment from SPPU, every department in the institute has its assessment scheme. A committee of HoD and senior faculty members decides the quality/ relevance of assessment processes for attainment of course outcomes. This committee studies several factors affecting the attainment of course outcomes of all courses. The committee also assesses various aspects of university examination and assessment processes used at Savitribai Phule Pune University(SPPU) and department level for evaluating course performance. It conducts several brain- storming sessions with all staff members for evaluating the attainment of course outcomes and frames guidelines. The following tools are considered relevant for evaluation of course outcome attainment:

A. Term work (Internal assessment) Continuous assessment: The faculty assesses students continuously using parameters like attendance in class and lab, timely submission of write-ups, performance in lab etc. for deciding their term work.

B. Assignments: Assignments are given to the students from time to time to judge their understanding and gain of knowledge.

C. Test: All faculty conduct test of course as per schedule in academic calendar. These tests are based on course outcomes predefined by faculty. This helps in preparing students for university examination.

D. Seminars: Students are encouraged by faculty to give seminars on topics

### 2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The academic calendar is a important document. Our academic calendars provide information about teaching dates examination dates extra co-curricular activities, semester- based and annual based examinations. SPPU prepares academic calendar with major activities such as commencement and end of teaching, examination schedule and events. Savitribai Phule Pune University (SPPU), Pune prepares the academic calendar with major activities such as commencement and end of teaching, examination schedule and list of holidays for the affiliated institutes. Department has Academic Monitoring Committee (AMC) which comprises of Head of department (HoD) and faculty members to monitor the

routine activities of program. The AMC prepares academic calendar in line with SPPU calendar and it is approved by higher Authorities. Academic calendar of department incorporates curricular, co-curricular and extra-curricular activities along with examination schedule. The academic calendar of department is circulated to all faculty members, displayed on notice board and is also made available on institute website for students. In department faculty meeting, review of academic calendar activity is taken time to time and reports are prepared by respective faculty members. The Principal and HODs sees to it that all departments follows academic calendar.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

[http://mescoepune.org/Learning\\_outcome.php](http://mescoepune.org/Learning_outcome.php)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
628124510	BE	Computer Engineering	203	198	97.53
628137210	BE	Electronics and Telecommunication Engineering	132	115	87.12
628161210	BE	Mechanical Engineering	160	145	90.63
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.mescoepune.org/StudentsSatisfactionSurvey.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Projects sponsored by the University	730	SPPU	992311	0
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### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
The syllabus implementation meeting	Mechanical	09/01/2019

for Industrial Engineering subject.		
The syllabus revision workshop of CAD/CAM Automation subject.	Mechanical	27/02/2019
The syllabus implementation workshop of CAD/CAM Automation subject.	Mechanical	10/07/2019
LATEX	Mechanical	22/02/2019
Guidelines for selecting BE project	Computer	12/07/2018
Ethical Hacking	Computer	18/07/2018
Using Network Visibility to Detect Well-Hidden Threat	Computer	20/08/2018
Android Programming	Computer	24/08/2018
Intellectual Property Rights IPR	Computer	07/09/2018
Guidelines To Create Intellectual Property	Computer	29/09/2018
Career opportunity UI/UX	Computer	01/02/2019
Coding standards and best practice	Computer	11/02/2019
Information and cyber security	Computer	19/03/2019
Guidelines for Abroad study	Computer	19/03/2019
OOPs-Pure Virtual Function	Computer	20/03/2019
Data Structure- Decision Tree	Computer	20/03/2019
Web Technology - Node JS	Computer	22/03/2019
Emerging Careers	Computer	22/03/2019
FDP on Guidelines to Create Intellectual Property [IP]	Computer	29/09/2018
Workshop on Functional Programming	Computer	29/06/2018
Cyber Disease	Computer	06/10/2018
Mozilla Firefox Club	Computer	07/09/2018
Advance Cloud Technology	Computer	22/09/2018
Hachtech Workshop - 40 Hrs. - Pristine Info solutions -	Computer	01/08/2018
Big Data - 60 Hrs. - Globe minds Solution -	Computer	01/09/2018

Stand to win Mental Awareness Program	Computer	28/09/2018
Latex Workshop in Association with CSI	Computer	22/09/2018
Two days' workshop on Python and WMachine Learning	Computer	08/02/2019
Two Days Workshop on Applications of Computer Graphics	Computer	01/03/2019
Five Days Faculty Development programming on "Oracle Programming Using PL/SQL"	Computer	10/05/2019
One Day FDP on Design Thinking for Educators	Computer	07/01/2019
Workshop on IoT	ETC	01/07/2018
One Day FDP on How can I	ETC	18/01/2019

### 3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
<b>No Data Entered/Not Applicable !!!</b>				
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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
<b>No Data Entered/Not Applicable !!!</b>					
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## 3.3 – Research Publications and Awards

### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
00	00	00

### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Mechanical	1
Computer	1
ETC	1

### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical	38	0.75
International	Computer	62	4
International	ETC	15	5.75

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
ETC	15
Computer	11
Mechanical	1
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						
<a href="#">View File</a>						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	0	32	50
Presented papers	4	34	0	0
Resource persons	0	0	1	1
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**3.4 – Extension Activities**

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
00	00	0	0
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Student	Pune City zonal	SPPU	47

Development- Earn and Learn Scheme

Best College Award

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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
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No Data Entered/Not Applicable !!!

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### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
00	00	00	00

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
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No Data Entered/Not Applicable !!!

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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
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No Data Entered/Not Applicable !!!

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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
110.5	28.32

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing

Seminar Halls	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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## 4.2 – Library as a Learning Resource

### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
SLIM 21 3.6.0 Software	Fully	3.6	2007

### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	37915	16250528	821	877593	38736	17128121
Reference Books	2228	3222299	73	333366	2301	3555665
e-Books	0	0	0	0	0	0
Journals	0	0	60	470135	60	470135
e-Journals	0	0	714	1612086	714	1612086
Digital Database	0	0	0	0	0	0
CD & Video	18030	100000	0	0	18030	100000
Library Automation	1	139000	0	0	1	139000
Weeding (hard & soft)	0	0	0	0	0	0
Others (specify)	0	0	0	0	0	0
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### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Prof. S. P. Patil	Course Outcome Form As per NBA Requirement using Blooms Taxonomy	YouTube	25/01/2019
Prof. M. A. Malwade (Comp)	Web Technology	YouTube	21/03/2018
Prof. A. D. Dhawale (Comp)	High Performance Computing.	YouTube	06/08/2018



Dr. A. C. Mitra	Theories of Failure_Numerical	YouTube	13/11/2018
Dr. A. C. Mitra	Mohrs Circle Numerical_Part-I	YouTube	31/10/2018
Dr. A. C. Mitra	Mohrs Circle Numerical_Part-II	YouTube	31/10/2018
Dr. A. C. Mitra	Attainment calculation of Course Outcome (CO) and Prog Outcome (PO) _ 2018	YouTube	11/08/2018
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1039	20	70	1	1	1	4	70	0
Added	0	0	0	0	0	0	0	0	0
Total	1039	20	70	1	1	1	4	70	0

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

70 MBPS/ GBPS
---------------

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	<a href="#">NIL</a>

#### 4.4 – Maintenance of Campus Infrastructure

##### 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
277.29	15.87	139	5.52

##### 4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The institute gives prime importance to the maintenance of academic and support facilities. It ensures proper allocation and utilization of the available financial resources for maintenance and upkeep of different facilities. Timely meetings are conducted various committees formed as per the requirements in the interest of students. Classrooms: Every classroom is equipped with overhead projector and internet facility. Classroom ambience is maintained by daily cleaning. Electrical equipments like lights, fans, switchboards, etc. are under regular observation and maintained as per requirement. Laboratory: Appropriate infrastructure is available in laboratories to fulfill curriculum requirements.

To ensure the smooth functioning of practical sessions preventive and breakdown maintenance is carried out as per lab requirement. Following are the various maintenance activities carried out in different labs and workshop. Routine and periodic check-up of the equipment's. Ensuring proper functioning of different parts of equipment and developed experimental setup. Periodic calibration of equipment. Cleaning and lubrication of equipment. Computers: Regular maintenance of the laboratory computers On sight identification and resolution of computer related minor problems by the expert technical staff. Instrument under Warranty having major problem, call lock to the vendor by technical staff for further action. Use of updated open source softwares as per university syllabi. Library: Library is fully automated using Slim Web OPAC software. Library has maximum titles and volume of various streams to fulfill academic as well as non-technical aspects in the interest of students. Library is also well equipped with online databases and print journals. Every semester for up gradation of books recommended books by respective subject faculty are procured with final approval by the principal. Sports: The college sports in charge is appointed for the maintenance of sports equipment. Sports section is well equipped with various sports equipments.

<http://www.mescoepune.org/documents/Procedures%20and%20policies.pdf>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

#### 5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View File</a>					

#### 5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	12

### 5.2 – Student Progression

#### 5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
<a href="#">File attached</a>					
<a href="#">View File</a>					

#### 5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	1	ETC	ETC	Commins COE	ETC
2018	1	ETC	ETC	BITS Pilani Dubai	ETC
<a href="#">View File</a>					

#### 5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	11
GMAT	5
GRE	2
Any Other	3
<a href="#">View File</a>	

#### 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

### 5.3 – Student Participation and Activities

#### 5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

#### 5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The institution has student representatives for different activities concerning their interest. Following activities were conducted during A.Y. 2018-19. 1. Karmaveer Bhaurao Patil Earn and Learn Scheme- This is basically for the benefit of students coming from rural areas that are economically backward, intelligent and meritorious but cannot afford higher education. The objectives of this scheme is to develop a student as multifaceted personality excellence and commitment to an egalitarian society and make them aware of importance of work.

The students enrolled under the scheme are given different types of work that increases their skills in areas of study, office work, technical work, field work and library. They get remuneration as per the number of hours they do the work. 2. Sadbhavana Day- Objective is to promote national integration among students and is to abstain from violence and to promote goodwill among them. 3. Marathi Rajbhasha Gaurav Din- On this occasion different competitions were conducted in the institute. The other activities conducted were Nirbhay Kanya Abhiyan- 1. Personality development for girl student 2. Health awareness program 3. Self defence program 4. Disaster management. Academic related workshops conducted during year were 1. Workshop on Python and machine learning. 2. Workshop on DBMS and SQL. 3. Workshop on PCB design 4. Workshop on computer graphics. 5. Workshop on LATEX etc. During this A.Y. institute received BEST COLLEGE AWARD by Student Development Board , SPPU Pune.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

0

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

-

### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

1. Budget preparation • At the beginning of term HOD of four departments request all the Lab-In-Charges to check the availability of equipment/materials/software etc. required for concerned laboratory for conducting practical satisfactorily. The concerned faculty takes into accounts various factors such as expected syllabus change, out of syllabus contents, status of available equipment/materials/software and prepares budget estimation. • HODs also requests faculty who are In-Charges of various activities/events for their budget requirement of the term. • After discussion the concerned faculty submit their budget in the approved format which is later compiled by HOD and submitted to Principal for approval. • After approval from Principal budget allocation is done. 2. Academic calendar • The Academic Calendar is an information source and planning document for faculty and department as whole. The calendar includes timelines for various activities/events, exam dates and more. • Academic calendar is prepared by all the departments at the beginning of the semester and compiled for institute level. In-charges are selected at institute level as well as departmental level who conduct meetings as per requirement weekly/fortnightly/monthly to take the review. • All In-charges are selected at institute level and HODs hold weekly meeting with Principal • Different roles are allotted to various faculty members. Academic calendar is monitored and well executed. • Student academic calendar is prepared as well which has content directly related to students such as exam dates, holidays etc.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	<ul style="list-style-type: none"><li>• The curriculum design developed by Savitribai Phule Pune University (SPPU) is followed by the institute.</li><li>• Faculty organize as well as participate in syllabus revision workshop.</li><li>• Faculty members are acting as chairman for different courses mentioned in syllabus and actively involved in paper setting.</li></ul>
Teaching and Learning	<ul style="list-style-type: none"><li>• Instruction delivery is as per the syllabus provided by SPPU. In SPPU syllabus weekly hours are specified for each course. The faculty conduct lectures and practical as per structure mention by SPPU.</li><li>• Qualified and experienced staff is recruited as per AICTE and DTE guidelines. The faculty members use appropriate techniques and tools for instruction delivery. To bridge the curricular gap contents beyond the syllabus are taught by the faculty members.</li><li>• Emphasis is on imparting skills through laboratory experiments and various skill development Programmes.</li><li>• The course outcomes are measured by internal test, on-line examinations, course exit survey, result analysis, different activities like Baja, Robo-club etc.</li></ul>
Examination and Evaluation	<ul style="list-style-type: none"><li>• University examinations are conducted is per schedule and evaluation process is carried out at university level. Time table is displayed on notice board for students. Faculty participate actively for conducting university examination and evaluation.</li><li>• Internal tests are conducted with planning and preparation. Marks are shown or communicated to students through parent teachers.</li><li>• Continuous assessment of student performance is carried out through tests, assignments, seminars and projects.</li></ul>
Research and Development	<p>R D Lab and cell is active at institute level. Many students from different departments are given final year projects which are sponsored by this cell. Faculty are encouraged to do research through this cell.</p>

<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<ul style="list-style-type: none"> <li>• Library committee plays an important role for purchase of the library books and other necessary equipment's.</li> <li>• Library is well organised with 8000 titles and 40000 volumes.</li> <li>• Library is fully automated using barcode technology though Slim Web OPAC Software.</li> <li>• Library provides Google alert services to different faculty.</li> <li>• Library Subscribes on line full text databases where all the faculties and students can access the required articles through static IP.</li> <li>• Library subscribes Print Journals for all the depts</li> <li>• Library has a separate Digital Library with 20 PCs for scanning of online journals and NPTEL lecture videos.</li> <li>• NPTEL Lecture Videos - 18030</li> <li>• Online Journals</li> <li>• Science Direct 276</li> <li>• IEEE ASP POP 1500</li> <li>• ASME 29</li> <li>• Print Journal 60</li> <li>• General Reading Magazines 15</li> <li>• News Papers 8</li> </ul>
<p>Human Resource Management</p>	<ul style="list-style-type: none"> <li>• Human resource management in education sector is very important. The Institute takes care of its human resources.</li> <li>• Employees are given most extreme significance and their needs are well-perceived.</li> <li>• Service rules are made transparent and the employees avail benefits such as Provident Fund, Gratuity, and Group Insurance Scheme etc.</li> <li>• The faculties and staff are entitled to other benefits like casual leave, maternity leave, medical leave, earned leave and vacation according to rules laid down in the statutes of SPPU.</li> <li>• Frequent training programs are arranged the institute. The staff is deputed to other for attending programs for acquiring various skills</li> <li>• The Institute has a well-structured and effective selection procedure, systematic performance appraisal system and promotion policies.</li> </ul>
<p>Industry Interaction / Collaboration</p>	<ul style="list-style-type: none"> <li>• Industrial visit are arrange to facilitate industrial interaction. Various guest lectures are arranged for students to improve industrial interaction.</li> <li>• The institute has signed various MoUs with renowned industries. Various co-corricular activities such as guest lecture, Industrial visit, students' development program etc. are organized under these MoUs.</li> </ul>
<p>Admission of Students</p>	<ul style="list-style-type: none"> <li>• As State Common Entrance Test Cell governs the engineering admission process, the institute follows the</li> </ul>

rules, regulations and guidelines set up by the Government of Maharashtra. The institute follows the quota rules as per the norms for the students in the reserved category and maintain transparency in the procedure. All the applications received at the institute level are processed and filled on merit basis.

#### 6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	<ul style="list-style-type: none"> <li>Library is fully automated using SLIM web OPAC software .Various reports are generated using this software.</li> <li>Books are issued through barcode and scanner system using SLIM software</li> </ul>
Administration	<ul style="list-style-type: none"> <li>Communication with faculty and non-teaching through emails</li> <li>CCTV System</li> <li>Bio Matrix Attendance System</li> </ul>
Finance and Accounts	Tally Aspire software is used for handling all accounting processes
Student Admission and Support	Information is available on institute website
Examination	Examinations are handled in online support from SPPU

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional	Number of teachers who attended	From Date	To date	Duration
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development programme				
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
64	28	64	5

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>• Loan facility for credit society,</li> <li>• Training Program</li> <li>• Extended maternity Leave.</li> </ul>	<ul style="list-style-type: none"> <li>• Loan facility from credit society</li> <li>• Training Program,</li> <li>• Uniform</li> </ul>	<ul style="list-style-type: none"> <li>• Provides Platform to get various scholarship</li> <li>• Medical Check-ups</li> <li>• Training Programmes</li> <li>• Earn Learn scheme</li> </ul>

## 6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

<ul style="list-style-type: none"> <li>• Internal Financial audit is done quarterly by appointed chartered accountant</li> <li>• All expense details such as fees collected, staff salaries, purchase, repair maintenance etc. are checked.</li> <li>• Quarterly statutory audit is conducted by chartered accountant appointed by management for verification. All the queries raised by auditors are satisfied by the concerned staff.</li> </ul>
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6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

5500000
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## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No		Yes	Internal academic monitoring committee
Administrative	No		Yes	Internal auditor

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

<ul style="list-style-type: none"> <li>• In all departments Parent teacher is assigned to every student. Parent teacher monitors students attendance and overall performance of students and gives advice whenever necessary.</li> <li>• Every department organizes parent meet in</li> </ul>
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every semester .Generally the meetings are held in February and August. • Goals of this parent meet include interaction with parents, encouragement of teachers and students, community involvement, and welfare of students .Through these meetings parents are informed about various accreditation processes and they are actively involved in discussion with members visiting for accreditation process.

6.5.3 – Development programmes for support staff (at least three)

- Staff development program by Sushant Kolhatkar from Happiness Hub. Dates:17 to 30 March 2019 in 2 batches from 8am to 6.30 pm Total attended :33

6.5.4 – Post Accreditation initiative(s) (mention at least three)

- IQAC cell became active after first NAAC Accreditation. • Mechanical and E TC department were accredited by National board of accreditation (NBA) • Different committees were formed to decentralize responsibilities such as academic monitoring, extracurricular and student development cell etc. • Smart classroom concept was initiated

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View File</a>					

**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 – Institutional Values and Social Responsibilities**

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
NSS Special camp at NandGao Village Woman Empowerment	23/12/2018	29/12/2018	13	14
Save Girl Child awareness programme by NSS	24/01/2019	24/01/2019	13	14
Nirbhaya Kanya Abhiyan	04/02/2019	04/12/2019	125	0
Personality Development for girl students	12/02/2019	12/02/2019	125	0

Health Awareness Programme	04/02/2019	04/02/2019	125	0
Self Defence Programme	25/02/2019	25/02/2019	50	0
Earn and Learn Scheme	17/12/2018	15/04/2019	34	33
Swatch Bharat Abhiyan	01/10/2018	01/10/2018	13	14
Behavioral Change in Respect of Sanitation at 'Mahatma Jyotiba Phule School'	25/09/2018	25/09/2018	13	14
Beti Padhao Beti Badhao	24/01/2019	24/01/2019	13	14

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<p>Water Harvesting: At campus Rain Water Harvesting system is in place. Alternate Energy initiatives: 3KW - Roof top -Solar Power system is designed-assembled -successfully installed by faculty and staffs of MESCOE. This was a pilot project , towards green energy initiative on Wadia college Campus Pune.</p> <p>Environmental Consciousness : NSS special camp held at Village Nandgaon, Taluka Mulashi, Pune from 23rd Dec 2018 to 29th Dec 2018 to build "KOLHAPURI BANDHARA" in order to achieve Environmental Consciousness (Pani Adawa Pani Jirwa).</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	10
Ramp/Rails	Yes	10
Rest Rooms	Yes	2
Scribes for examination	Yes	3
Physical facilities	Yes	10

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	25/09/2018	1	Behavioral Change in Respect of Sanitation	Behavioral Change in Respect of Sanitation	27

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#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of conduct (handbooks)	01/06/2018	Every year in the month of June

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Gandhi Jayanti Celebration	01/10/2018	01/10/2018	108
Sadbhavana Day Celebration	31/10/2018	31/10/2018	103
Marathi Bhasha Gaurav Din	26/02/2019	27/02/2019	21
Peace Rally	02/10/2018	02/10/2018	43
Mass Singing of National Anthem	23/08/2018	31/12/2019	400
Independence Day Run	15/08/2018	15/08/2018	80

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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Tree Plantation activity in college ground. 2. Use of Solar System 3. Water Harvesting 4. Garbage Management in the campus 5. Write-off of old materials

## 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

Best Practice I 1. Title of the Practice: 'Industry Institute Interaction' 2. Goal Main objective is to establish and maintain relationship with corporate world through MoUs, Centre of Excellence, sponsored projects, industrial visits and in-plant trainings for students and faculty members. 3. The Context Institution has taken initiative to interact with various industries through Industry Institute Interaction committee that maintains professional relations with industries. Industrial visits are arranged for students and faculty members to gain practical exposure and keep abreast their knowledge. To achieve academic excellence, students are encouraged to interact with industries and research organizations through FDP, industrial visits, sponsored projects, trainings, internships, consultancy etc. Industry professionals are regularly invited for sharing their knowledge with the students. It opens up a fresh avenue to young enthusiastic minds and faculty members to develop skills across diverse areas including managerial skills, social responsibilities and Industry liaison. "Industry-Institute-Interaction" provides a platform for both the students as well as faculty members to be aware of industry expectations of skill sets required for students. This enables students to be aware of the lacunae in their skills and provides an opportunity to upgrade them. Industry-Institute-Interaction helps to bridge the gap between Industry and Institute, to share the experience and expertise between Institutions and Industry for mutual benefit, to organize Workshops, Conferences with joint participation of the faculty and the students, to encourage professional engineers from Industries to deliver lectures, to develop good work culture among students, to foster research work and develop laboratories, discussions and delivering lectures on industrial practices, trends and experiences. The benefits of

Industry-Institute-Interaction is adoption and operation of curriculum which when taken up in engineering colleges helps making of entrepreneurs when the student completes his academic courses. Industry-Institute-Interaction cell ensure that the industry institute collaboration proceeds smoothly and helps in making of better engineers and entrepreneurs. 4. The Practice To strengthen the Industry Institution Interaction, Institution is closely associated with the reputed Industries and professional bodies like, ISHRAE , Baker Gauges India. IFS Academy, IoT CoE, Centre for Development of Advanced Computing (CDAC), AMITEC Electronics Ltd. Pearson VUE Test Centre, Texas Instruments, CII etc. Institution is a member of Education Excellence Forum under CII. Aimed at developing meaningful relationships with industries to create and strengthen mutual beneficial relationships between Institution and Industry. Encouraging Engineers from industries to visit institution to deliver lectures ? Faculty Development Program - To upgrade professional skills, various FDPs are conducted which includes interactive sessions by Industry experts and Industry workshops/ trainings. ? Student Development Program - For overall development of students, various programs are conducted like personality development, career counselling, technical competitions, industry training programs, industrial visits, add on courses etc. ? Curriculum Review - The Institution has constituted Academic Advisory Board which comprises of experts from various industries. Their suggestions are incorporated into the curriculum through various add-on courses/guest lectures. ? Industry Linkages - Institution is trying to build International linkages by availing membership of professional bodies, Arranging industrial visits/ Training to students. Promoting industrial training for students, Conducting seminars, workshops, continuing education programs etc. MoUs with various Industries and partnership between Industry and academia through consultancy. companies and different activities such as project sponsorships, competitions, seminars, workshops and technical events are conducted. To get industry exposers the Final year BE project poster presentation is organized and assessed by industry experts/alumni. 5. Evidence of Success Work shop on 'Internet of Things' IoT was arranged for benefit of faculty. Conferences are arranged to bring about the technical development of students by organizing seminars, workshops and other activities, to improve non-technical abilities of students by engendering good communication skills, managerial abilities, presentation skills and team work. Following conferences are arranged. ACCET by ETC Engg. Department, RACE by Computer Engg. Department), RDME (by Mechanical Engg. Department). Industrial Visits are arranged to know the current industrial practices Industrial visits offer a great source to gain practical knowledge. Students can observe and learn as to how theoretical concepts are put to into action, thereby aiding their practical learning. Students are exposed to real working environment and shown how things are done in an organisation 6. Problems Encountered - ? sometimes it is a difficult to call speakers from prominent companies for expert sessions because of their busy schedule. ? It is difficult to ensure sponsored project for all the final year students. Best Practice II 1. Title of Practice: Professional Skill Development Through Co-Curricular and Extracurricular Activities 2. Goal: Co-curricular and Extracurricular activities are designed and balanced with academic curriculum so that every student gets to learn beyond subjects. Co-curricular and Extracurricular activities activities are meant to bring social skills, intellectual skills, moral values, personality progress and character appeal in students. 3. The Context: . Co-curricular activities are significant for enriching students on an emotional, cognitive, physical, and social level. The enrichment of the curriculum can come in the shape of the hidden curriculum (i.e., unwritten, unofficial, and often unintended lessons, values, and perspectives that students learn in school) or be structured as additional activities that are aimed at enriching the existing curriculum in alignment with learning outcomes and pedagogic activities. Co-curricular activities have also acted as a catalyst for the promotion of national integration,

coexistence, cultural values, and general health and well-being in many countries. Whether they focus upon sports, arts, music, science or other areas, co-curricular activities play a significant role in students' overall holistic development, as well as screening talents and giftedness among children and young learners, which highlights their significance within government school systems. At the same time, extracurricular activities incorporating NSS, art and music can play a vital role in nation-building, psychomotor development and dexterity. Consequently, the role of art and music needs to be articulated and understood in terms of its role in the provision of well-rounded learning, and in terms of their social and emotional significance. This is because music and the arts play an instrumental part in promoting peace and dialogue and spreading socially-conscious messages. The studies have shown being involved in extracurricular activities reduces the likelihood of dropping out of school/college, likelihood of committing a criminal offense, and leads to higher educational retainment and success and achievements in school work, not to mention that the greatest advantage of participating in at least one of these activities is the decrease in anti-social behaviors and students growing up to be more successful in communication and relationships. Professional Skill Development Though Co-Curricular and Extracurricular Activities are benefited to students/ stakeholders : It brings healthy competition amongst the students.

- The overall career of student shines and the leadership qualities grows in the students.
- It empowers and helps the students to express themselves freely.
- These activities help the students not only to be wise but also be fit and energetic in their lives. It also inculcates the values to respect other's view and feeling.
- The student gets exposure to organize activity, to develop skills, to co-operate and co-ordinate in different situations. It also provides ample opportunity for self-identification and self-assessment in different situations and circumstances.
- It provides sufficient skill how to behave and manage the situation when they are in contact with organizers, fellow participants, teachers, and people outside the school during cultural activity.
- It develops a sense of belonging and it becomes very important in decision making situations. It enhances the interest in the academics

College is taking sufficient efforts in making Professional Skill Development Though Co-Curricular and Extracurricular Activities successful.

4. The Practice: Every activity in Institute Student life plays a significant role in development of students. Co-curricular activities are an essential part of life and helps in enhancing learning process of students. Co-Curricular activities are compulsory activities which is important for every student to participate. Co-curricular are balanced with academic curriculum so that every student gets to learn beyond subjects. Co-curricular activities are meant to bring social skills, intellectual skills, moral values, personality progress and character appeal in students. The co-curricular activities such as their participation in group activities like debates, quizzes, group discussion, essay completions, brain storming sessions, their interaction with peer groups, etc. make them learn practically and enter into the real life challenges and overcome them by their knowledge and competence. The co-curricular activities facilitate in the multi-facet development of various domains of mind and personality such as intellectual development, emotional development, social development, moral development and aesthetic development. Creativity, enthusiasm, energetic, and positive thinking. Guest lectures are arranged by inviting field experts benefitting students

5. Evidence of Success BAJA-TEAM GYRFALCONS 1.BAJA 2019: Strong performer in all Static, Dynamic Events. 4th in ST. Ranked 22nd on 120 participants. NSS- MESCOE successfully organized seven days NSS Camp at Village Nandgaon from 23th Dec. to 29th Dec.2018 Students develop Technical skill, Leadership skill, Communication: written, oral, articulation skills, Professional positive attitude.

6. Problems Encountered and Resources required- In a developing country like India with huge population, poverty, poor health care system, illiteracy, people are still unaware of the importance of Co-

curricular activities Balancing regular study with extracurricular activities

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.mescoepune.org/BestPractice-Iand-II.pdf>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Vision of Institute- To Groom - Motivated, Environment friendly, Self-esteemed, Creative and Oriented Engineers. Under the slogan of welfare of masses, institute consistently inspire students and provide the platform for technical skills, ethical and human value development. With the trust of academic and technical excellence institute motivates and supports students to participate in various national and international events like BAJA, ROBOCON, SUPRA, Smart India Hackathon etc. with consistent participation and evidence of success. It proves distinctiveness of the institution across the nation. It includes learnability, team management, technical skills, presentation skills, project management, and financial management. They also experience their physical strength, healthy computational environment and global standards by participating in globally recognized competitions. The institute not only encourages students to participate but also provide financial support by Earn Learn Scheme Achievements: Team GYRFALCONS (BAJA Team) secured all over India rank. i. Won Best Presentation Award ii. The Winners of Sales Presentation iii. Standing Tall in Grid Position For Endurance Race iv. Aethon unleashed in Ultimate Endurance Race one of 20 out of 115 Vehicles which successfully last for 4 Hours strenuous Track

Provide the weblink of the institution

<http://www.mescoepune.org>

### 8.Future Plans of Actions for Next Academic Year

1. Establish a University recognized research center in the Institute.
2. Develop new Laboratories in view of Possible changes in syllabus.
3. Enhance engagement with Industries from various fields for student and faculty training.
4. Enhance alumni engagement in Institute development.