Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**MODERN EDUCATION SOCIETY'S COLLEGE OF ENGINEERING**
Name of the head of the Institution	**Dr. Sarawade S. S.**
Designation	**Principal(in-charge)**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02026163831**
Mobile no.	**9422460448**
Registered Email	**mescoenaac@gmail.com**
Alternate Email	**principal@mescoepune.org**
Address	**19, Late Prin V. K. Joag Path, Wadia College Campus, Bund Garden**
City/Town	**Pune**
State/UT	**Maharashtra**
Pincode	**411001**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. Pranoti P. Mane**
Phone no/Alternate Phone no.	**02026263831**
Mobile no.	**8806661816**
Registered Email	**mescoenaac@gmail.com**
Alternate Email	**pranoti.mane@mescoepune.org**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.mescoepune.org/AQAR-2018-19.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.mescoepune.org/Institutional_Academic_Calendar_2019-20.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity Period From	Validity Period To
1	**A**	**3.13**	**2015**	**14-Sep-2015**	**13-Sep-2020**

6. Date of Establishment of IQAC

13-Dec-2014

7. Internal Quality Assurance System

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	**12-Oct-2019**	**1000**

accreditation	02	
IQAC meeting	25-Nov-2019 01	10

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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	2020 0	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	**No**
Upload the minutes of meeting and action taken report	**No Files Uploaded !!!**
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)

Promoted Industry Institute interaction Activities throughout the academic year. Facilitate the LabDevelopment by purchasing latest software like MATLAB and computing facility to procure the requirements as per and beyond the curriculum. Promoted the activities of professional Technical bodies like ASME, SAE, ASHRE, ACE, IETE. Formed and renewed various MoUs with the industries like TechNex Technologies Pvt. Ltd, JALTAP, Spurs Technology Pvt. Ltd., StackZeal Pvt. Ltd., ICT academy, etc. MODROB proposals under AICTE Scheme were filled for upgradation of various labs in all the three departments and the proposal for the CAD/CAM lab to facilitate it for 3D Printing Technology is accepted by AICTE. Industrial visits as well as the guest lectures by different industry experts are arranged so as to give industrial exposure to the students. Students are promoted to do the industrysponsored projects. Financial aid is provided to the students for the inhouse projects. Provision of e content is made for advanced learning like NPTEL. Promoted and provided financial Support to students to participate in different national and international competitions (MBAJA, EBAJA, RoboCon, SIH 2020)

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
I. Industry Institute Interaction - Main objective is to establish and maintain relationships with the corporate world through MoUs, Centre of Excellence, sponsored projects, industrial visits and in-plant training for students and faculty members.	I. Industry -Institute Interaction is achieved .
II. Student Skill Development Activity - Main objective is the Development of students' technical skills and job skills necessary for industries through Co-curricular and Extracurricular activities.	II. Students skill development is achieved to a larger extent except a few activities could not be completed in the current pandemic situation.

14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
IQAC Meeting	**18-Feb-2021**

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**No**

16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2020**
Date of Submission	**01-Dec-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**The college has developed a software named CTAR for students data and attendance monitoring. And office uses software for administrative purposes.**

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 SPPU, Pune (Maharashtra - INDIA). The curriculums 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. Academic calendar is displayed on college notice board, website. All activities are preplanned and performed as per academic calendar. In the academic calendar respective activities in charges are mentioned against different activities 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. 3. ICT tools: To disseminate understanding of courses to students, faculty members use various ICT tools like blogs and videos. • 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. • In some of the courses, group of 4-5 students clubbed together to perform the experiment with the faculty and other students are engaged in writing experiment, performing calculation and finding results etc., activities. • Faculties monitor student's performance individually through continuous assessment. • 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. • Faculties motivate weak students to meet individually to understand course as per availability of time. As per performance in examination, weak students have remedial classes to clarify their doubts and get revision of basic knowledge. 6.Feedback: Periodical feedback 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/entrepreneurship	Skill Development
AWS Cloud	NIL	26/08/2019	5	Yes	Yes

Practitioner in association with ICT Academy

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Electronics and Telecommunication Engineering, Mechanical Engineering and Computer Engineering	01/08/2019
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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
ME	Computer Engineering	01/07/2019
ME	Signal Processing	01/07/2019
ME	Mechanical Engineering Design	01/07/2019

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

	Certificate	Diploma Course
Number of Students	30	Nil

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
NIL	Nill	Nill
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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
BE	Electronics and Telecommunication Engineering, Mechanical Engineering and Computer Engineering	55
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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 calendar. 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 corrective 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
BE	Computer Engineering	216	223	223
BE	Electronics and Telecommunication Engineering	144	143	143
BE	Mechanical Engineering	144	131	131
ME	Computer Engineering	24	1	1
ME	E&TC Signal Processing	24	Nill	Nill
ME	Mechanical Design Engineering	24	2	2
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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

2019	1825	19	87	Nill	27

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
87	87	9	28	1	7
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Through parent teacher interaction and many other activities (like project reviews etc), contact hours of students with teachers are increased. Stress given on close association between teachers and students. Personal problem solving and guidance is given to all students through parent teacher interaction. 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. Parent teacher and parents interaction is done through parent teacher meeting and 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 personal and overall growth and also 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 Chekup is arranged in first year and counselling is done.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1844	90	1:20

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	87	27	Nill	22

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
2020	NIL	Nill	NIL
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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
ME	628124510	2019-20	07/12/2020	30/12/2020
ME	628135810	2019-20	07/12/2020	30/12/2020
ME	628190410	2019-20	07/12/2020	30/12/2020
BE	628124510	2019-20	07/12/2020	30/12/2020
BE	628137210	2019-20	07/12/2020	30/12/2020
BE	628161210	2019-20	07/12/2020	30/12/2020
BE	628124520	2019-20	07/12/2020	30/12/2020
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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. The MCQ type online examination of is conducted in two phases for FE and SE 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 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 related to syllabus

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. • Every Department has Academic Monitoring Committee (AMC) which comprises of Head of department (HoD) and faculty members to monitor the routine activities of program. Further at college level academic monitoring head co-ordinates with each department to have uniformity in implementing Teaching-learning and exam related processes. • 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

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	Mechanical Engineering	129	127	98.44
628137210	BE	Electronics and Telecommunication Engineering	131	128	97.70
628161210	BE	Computer Engineering	203	198	97.5
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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://mescoepune.org/Students_satisfaction_survey_2019-2020_.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
Minor Projects	0	0	0	0
Major Projects	0	0	0	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
Ethical Hacking	Computer Engineering	17/07/2019
Opportunities after Graduation	Computer Engineering	04/07/2019
Big Data	Computer Engineering	01/10/2019
Entrepreneurship Skills	Computer Engineering	03/10/2019
Advance Computer Network	Computer Engineering	16/10/2019
JALTAP, Japanese Language Association	Computer Engineering	08/01/2020
Career Guidance	Computer Engineering	28/01/2020
Online Guest Lecture on Importance of BE project and project Management	Computer Engineering	14/04/2020
Online Guest Lecture Cloud Computing	Computer Engineering	30/05/2020
Interview Preparation	Computer Engineering	19/05/2020
Career Guidance in ERP/SAP	Computer Engineering	12/05/2020
Ethical Hacking Workshop for Beginners	Computer Engineering	01/05/2020
One week FDP on the topic of "Data Science"	Computer Engineering	24/08/2019
One week FDP on the topic of "Cyber Security"	Computer Engineering	28/09/2020
Two days-Workshop on Python and Machine Learning	Computer Engineering	11/03/2020
Guest Lecture on "Discrete Fourier Transform and applications of DSP"	Electronic and Telecommunication	13/08/2019
Guest Lecture on "Natural Language Processing"	Electronic and Telecommunication	19/09/2019

Techno-hunt and Google charades – Technical event	Electronic and Telecommunication	10/02/2020
4 Days Workshop on Ideation and Entrepreneurship in IOT"	Electronic and Telecommunication	08/03/2020
Guest Lecture on Power of Mind	Mechanical Engineering	26/08/2019
Guest Lecture on Making Career in Domain- Start Better Grow Faster	Mechanical Engineering	30/08/2019
Installation Program of MESCoE ISHRAE Student Chapter and Technical Talk	Mechanical Engineering	30/09/2020
Guest Lecture on Heating Load Calculations of Air-Conditioning Plant	Mechanical Engineering	30/01/2020
Industrial Visit at Parvanti Pumping Station, Near Ramkrishna Math, Sinhgad Road, Pune	Mechanical Engineering	25/09/2019
Industrial Visit at Ujjani Hydro Power Station, Bhimanagar, Madha, Solapur.	Mechanical Engineering	14/09/2019
Industrial Visit at Parvanti Pumping Station, Near Ramkrishna Math, Sinhgad Road, Pune	Mechanical Engineering	01/10/2020
Industrial Visit at Jai Jinendra Cold Storage Plant, Wadki Naka, Saswad road, Pune	Mechanical Engineering	25/02/2020
Industrial Visit to Mahindra and Mahindra Vehicle Plant, Chakan, Pune	Mechanical Engineering	24/02/2020

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
NIL	NIL	NIL	Nill	NIL
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nill
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
Computer	2
Electronics and Telecommunication	1
Mechanical	1
First year Engineering	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	Computer	41	5.59
International	Mechanical	19	2.25
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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
First year Engineering	3
Mechanical	1
Electronics and Telecommunication	1
Computer	7
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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
Nill	Nill	Nill	2020	Nill	Nill	Nill
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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
NIL	NIL	NIL	2020	Nill	Nill	NIL
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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	Nill	176	123	83

Presented papers	65	Nill	Nill	Nill
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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
Information mentioned in the file attached	Information mentioned in the file attached	86	1082
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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
Students development-Earn and Learn Scheme	Pune City Zonal Best College Award	Savitribai Phule Pune University	47
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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 activites	Number of students participated in such activites
Swachh Bharat Abhiyan	NIL	Empowerment of Woman by the art of thinking under the Nirbhya Kanya Abhiyan, -13/02/2020	5	110
Swachh Bharat Abhiyan	NIL	Mass Swachh Pledge under Swachh Bharat Abhiyan, 16/01/2020	20	150
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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
NIL	NIL	NIL	0
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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	Name of the	Duration From	Duration To	Participant

	linkage	partnering institution/ industry /research lab with contact details			
0	NIL	NIL	Nill	Nill	0

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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
NIL	Nill	NIL	Nill

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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
15850000	4303631

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	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 patially)	Version	Year of automation
SLIM 21	Fully	Version - 3.7.01.22189	2007

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	36454	13582557	490	261345	36944	13843902
Reference Books	2302	3569644	5	1342	2307	3570986

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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. A. D. Dhawale	All to One Reduction Algorithm on Hypercube (3 Dimensional)	YouTube	24/08/2019
Prof. A. D. Dhawale	All to All broadcast on 8 Node Ring	YouTube	24/08/2019
Prof. A. D. Dhawale	All to All Broadcast on 8 node Hypercube	YouTube	24/08/2019
Prof. A. D. Dhawale	Scatter Operation on 8 node Hypercube	YouTube	24/08/2019
Prof. A. D. Dhawale	All to All Broadcast on Mesh Algorithm	YouTube	23/09/2019
Prof. A. D. Dhawale	Prefix Sum one to all personalized Communication on Hypercube	YouTube	23/09/2019
Prof. A. D. Dhawale	Max Flow and Min Cut Theorem Transport Network Flow Example Solution	YouTube	25/11/2019

[View File](#)

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	230	0	0	0	0	230	0

Total	1039	20	300	1	1	1	4	300	0

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

300 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	[NIL]()

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 incurredon maintenance of physical facilites
31743322	9750854	13515000	5493075

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. Classroom: 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 fulfil 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 upgradation 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://mescoepune.org/facilities.php

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
Financial Support from institution	NIL	0	0
Financial Support from Other Sources			
a) National	Government of India post matric s cholarship/freeship / EBC	1204	82868949
b)International	NIL	Nill	0
View File			

 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
Yoga and Meditation for stress management (In induction program)	13/08/2019	404	Yoga teacher, Mr .K. Khandekar
View File			

 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
2019	Guest Lecture on Power Of Mind	Nill	70	Nill	Nill
View File					

 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		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Persistent	76	8	NIL	Nill	Nill
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	1	ENGINEERING	MECHANICAL	IIM Ranchi	MBA
2020	1	ENGINEERING	MECHANICAL	SPPU	M.tech in atmospheric space science
2020	1	ENGINEERING	E & TC	Zeal Education Society's Zeal College of Engineering & Reserch, Narhe, Pune , SPPU	Post Graduate in VLSI and Embeded Systems
2020	1	ENGINEERING	E & TC	Dublin Business School, Bublin, Ireland, UK.	MSc Information Systems with Computing
2020	1	ENGINEERING	E & TC	Manipal institute of technology	M. Tech
2020	1	ENGINEERING	E & TC	Seven Mentor & Trainning PVT. Ltd. And Group of Companies	Certification Courses
Nill	1	ENGINEERING	E & TC	Modern education society's college of Engineering, Pune, SPPU	ME in Signal Processing
No file uploaded.					

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
CAT	1
GRE	1
Any Other	1
Any Other	1
Any Other	1
No file uploaded.	

Activity	Level	Number of Participants
5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year		
Battle of Epochs	Inter College	63
HackOverFlow 1.0	Inter College	128
COUNTER STRIKE	Inter – college Competition under PHOENIX-2k19-20	9
TECHNO TREASURE HUNT	Inter – college Competition under PHOENIX-2k19-20	37
LITROFEST	Inter – college Competition under PHOENIX-2k19-20	22
ELEVATOR-PITCH	Inter – college Competition under PHOENIX-2k19-20	19
TECH QUIZ	Inter – college Competition under PHOENIX-2k19-20	11
HOOKUP	Inter – college Competition under PHOENIX-2k19-20	32
CAD War	Inter – college Competition under PHOENIX-2k19-20	22
Lathe War	Inter – college Competition under PHOENIX-2k19-20	22
[View File](#)		

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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	1st rank for representing Maharashtra team in NCC camp All India Vayu Sainik Camp (AIVSC) 2019 held in Jodhpur	National	1	1	71818226L	Mr. Raj Hariharan
[View File](#)						

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

Following activities were conducted during A.Y. 2019-20. 1. CYGNUS 2019(ETSA) Departmental fest named CYGNUS was organised by ETC Student's Association on19th and 20th September, 2019 at Modern Education Society's College of Engineering. The event was inaugurated by Principal Dr. A A Keste followed by ribbon cutting ceremony. The fest consisted of 10 events in total. They were broadly categorized into Technical and non-Technical events respectively. Technical events were related to more of academics combined with games, whereas non-technical events were for pure fun and recreational purposes. 2.INERVE 2020 Tecnical and Non Technical Events under ETSA. A Departmental fest named INNERVE was organised by ETC students' association on 10th February 2020 at Modern Education Society's College of Engineering Pune-01. The event was inaugurated by Principal by ribbon cutting ceremony. The fest consisted 7 events in total 3 technical and 4 Non-technical. They were classified as technical and non-technical events . Total 254 students participated in this activity.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

"Alumni association of Modern Education Society's College of Engineering Pune" is registered on 14 June 2019 with registration number "MH/929/2019/Pune".

5.4.2 – No. of enrolled Alumni:

63

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

MES College of Engineering had organized the Alumni Meet on 11th Jan 2020 (Saturday) in Seminar Hall 509. Total 101 alumni from all branches attended the alumni meet. The Alumni started arriving in the college by 9.00 a.m. The Alumni Meet started with the Sarswati Pujan. Our Principal Dr. A.A.Keste welcomed all the dignitaries and all the alumni for responding to the invitation from college and being present for the alumni meet in spite of their busy schedule. Sir, then informed the various milestones reached by the institution in the past year. Mr.Surabh Shah(Member of MESCOE Alumni Association) , Mr.Jasveer Singh (Member of MESCOE Alumni Association) addressed the gathering by sharing their experience. Dr.Kanchan Tiwari was our host for the entire program. The Cultural programs were presented by the TE and BE students. The vote of thanks was presented by Dr.Sharmila K. Wagh. After group photos of respective department ,the Alumni proceeded for lunch. After Lunch, the Alumni visited their respective departments and were very keen to see the developments that has taken place. They then proceeded to interact with BE students regarding their projects. BE students presented the poster and interact with alumni.

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)

. Budget preparation • For every financial year, the HOD of four departments requests all the Lab-In-Charges to list the requirement of equipment/materials/software, etc. Lab-In-Charges considers various factors

such as expected syllabus change, out of syllabus contents, the status of available equipment/materials/software, and gives an estimated budget. • 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 the Principal for approval. • After approval from the Principal budget, the allocation is done. • The Principal also prepares a budget that includes the estimated salary, maintenance cost, etc. It is presented to the authorities for approval 2. Academic calendar • Savitribai Phule Pune University declares an academic calendar for two semesters. In compliance with that, all departments schedule the academic calendar of each semester • The academic calendar is prepared by all the departments before the commencement of the semester and compiled for the institute level. In-charges are selected at the institute level as well as departmental level who conduct meetings as per requirement weekly/fortnightly/monthly to take the review. • It is an information source and planning document for faculty and department as a whole. The calendar includes timelines for various activities/events, exam dates, and more. • All In-charges are selected at the institute level and HODs hold a weekly meeting with the Principal. The academic calendar is continuously monitored and well-executed. • Student academic calendar is prepared and circulated which has content directly related to students such as exam dates, holidays, activities, 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	• The Board of Studies (BoS) appointed by SPPU has the responsibility to prepare the curriculum of the program. It also formulates course objectives, outcomes, and contents. • The institute follows the curriculum design prepared by Savitribai Phule Pune University (SPPU). • The final year engineering curriculum of SPPU includes elective subjects for the program. These subjects provide exposure to the students to modern and advanced trends. • Faculty organize/participate in syllabus revision workshops. • Faculty members are acting as chairman for different courses mentioned in the syllabus and actively involved in paper setting.
Teaching and Learning	• The institute is affiliated with Savitribai Phule Pune University, Pune (Maharashtra - INDIA). The program curriculum is as per the scheme and syllabus of the affiliated university. • Well-qualified and experienced faculty is recruited as per AICTE and DTE guidelines. The faculty members use

	suitable modern techniques and tools for effective instructional delivery. To bridge the curricular gap contents beyond the syllabus are taught by the faculty members. • Emphasis is on imparting skills through laboratory experiments and various skill development Programmes. • The course outcomes are measured by various tools such as internal tests, on-line examinations, assignments, course exit surveys, result analysis, different activities like Baja, Robo-club, etc. • Due to pandemic COVID 19, the lectures are conducted online using zoom, google meet etc.. • Practicals are also conducted using a virtual laboratory.
Examination and Evaluation	• University examinations are scheduled as per guidelines by Savitribai Phule Pune University. • The time table is displayed on the notice board for students. Faculty participate actively in conducting university theory as well as the practical examination. • The evaluation process is carried out at the university level. Internal tests are conducted with planning and preparation. Marks are shown or communicated to students through parent-teachers. • Continuous assessment of student performance is carried out through tests, assignments, seminars, and projects. • Due to pandemic COVID 19 internal tests, oral exams were conducted on-line format.
Research and Development	• R D cell has been established at the institute level. This cell sponsors projects for many final year students. • Faculty are encouraged for research-related activities. • Dr. R.A. Khan and Dr. A.P. kale from the Computer department completed their PhDs in 2019-20. • Dr.R.S.Kadam from the ETC department completed her Ph.D. in 2019-20.
Library, ICT and Physical Infrastructure / Instrumentation	• A Library committee has been established at the departmental level. • The library has a separate Digital Library with 20 PCs for scanning online journals and NPTEL lecture videos. • NPTEL Lecture Videos – 18030 • Online Journals • Science Direct 275 • IEEE ASPP POP 224 (ASPP - Journals) 1314 (POP - Proceedings) 1538 (Total) • ASME 31 • Print Journal 60 • General Reading Magazines 19 • News Papers 11

Human Resource Management	• The Institute understands the importance of its human resources. • Employees are valued and their needs are well-perceived. • Service rules are made transparent and the employees are entitled to benefits such as Provident Fund, Gratuity, and Group Insurance Scheme, etc. • The faculties and staff are given other benefits like casual leave, maternity leave, medical leave, earned leave, and vacation according to rules laid down in the statutes of SPPU. • The training programs are arranged by the institute. The staff is deputed to others for attending programs for enhancing skill set. • The Institute has a well-structured and effective selection procedure, systematic performance appraisal system, and promotion policies.
Industry Interaction / Collaboration	• Industrial visits are arranged to encourage industrial interaction. • The faculty from the ETC department attended ICT Bridge 2020 at Grant Sheraton Hotel in January 2020. • ETC department also organized a four-day workshop on 'Ideation and Entrepreneurship' in IoT. • The institute has signed various MoUs with renowned industries. Various co-curricular activities such as guest lectures, Industrial visits, students' development programs, etc. are organized under these MoUs. • Institute in collaboration with ICT Academy has conducted the following activities- ? Faculty Development programs (OFFLINE) - 09 faculties Trained under various Technologies ? Faculty Development programs (ONLINE) - 13 faculties Trained under various Technologies ? Skycampus Webinar - 19 Faculties have Actively participated ? National Communication Skill Challenge - 100 Students Received License Key to Undergo free Assessment towards THE STEP HINDU program. ? New India Learnathon - 378 Students Participated in New India Learnathon and Completed the Certification ? Virtual Power Seminar - 92 Students participated in Virtual Power Seminar on the Topic Gearing UP for the JOBS of Tomorrow ? ICT Academy Bridge 2020 - 14 faculties Participated in the Flagship event ? Youth Talk Registration - 29 Students Registered and participated ? Certification on Digital teaching

	Techniques - 15 faculties actively participated
Admission of Students	• The institute follows the 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 maintains transparency in the procedure. • All the applications received at the institute level are processed and filled on a merit basis.

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

E-governace area	Details
Planning and Development	• The library is fully automated using SLIM web OPAC software. Books are issued through a barcode and scanner system using SLIM software. • Online teaching as part of e-governance is adopted successfully given COVID-19 affected semesters.
Administration	• Communication with faculty and non-teaching through emails • CCTV System • BioMatrix Attendance System • Microsoft team – online meeting during COVID-19 pandemic situation.
Finance and Accounts	• Tally Aspire software is used for handling all accounting processes
Student Admission and Support	• The centralized Admission process is carried out as per guidelines by DTE. • Cancellation of admission and refunding of fees as per guidelines provided by the Maharashtra government.
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
2020	NIL	NIL	NIL	Nill
No file uploaded.				

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	Title of the administrative training programme organised for	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)

	teaching staff	non-teaching staff					
2020	Information mentioned in the attached file	No programme for non-teaching staff	19/08/2019	28/09/2019		140	Nill

View File

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 development programme	Number of teachers who attended	From Date	To date	Duration
Information given in the file attached	183	19/08/2019	17/06/2020	83

View File

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
58	29	64	5

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• Loan facility for credit society, • Training Program • Extended Maternity Leave	• Loan facility from the credit society • Training Program, • Uniform	• Provides Platform to get the various scholarship • Medical Check-ups • Training Programmes • Earn Learn scheme

6.4 – Financial Management and Resource Mobilization

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

• A qualified chartered accountant conducts a quarterly internal financial audit. • Various expense heads such as fees collected, staff salaries, purchase, repair maintenance, etc. are checked. • The queries raised by auditors are satisfied by the concerned staff.

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
Details are given in the file attached	320255	Students workshops and competitions

View File

6.4.3 – Total corpus fund generated

5500000

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	NIL	Yes	The internal academic monitoring committee-
Administrative	No	NIL	Yes	MESCOE

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

• The institute has a parent-teacher scheme. Parent-teacher is assigned to every student who monitors student's attendance and overall performance of students and gives advice whenever necessary. • Every department organizes parents to meet every semester. Generally, the meetings are held as scheduled in the academic calendar. In these meetings, parents are informed about various accreditation processes and they are actively involved in discussion with members visiting for the accreditation process. • In first-year engineering (FE) extensive induction program was conducted in August 2019. The parents were also involved and were informed about the various activities in the first year.

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

NIL

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

• The computer department was accredited by the 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 is being implemented.

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
2020	IQAC meeting	25/11/2019	25/11/2019	25/11/2019	10
2020	NBA Accreditation	12/10/2020	12/12/2020	13/12/2020	1000
View File					

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	Period from	Period To	Number of Participants

programme			Female	Male
Savitribai Phule 189th Jayanti Program at Sevak Vihar University Campus Bhide Wada	02/01/2020	02/01/2020	5	5
Empowerment of Woman by the art of thinking under the 'Nirbhya Kanya Abhiyan'	13/02/2020	13/02/2020	110	Nill

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
Water Harvesting: At campus Rain Water Harvesting done. Alternate Energy initiatives: 3KW - Roof top -Solar Power system is designed-assembled -successfully installed by faculty and staff of MESCOE. This was a pilot project , towards green energy initiative on Wadia college Campus Pune. Environmental Consciousness : 1.NSS Special Winter Camp 2019-Padavi Village, Tal: Daund from 23.12.2019 to 29.12.2019 with 26 NSS Volunteers of MESCOE with tree plantation at village. 2. Shramsanskar Shibir under the Swachha Swasth Bharat Abhiyanon on 9.8.2019 with 7 NSS Volunteers. 3. Tree Plantation at Wagholi Campus on 21.9.2019 with 50 NSS volunteers. 4. River Cleanliness Drive-Mahatma Gandhi 150th Jayanti on 2.10.2019 with 60 NSS volunteers.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nill
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Special skill development for differently abled students	No	Nill

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

2020	1	1	17/01/2020	1	Career Guidance Session at Smt. Shantabai Dhole Patil School, DP Road ,Pune	Career Guidance given to school children	12
2020	1	1	26/01/2020	1	Donation of Books to Orphanage at Punarutthan Samarasta Gurukulam Aadiwasi Aashram, Chinchwad	150 books donated	50

No file uploaded.

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 (Handbook)	Nill	As per SPPU

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga Day 2019	21/06/2019	21/06/2019	100
Fit India Movement	29/08/2019	29/08/2019	180
Guest Lecture on Dr. Baba Amte -Timeless Inspiration	18/09/2019	18/09/2019	70
Fire Safety Training	11/10/2019	11/10/2019	50
Mass Swachh Pledge under Swachh Bharat Abhiyan	16/01/2020	16/01/2020	150
Blood Donation Camp	31/01/2020	31/01/2020	126

No file uploaded.

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

1. Water Harvesting: At campus Rain Water Harvesting done. 2. Alternate Energy initiatives: 3KW - Roof top -Solar Power system is designed-assembled -successfully installed by faculty and staff of MESCOE. This was a pilot project , towards green energy initiative on Wadia college Campus Pune. 3.NSS

Special Winter Camp 2019-Padavi Village, Tal: Daund from 23.12.2019 to 29.12.2019 with 26 NSS Volunteers of MESCOE with tree plantation at village. 4. Shramsanskar Shibir under the Swachha Swasth Bharat Abhiyanon on 9.8.2019 with 7 NSS Volunteers. 5. Tree Plantation at Wagholi Campus on 21.9.2019 with 50 NSS volunteers. 6. River Cleanliness Drive-Mahatma Gandhi 150th Jayanti on 2.10.2019 with 60 NSS volunteers.

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 relationships with the corporate world through MoUs, Centre of Excellence, sponsored projects, industrial visits and in-plant training for students and faculty members. 3. The Context Institution has taken initiative to interact with various industries through the Industry Institute Interaction committee that maintains professional relations with industries. 4. The Practice Under this, following practices are performed 1. Membership of Professional Technical Bodies (ASHRAE, SAE, ASME,CSI,IETE) 2. MoU with industries (Baker Gauges India, IFS Academy,CSI,ICT Academy) 3. Lab development under Center of Excellence(NI Lab, Tribo Lab, Baker Gauges Lab, TechNex, JALTAP, Sapours, StackZeal, ICT) 4. Industrial visit, 5. Guest Lecture, 6. Promotion to do internship and industry sponsored project for students 7. Curriculum development at par with industry requirement 5. Evidence of Success 1. Membership of Professional Technical Bodies : a. Faculties and students are encouraged to take membership of professional societies. In this year membership of SAE, ASHRE were taken by faculty of the mechanical department. CSI by Computer Engineering and IETE by ETC Engineering. 2. MoU with industries (Baker Gauges India.IFS Academy,CSI,ICT Academy) a. Institute formed MoU with ICT academy and conducted different programs under it to promote students and faculty in the area of IOT, Artificial intelligence etc. b. Institute formed MoU with TechNex Technologies Pvt. Ltd, JALTAP, Spurs Technology Pvt. Ltd., StackZeal Pvt. Ltd., ICT academy and conducted different programs under it to promote students and faculty in the various areas. 3. Lab development under Center of Excellence(NI Lab, Tribo Lab, Baker Gauges Lab, Advanced Manufacturing, TechNex, JALTAP, Sapours, StackZeal, ICT,HPC) a. New version with additional tool of MATLab were purchased for Software Lab b. Maintenance and additional lab equipment were purchased for different labs. c. MODROB proposal under AICTE Scheme were filled for upgradation of CAD/CAM lab to facilitate it for 3D Printing Technology 4. Industrial visit a. Industrial visits were organised for Mechanical Engineering students to different industries and government establishments e.g. Mahindra and Mahindra Pvt Ltd. Chakan, Cold Storage Plant etc. in Semester I II. b. Industrial visit to Persistent Systems, Hinjewadi, Pune organized on 14.02.2020 for TE Computer students to enhance interpersonal skills and communication techniques. c. Industrial visit to Giant Metrewave Radio Telescope (GMRT) at Khodad, Pune on 28.02.2020 for SE Computer students to make students aware of industry standards, career opportunities, and product development life cycle. d. Industrial visit at Chheda Electricals and Electronics Pvt.Ltd. on 14th Feb 20 and Bhira Power Plant 7th Feb. 20 for ETC students. e. Some scheduled visits like visits to Tata automotive and Power plant were cancelled due to COVID 19 5. Guest Lecture a. Total 6 Guest lectures by eminent personalities from central research facilities and insytries were conducted e.g Guest on sustainable environment, emission and alternate energy sources. b. Total 13 Guest lectures by eminent personalities from central research facilities and industries were conducted in the Computer Engineering Department on Ethical Hacking etc. c. Total 2 Guest lectures by eminent personalities from central research facilities and industries were conducted in ETC Engineering Department on National language processing etc. 6. Promotion to do internship and industry

sponsored project for students 7. Four projects from the mechanical department, 5 projects from ETC and 3 projects from Computer department were sponsored projects by industries. 8. Curriculum development at par with industry requirement a. Faculty from Mechanical Dept.,Prof. Dr. V. N. Chougule participated in the structure revision process of SE Mechanical Program and introduced new courses like Geometric Drawing Tolerance which were designed in collaboration with industry needs. b. Faculty from Computer Dept., Dr. (Mrs.) N. F. Shaikh, Dr. (Mrs.) R. A. Khan, Dr.(Mrs.) S. K. Wagh, Dr. (Mrs.) J. R. Pansare, Dr.(Mrs.) A. P. Kale, etc. participated in the structure revision process of SE Computer Program and introduced new courses like Computer Graphics, Humanities and Social Science, Object Oriented Programming, Principles of Programming Language, Data Structure respectively which were designed in collaboration with experts from other colleges of SPPU as per industry needs. c. Dr.(Mrs.)Manisha P. Dale was selected as a member of committee by SPPU to design syllabus of SE (ETc) Data Structure subject. Also Dr. P.N.Kota worked as member of syllabus design committee SPPU for the subject DC-SE ETC. 6. Problems Encountered – Due to COVID pandemic, a. Many scheduled activities like industrial visits, guest lectures,STTPs etc were cancelled b. Manufacturing /Fabrication of students projects were suspended due to lockdown hence funds allocated for project were not utilized Best Practice II Title of Practice: Student Skill Development Activity 1. Goal: Development of students technical skill and job skills necessary for industries through Co-curricular and Extracurricular activities. 2. The Context: Co-curricular activities are significant for enriching students on an emotional, cognitive, physical, and social level. At the same time, extracurricular activities incorporating NSS, art and music can play a vital role in nation-building, psychomotor development and dexterity. 3.The Practice: Under this, following practices are performed 1. Formation Different Student Chapter (ASME, SAE, ASHRE,ACE,IETE) 2. Promoting and Financial Support to students to participate in different national and international competitions (M-BAJA, E-BAJA, RoboCon,SIH 2020) 3. Co-Curricular and Extra Co Curricular Activities 4. Development of a lab with the latest experimentation facility and machines. 5. Latest software and computing facility as per and beyond curriculum for academic development (MatLab, Ansys, etc.) 6. Support for Internship and Sponsored Project 7. Provision of E-content for advance Learning (NPTEL, video Lectures) 3. Evidence of Success Following activities were performed in AY 2019-20 as part of student skill development practice 1. Formation Different Student Chapter (ASME, SAE, ASHRE,ACE,IETE) a. SAE Student chapter is formed under which student were financed and motivated to participate in events like M-Baja which is Multi Terrain vehicle making competition and E-Baja which electric vehicle making competition to enhance students technical skill, build teamwork, leadership and presentation skill, Institute continuously support students to participate in such competition for from Year 2012. Special provision in department Budget is made for manufacturing vehicles under M-BAJA and E-BAJ. Secured an overall 14th rank amongst 120 participants b. ASHRE, a students chapter is formed to promote students interest in the area of Refrigeration and Air conditioning and also enhance their knowledge about this core area of mechanical engineering. . c. Initiative is started to form ASME student chapter to increase students interest in Mechanical engineering by conducting different activities d. Students are encouraged to take membership of Professional Technical bodies. In this year 62 Students enrolled in IETE membership e. ACE Event "ALPHA QUEST 2019" has been organized on 24.09.2019 to develop the ability to express ideas through oral communication. The AlphaQuest 2019 is an Intra-Collegiate event which includes the following 14 events. f. ACE Event "Quarantine Digital Renaissance 2020" has been organized on 24.09.2019.Inline with it's name it is truly a renaissance amidst the lockdown to help everyone utilize their time and sharpen their skills. It's time to say goodbye to the lockdown boredom as everyone participates in the Quarantine Digital Renaissance 2020. Prizes for

this national level event are sponsored by TechNex Harvestgrid Pvt Ltd, Pune and registration is completely free. 2. Co-Curricular and Extra-Curricular Activities a. Different Co-Curricular Activities under MESA Technical Event "PHOENIX-2k19-20" were conducted to develop different technical and life skills like teamwork, presentation, stage daring, leadership soft skills etc. b. Different days were conducted to promote awareness about social issues like environment and brotherhood in students e.g. Independence Day, Swachha Swasth Bharat Abhiyan (Shramsanskar Shibir) etc. c. Different Co-Curricular Activities under ACEMESA Technical Event "ALPHA QUEST 2019" were conducted to develop different technical and life skills like teamwork, presentation, stage daring, leadership soft skills etc. d. ETS Association "Cygus 2019" has been organized on 19th and 20th September 2019. The fest consisted of 10 events in total. They were broadly categorized into Technical and Non technical events to enhance student's technical and non technical skills. e. ETSA group "INERVE 2020" was organized on 10th Feb.2020 which contained technical and non- technical activities. It consists of 7 events to help everyone utilize their time and sharpen their skills. 3. Development of a lab with the latest experimentation facility and machines. a. Labs were provided with latest software and instrument to give students facility to do their interest research area and also provide correct experimentation reading hence helping them to correctly correlate the theory and practical knowledge b. CMM machine were purchased for Advanced Manufacturing Lab so student will get chance to witness and understand the advance manufacturing process' c. Latest version of MATLab were purchased with additional tool for simulation 4. Support for Internship and Sponsored Project a. Institute allocate special budget to finance students project to promote students innovative ideas in the form of projects b. Department gives special permission to attend and complete internships and support them by providing relaxation in attendance criteria. c. Computer Students participated and received achievement in Smart India Hackathon 2020 (SIH-2020)-Total 18 Teams have participated for SIH 2019.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
http://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 is 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 skill development, ethical and human value development , with the trust of academic and technical excellence . Achievements: Mechanical 1. Prof. A. R. Patil has been invites as Session Chair for ASME POWER Conference 2019 at Salt lake City, Utah, USA 2. Prof. A. R. Patil has received a International Travel Grant of 175000/- to attend ASME POWER Conference 2019 at Salt Lake City, Utah, USA 3. Prof. Dr. A. A. Keste and Prof. Dr. S. H. Gawande has attended and presented paper at ASME Expo Conference 2019, USA 4. Prof. R. N. Yerrawar successfully defended his PhD Thesis and awarded Doctoral Degree from Savitribai Pune University 5. Prof.B.D.Nandre successfully defended his PhD Thesis and was awarded Doctoral Degree from North Maharashtra University,Jalgaon. 6. TE Mechanical Students Mr. Raj Hariharan and Miss. Dipti Patil got 1st rank for representing Maharashtra team in NCC camp All India Vayu Sainik Camp (AIVSC) 2019 7. TEAM GYRFALCONS (BAJA Team) secured overall 14th rank amongst 120 participants 1. Computer 1. Dr. (Mrs.) N. F. Shaikh invited as Session Chair at the "International Conference on Future Intelligence in Science and Technology-SITSFIST" on 31st May 2020 organized by Sinhgad

Institute of Technology and Science, Narhe, Pune 2. Dr. (Mrs.) R. A. Khan completed Ph.D. in Computer Engineering from J.J.T University Rajasthan on 20 th October 2019. Research Title Speech Synthesis for Hindi Language using reduced size database and improved naturalness. 3. Dr. (Mrs.) R. A. Khan delivered an expert session on Business Communication Skills Laboratory at the FDP organised by I2IT on 7th July 2020. 4. Dr. (Mrs.) S. K. Wagh invited as an Expert Speaker for FDP on Digital Forensic at AISSMS Poly,Pune.16th Jan 2020. 5. Dr. (Mrs.) S. K. Wagh invited as Session Chair at the IEEE International conference ESCI 2020 (2nd IEEE International Conference on Emerging Smart Computing and Informatics) organized by AISSMS IOIT Pune 13th March 2020. 6. Dr. (Mrs.) J. R. Pansare worked as mentor for the team "BootUp" achieved second position in SIH 2020. 7. Dr. (Mrs.) J. R. Pansare written Published a Book entitled Human Computer Interaction for BE VIIIth Semester based on SPPU syllabus along with TechKnowledge publisher. 8. Dr. (Mrs.) J. R. Pansare written and published a Book entitled Human Machine Interaction for BE VIIIth Semester based on Mumbai University syllabus along with TechKnowledge publisher. 9. Dr. (Mrs.) A. P. Kale awarded with Ph.D. degree in Computer Science and Engineering on the topic of "IMPLEMENTATION OF NEURAL NETWORK BASED PATTERN CLASSIFICATION BY IDENTIFYING PROMINENT FEATURE SUBSET" from Walchand College of Engineering Sangli, Shivaji University Kolhapur Maharashtra on 16th December 2019. 2. ETC a. Dr. (Mrs.) Rekha. S. Kadam awarded with Ph.D. degree in Electronics and Telecommunication Engineering titled "Design of Reconfigurable Antenna for Portable Devices " from SCoE, Pune, SPP University, Pune.

Provide the weblink of the institution
http://mescoepune.org

8.Future Plans of Actions for Next Academic Year

1. To accelerate research activities by motivating the staff for more publications, patents, innovations, research grants, etc. 2. To make students interested to conduct experiments which help them in learning basic and advanced concepts through virtual experimentation, the college become VLab nodal center. This activity is initiated by IITs and MHRD. 3. To initiate Internship activities by involving faculty as well as through developing industry-institute interaction. 4. To promote innovation related activities amongst students and staff through Institution's Innovation Cell (IIC). 5. Development in-line with the National Education Policy 2020 (NEP-2020). 6. To promote entrepreneurship development, startup activities by involving alumni and successful entrepreneurs in the society. 7. To organize skill development/training programs for Non-Teaching Staff. 8. To apply for NAAC Cycle-II. 9. To apply for further NBA accreditation for Electronics and Telecommunications and Mechanical department. 10. To apply for ARIIA and NIRF Ranking. 11. To motivate staff for pursuing MOOCs courses. 12. To motivate students and staff for pursuing Courses from COURSERA, ISRO IIRS training (IIRS OUTREACH Program) 13. To register for National Digital Library of India Project. 14. To motivate staff and students to register for IIT Bombay Spoken Tutorials.