



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	
JAYAWANT SHIKSHAN PRASARAK MANDAL'S IMPERIAL COLLEGE OF ENGINEERING AND RESEARCH	
Name of the head of the Institution	Dr. Dilip D. Shah
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02067335102
Mobile no.	8669605815
Registered Email	iqac.icoer@gmail.com
Alternate Email	principal@jspmicoer.edu.in
Address	Gat No. 720(1/2) Pune Nagar Road
City/Town	Pune
State/UT	Maharashtra
Pincode	412207

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		private			
Name of the IQAC co-ordinator/Director		Dr. Parul S Arora			
Phone no/Alternate Phone no.		02067335100			
Mobile no.		9011887666			
Registered Email		iqac.icoer@gmail.com			
Alternate Email		iqac@jspmicoer.edu.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		<a href="https://www.jspmicoer.edu.in/naac_aqar.php">https://www.jspmicoer.edu.in/naac_aqar.php</a>			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		<a href="https://jspmicoer.edu.in/pdf/Academic%20Calendar%202018-19.pdf">https://jspmicoer.edu.in/pdf/Academic%20Calendar%202018-19.pdf</a>			
5. Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A	3.05	2017	30-Oct-2017	29-Oct-2022
6. Date of Establishment of IQAC			08-Oct-2016		
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	

Incorporated new pedagogy for teaching and learning process	03-Sep-2018 2	384
Course-file Grading	17-Dec-2018 1	179
Project work from SE/TE	17-Dec-2018 1	522
NBA initiative- CO PO awareness	18-Jun-2018 2	2119
Training and development cell	20-Mar-2019 1	300
Academic monitoring and Audit-APR	18-Jun-2018 2	179

**8. Provide the list of Special Status conferred 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
Civil Engineering	QIP	Savitribai Phule University Pune	2018 6	90000
Mechanical Engineering	QIP	Savitribai Phule Pune University Pune	2018 6	200000
Civil Engineering	ASPIRE	Savitri bai Phule Pune University	2018 1	200000
Mechanical Engineering	ASPIRE	Savitri bai Phule Pune University	2018 1	190000
No Files Uploaded !!!				

**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 :**

2

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**

No

during the year?

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

To upgrade the quality of teaching and learning material, Course file grading system is incorporated In order to make students study regularly IQAC initiated Regular test and assignment at FE department Lecture monitoring by Dean Academics and the corrective action is suggested by IQAC. In order to improvise the students personality, communication skill, presentation skill and leadership quality IQAC constituted TND cell (Training and development cell). This cell is responsible for improving the communication skill, personality and leadership quality by arranging Student parliament competition, Group discussions, Personal interview practice sessions etc

[View File](#)

**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	Achievements/Outcomes
Preparation and Implementation of Institutional Academic calendar and departmental academic calendar	All the activities, unit tests, assignments, examinations, submissions are implemented timely
Academic monitoring	Academic monitoring Quality of lecture delivery improved consistently, additional counselling to the faculty members when required
Academic Audit	Timely checking of course file and resource material prepared by the faculty members implemented
Course file Audit	Quality Resource material is generated which is useful for the students
Administrative Audit	Well-Organised and updated central and principal office files
<a href="#">View File</a>	

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

Yes

Name of Statutory Body	Meeting Date
Governing Body	05-Jun-2019

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

Yes

Date of Visit

25-Sep-2017

<b>16. Whether institutional data submitted to AISHE:</b>	Yes
Year of Submission	2018
Date of Submission	24-Jan-2019
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>MOODLE: Moodle is an acronym for Modular ObjectOriented Dynamic Learning Environment. It is an educational platform that provides learning environments for students. Faculty use Moodle to create lessons, manage courses and interact with faculty and students. Students use Moodle to review the class calendar, submit assignments, take quizzes and interact with their classmates. Faculty upload the learning resources like Video lecture links, notes, PPT, Gap analysis etc. The faculty uploads their lectures/ notes on Moodle and this helps slow learners and even for those students who are willing to promote R D work. The practice is also intended to give access of resources to the students anytime anywhere. Also through Moodle they can access the key notes and expert videos on a specific topic provided by concerned subject faculty. We have video lecture conferencing facility where faculty member deliver lecture. These lectures are recorded and made available on special moodle portal named as eNirmitee. These video lectures recording is managed and coordinated by each department separately. Moodle provides</p>

## 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

Our Institute is affiliated to SPPU and strictly follows the syllabus framed by it. The institute meticulously develops action plans for the effective implementation of the curriculum. Principal conducts meeting with all HODs and key coordinators to develop strategies for effective implementation of the curriculum. Faculty members 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. Meetings of the Principal: At the beginning of every semester Principal Conducts meeting with all Head of the departments and the entire faculty, where Principal address the faculty for effective implementation of curriculum and the same is documented well. 2. Departmental meetings by Heads of the department: At the beginning of every semester Head of the Department (H.O.D.) conducts meeting with faculty members for load distribution. Action plan for the effective implementation of further semester is discussed, finalized and documented. Course coordinators are finalized after load distribution.. 3. Faculty Development Program: The faculty members attend syllabus revision and discussion Programs conducted by Board of Studies under the University (SPPU). The Institute also conducts the faculty development program for the in-house faculty at the starting of every semester where the resource manuals for all the revised subjects are prepared. This helps to enhance the teaching learning process. 4. Action Plan for effective implementation of the curriculum: • Each department prepares academic calendar in line with the academic calendar prescribed by the institute and University. • All students are informed about the curriculum well before the commencement of term and the same is followed with some required changes to cater to the requirements of local situations if needed. • Subjects are allocated to the faculty members taking into consideration, the faculty qualifications, their subject specialization, experience and willingness. • Teaching plans and session plans are prepared by individual faculty member for the subjects they are handling, including the laboratory manual. • Detailed course files are prepared by the faculty members which includes comprehensive class notes, teaching material and PPT slides etc. • The progress of syllabus coverage is reviewed periodically and extra classes are arranged if necessary. • In addition to the curriculum, students are educated about the latest developments in their respective fields, by arranging expert guest lectures, industrial and field visits etc. • Curriculum execution is critically analyzed by Academic Monitoring Committee (AMC) and further by Dean Academics.

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
One day workshop on Data science and Big data analysis	One day workshop on Data science and Big data analysis	13/06/2018	1	Employability	Students understood applications based on ultra low power microcontrollers
NPTEL	NPTEL	15/08/2018	60	Employability	Expertise in subject
RSCSA	RSCSA	16/06/2018	60	Employability	Server administration
MSP430 Interfacing Applications	MSP430 Interfacing Applications	18/03/2019	2	Employability	Students obtained hands on experience on MSP 430 ultra lowpower mic

					rocontroller and encouraged to do academic projects
PLC training	PLC training	20/09/2018	3	Employability	Students obtained handson training of PLC, automation with IoT

## 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 Data Science & Analytics	10/12/2018
BE	Computer Engineering: Data Science and Analytics	10/12/2018
BE	Computer Engineering: Business Intelligence	10/12/2018

### 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
MBA	MBA: Marketing, Finance, Human Resource Specialization	25/06/2018
ME	ENTC: signal processing	25/07/2018
ME	computer	25/07/2018
ME	Mechanical: Heat Power	25/07/2018
ME	Mechanical-Design	25/07/2018
ME	Civil: Structures	25/07/2018
ME	Civil: Construction and Management	25/07/2018
BE	Electronics and Telecommunication Engineering	11/06/2018
BE	Computer Engineering	11/06/2018
BE	Mechanical Engineering	11/06/2018
BE	Civil Engineering	11/06/2018

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

	Certificate	Diploma Course
Number of Students	116	20

### 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
Design Development of F5 Racing Cart	20/03/2019	47
MSP430 Interfacing Applications	18/03/2019	58
PLC training	20/09/2018	30
Crowd Sourcing Participatory GIS by IIRS	21/12/2018	15
STADDPRO Workshop	28/08/2018	50
Bentley Software Workshop	03/10/2018	30
Application of HECRAS in water resource Engineering	05/10/2018	51
Hands on Training On Valuation for placement	19/12/2018	37
Bar bending Schedule An Industry Approach	28/02/2019	54
MATLAB Simulink	25/02/2019	35
PCB Designing Manufacturing Workshop	20/09/2018	50
RSCA	16/06/2018	52

#### 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: PSU Load Test Zig, Inplant Training, Bolt IoT, ACE	12
BE	Mechanical Engineering: Summer Internship	4
BE	Civil Engineering: Inplant Training	38
BE	Computer Engineering: Python and Android Programming	14

### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
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

The institute has its value based mechanism to obtain feedback on curriculum from academic peers, outgoing students, alumni, industry experts and parents.

**Student's Feedback:**

- Feedback is obtained from students as per the format prescribed by the institute.
- Verbal feedback is also taken individually by subject teachers in the class room after completion of each unit.
- Feedback is collected by Heads of the department with details of the syllabus covered.
- Principal also takes informal feedback from the students during numerous occasions.
- Feedback is also being collected by the respective GFMs on a regular basis.
- The endsemester result analysis also being taken as part of feedback process.

**Alumni Feedback:**

- Feedback from alumni with respect to curriculum relevancy is taken at the alumni meet function.
- Also the institute is in constant touch with its alumni on various social media forums. Principal and Heads of the Departments keep a constant watch on the discussions taking place about the Institution in these social networks.
- Also formal feedback is taken during their visit to the institute after graduation for reasons like collection of Certificates, Marks Cards, and Recommendation Letters etc.

**Employers / Industries:**

- The feedback from the employers and industries is taken regarding the performance of institute alumni who are working in their companies.
- The opinions and suggestions of Industry Experts / External Guides are taken into consideration while designing and implementing curriculum.

**Community/ Parent Feedback:**

- As parents form a major chunk of community who are intended in the overall growth of the institute their feedback is also taken during the regular meetings conducted with them. Corrective action based on feedback
- Based on the suggestions received from the knowledgeable parents, alumni and industry experts, internal meetings are conducted to identify the gaps in the curriculum and ways of enriching the curriculum by conducting guest lectures, seminars, and extra content.
- The library resources are updated whenever curriculum changes are made and the required equipment is procured to meet the needs.
- Soft skill, communication skill development trainings are arranged with professional agencies like GTT Barclays.

## 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	Civil Engineering	187	124	116
BE	Computer Engineering	64	64	62
BE	Electronics and Telecommunication Engineering	147	47	34
BE	Mechanical Engineering	247	135	131

### 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled	Number of students enrolled	Number of fulltime teachers	Number of fulltime teachers	Number of teachers

	in the institution (UG)	in the institution (PG)	available in the institution teaching only UG courses	available in the institution teaching only PG courses	teaching both UG and PG courses
2018	2575	239	164	15	179

## 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	Number of smart classrooms	E-resources and techniques used
179	179	31	41	6	9

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

Yes, the Students mentoring system available in the institution termed as Guardian faculty member GFM. The details are mentioned below Objectives 1. To address the concern of students, GFM works upon each and every issue related to personal and academics. This helps the students to have stress free and happy environment so that they can concentrate fully on academics. 2. To help the students to identify and solve their problems and needs time to time. 3. To extend their support by working towards the aspects like punctuality, discipline, regularity etc. for overall development and motivate the students for excellence in academic and cocurricular parts. 4. To keep a record of the students entrusted in their care the record contains information on the cultural, geographical, educational, economic and family background of the student. 5. To keep continuous track of the academic performance of each allotted student. 6. To identify the reasons for underperformance and /or decline in academic performance language barrier, under nutrition and other health issues, cultural gap, economic status, first generation learner, first time resident student Purpose: 1. To ensure availability of support and guidance to students for students development and resolving their problems. 2. To ensure holistic development of student. 3. Create point of contact for students and their parents for any information and queries. Benefits: 1. Improves communication between students and mentor for academic excellence, stress management and time management. 2. Academic Performance Monitoring. 3. Career and selfawareness among students. 4. Understanding students' academic and social problems well in advance. Duties and responsibilities of GFM 1. One teacher is nominated as 'Teacher Guardian' for fifteen students To build cordial relationship between student and faculty and to make them comfortable with the new environment. Also to help them cope up with extensive engineering curriculum pressure. The one to one interaction with the student helps the faculty members to understand them better and can monitor their progress. In this endeavor the institute has started GFM activity. GFM is assigned to a group of 1520 students, who helps the students to identify and solve their problems and needs from time to time.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2575	164	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
173	179	0	15	29

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
2018	D.P.Gadekar	Assistant Professor	Ph.D

2018	Mr. H. N. Dhanwate	Assistant Professor	Certificate of Appreciation
2018	N.P.Sable	Assistant Professor	PhD
2018	R.N.Phursule	Assistant Professor	Ph.D
2018	S.R.Todmal	Assistant Professor	Ph.D
2018	V.S. Wadne	Assistant Professor	Ph.D
2019	S.K. Bhatia	Assistant Professor	PhD

## 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	ENTC	SemesterI	05/10/2018	04/02/2019
BE	COMPUTER	Semest 1	05/10/2018	04/02/2019
BE	MECHANICAL	semester 1	05/10/2018	04/02/2019
BE	CIVIL	semester 1	05/10/2019	04/02/2019
MBA	MBA	semester 1	08/12/2018	04/04/2019
BE	ENTC	semester 2	10/04/2019	22/07/2019
BE	COMPUTER	semester 2	10/04/2019	22/07/2019
BE	MECHANICAL	semester 2	10/04/2019	22/07/2019
BE	CIVIL	semester 2	10/04/2019	22/07/2019
MBA	MBA	semester 2	15/05/2019	22/08/2019

[View File](#)

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institute is abiding to follow all major reforms initiated by SPPU. CEO takes care of all the examinations and evaluations as per university schedule university such as Theory - In semester , End Semester examinations [for TE and BE students], Online examinations, End Semester examinations [for FE and SE students ], Oral /Practical examinations [for SE, TE, and BE students]. Apart from the examination conducted by SPPU (Savitribai Phule University of Pune), the institute insists department to conduct unit wise test. Taking that practice forward, subject teachers organize test after the completion of every unit, the answers sheet evaluations is done by subject teacher. Remedial actions are taken for weak students for performance improvement which also happen in iterative manner until benchmarked result is achieved. The provisional dates for exams are declared in advance so that students can be better prepared. Academically advanced learners are encouraged to visit the library on a regular basis to supplement academic learning. The Term Work/internal marks are awarded on the basis of the performances of the students in the tests Conducted, attendance and overall class performance throughout the semester. Students are informed in advance about the evaluation methods. Students are also encouraged to perform experiments by themselves to stimulate selflearning ability and to make them independent. The students are encouraged to carry out mini projects in the area of their own interest and present technical papers in conferences which would summarize all the relevant details of their project. The guides with area of specialization, work

experience and interest is allotted to the students. This helps the student to shape out the project work in the domain of their interest. The presentation and evaluation of all activities taken place for the entire year and the outcome of the project is measured with respect to either social, RD or innovative context. Based on project quality and work efforts poured towards requirement fulfillment, one of the project groups is nominated for prize and such projects are preserved in the department.

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

At the beginning of each academic year, the SPPU gives guidelines about the dates of Commencement of the semester, End of the semester, Schedule of In Semester, End Semester, Online Examinations, Schedule of Oral Practical Examinations, Vacation schedule. ? By considering the academic calendar provided by SPPU, the Dean of academics prepares the institute academic calendar in consultation with the Principal for both UG and PG courses separately before the commencement of academics and communicate the same to each department through principal meeting. It is also displayed on the institute website. ? The departmental academic calendar is in line with the institute calendar which is prepared by the respective Academic Coordinators in consultation with the Head of the Department. ? The dates of exam, mock oral, submission, sport, industrial visit, gathering, festival holidays and many other aspects are considered while finalizing the calendar. This helps in implementation of academic activities as soon as the session starts.

## 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)

<https://jspmicoer.edu.in/pdf/PO.%20PSO%20&%20CO%20of%20All%20Programs.pdf>

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
2015	BE	Computer Engineering	118	116	98.30
2015	BE	Civil Engineering	197	189	95.94
2015	BE	Electronics & TeleCommunication	78	74	94.87
2015	BE	Mechanical Engineering	379	348	95.94

## 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)

<https://jspmicoer.edu.in/pdf/Student%20Satisfaction%20survey%202018%20-19.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	2	SPPU	2	2
Projects sponsored by the University	2	SPPU ASPIRE	1.9	1.9
Interdisciplinary Projects	1	Decimac Technologies	0	0
Industry sponsored Projects	1	Eternity Technology and Solution, Pune	0	0
Industry sponsored Projects	1	E.K.Electronics PVT.LTD, Shirur	0	0
Industry sponsored Projects	1	Global Calibration	0	0
Any Other (Specify)	1	SPPU	1	1
Any Other (Specify)	1	SPPU	5	2.5
<a href="#">View File</a>				

### 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
A one day seminar on " Patents: Drafting, Filling and Commercialization	Electronics and Tele Communication	08/09/2018
Two Days State Level Workshop on "Research Methodology, Indian Patent Drafting and Filling procedure"	Civil Engineering	11/01/2019
Bentley's STAADPro Handson workshop	Civil Engineering	16/03/2018

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
Special recognition for supporting and participation in Dindi ( NSS vari to pandharpur )	Mr. Pravin Lohote	SPPU	05/08/2019	University level

Gold Rating	Imperial College of Engineering and Research	AICTE CII Survey of Industry Linked Technical Institute	11/11/2018	National Level
Contribution towards Texas Instruments Innovation Centre	Mr. Hrishikesh Dhanavate	Texas Instruments	07/07/2018	National level

### 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
Incubation center	Incubation center	JSPM group	Pestosys	Software	09/07/2018
Incubation center	Incubation center	JSPM group	ATPOF	Software	24/08/2018

### 3.3 – Research Publications and Awards

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

State	National	International
0	66600	6000

#### 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 Engineering	6
Electronics Engineering	1
Civil 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	Electronics and Tele Communication	17	5.7
National	Computer Engineering	3	4.0
International	Computer Engineering	3	4
National	First Year department	3	5.87
International	First Year department	4	2.64
International	Mechanical Engineering	35	4.88

#### 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 Department	7

Civil Engineering	18
Mechanical Engineering	97
Computer Engineering	4
Electronics Telecommunication Engineering	17
<a href="#">View File</a>	

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
Using Waste Construction Material in paving blocks with Coir Fibre	Dr Anil Shirgire	IJIRSET	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Addition of Waste Construction Material in Paver Block with Coir Fibre	Dr Anil Shirgire	IJSRD	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
An Overview: Feasibility of Earthworm Species for Organic Waste	Prof P B Londhe	JASRAE	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
water distribution in mawadi pimpri	Prof P B Londhe	JASRAE	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Geology Aspects in Civil Structure Constructions	Dr.Navanath V.Khadake	IJET	2018	0	Associate Professor	0
India	Dr.Navanath	IRJET	2018	0	Associate	0

Needs Inter Basin Water Transfer	h V.Khadake				Professor	
A Need of Conjunctive use of Surface and Ground Water	Dr.Navanath V.Khadake	TechnoSocietal COEP	2018	0	Associate Professor	0
An Overview: Water Distribution Network by Using Water GEMS Software	R.ABinayke	JASRAE	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
An Overview: Effect of Treated Waste Water on Properties of Concrete	C.S.Chavan	JASRAE	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Smart Home Environments Utilizing AI IoT	Dr. P.S. Arora	Journal of Emerging Technology and Innovative Research	2019	0	Associate Professor, Imperial College of Engineering Research, Pune	0
Video Segmentation Review Approach	Dr. P.S. Arora	Journal of Emerging Technology and Innovative Research	2019	0	Associate Professor, Imperial College of Engineering Research, Pune	0
Review of Stress Monitoring and Detection	Dr. P.S. Arora	Journal of Emerging Technology and Innovative Research	2019	0	Associate Professor, Imperial College of Engineering Research, Pune	0
Study of neural network in	Dr. P.S. Arora	Journal of Emerging Technology	2019	0	Assistant professor, Imperial	0



video processing		and Innovative Research			College of Engineering Research, Pune	
Study of neural network in video processing	N.S.Labhadre	Journal of Emerging Technology and Innovative Research	2019	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Assessment Of Abrasion Resistance Of Concrete Pavement For Durability	Abhijit warudkar	International Journal of Civil Engineering and Technology (IJCIET)	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Experimental Study Of The Mechanical Behavior Of Aluminum Mosquito Sheet On Concrete Canvas Panels	P. K. Pasnur	IJARET	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Eco Technology for solid Waste Management	G.N.Sarangdhar	Advances in Engg. Management	2019	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Rash driving alert system	Dr. S. K. Bhatia	Journal of Emerging Technology and Innovative Research	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Assessment Of Abrasion Resistance Of Concrete	Abhijit Warudkar	International Journal of Civil Engineering and	2018	1	Assistant Professor, Imperial College of Engineering	0

Pavement For Durability		Technology (IJCIET)			Research, Pune	
Experimental Study Of The Mechanical Behavior Of Aluminum Mosquito Sheet On Concrete Canvas Panels	P. K. Pasnur	IJARET	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Eco Technology for solid Waste Management	Prof.G.N.S arangdhar	Advances in Engg. Management	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Application of RCM Methodology Modeling for Availability of the System	Dr.Sarje Suhas Hamantrao	International Journal Management Concepts Philosophy	2018	0	Professor, Imperial College of Engineering Research, Pune	0
Strategies for Buyer Supplier Relationship Improvement: Scale Development and Validation	Dr.Joshi Sarang Prakashrao	Procedia Manufacturing(Elsevier)	2018	1	Associate Professor, Imperial College of Engineering Research, Pune	0
Supplier Development Success Factors in Indian Manufacturing Practice	Dr.Joshi Sarang Prakashrao	Materials Today (Elsevier)	2018	1	Associate Professor, Imperial College of Engineering Research, Pune	0
To Examine the Relationships between Supplier Development Practices and SupplierBuyer Re	Dr.Joshi Sarang Prakashrao	Benchmarking: an International Journal, (Emerald)	2018	1	Associate Professor, Imperial College of Engineering Research, Pune	0

Relationship Practices from the Suppliers Perspective						
Optimization of cutting parameter for surface finish and hole accuracy in drilling of EN31: A Taguchi approach	Dr.Joshi Sarang Prakashrao	International Journal of Management Concepts and Philosophy (Inderscience)	2018	2	Associate Professor, Imperial College of Engineering Research, Pune	0
Strategies for Buyer Supplier Relationship development in Indian Manufacturing Context	Dr.Joshi Sarang Prakashrao	Journal of Emerging Technology and Innovative Research	2019	0	Associate Professor, Imperial College of Engineering Research, Pune	0
Cutting Parameters Optimization of Hard Turning Process with Taguchi Method: A Review	Dr.Joshi Sarang Prakashrao	Journal of Emerging Technology and Innovative Research	2019	0	Associate Professor, Imperial College of Engineering Research, Pune	0
Statistical Techniques Application for Process Control: A Case Study	Dr.Joshi Sarang Prakashrao	Journal of Emerging Technology and Innovative Research	2019	0	Associate Professor, Imperial College of Engineering Research, Pune	0
Monitoring Controlling Agriculture Parameter using Wireless Sensor Network	Dr.Joshi Sarang Prakashrao	Journal of Emerging Technology and Innovative Research	2019	1	Associate Professor, Imperial College of Engineering Research, Pune	0

Analysis of Unidirectional Carbon Epoxy Laminate Composites to be Used in Light Weight Automobile Leaf Spring Model	Dr. Joshi Sarang Prakashrao	Journal of Emerging Technology and Innovative Research	2019	0	Associate Professor, Imperial College of Engineering Research, Pune	0
Effect of Fibre Packaging Pattern on Percentage of Fibre, Matrix Volume Fraction and Strength of Composite Leaf Spring Model	Dr. Joshi Sarang Prakashrao	Journal of Emerging Technology and Innovative Research	2019	1	Associate Professor, Imperial College of Engineering Research, Pune	0
Experimental Investigation of Diesel Engine Performance by using Mixtures of Diesel, Bio Diesel and zinc and Copper Oxide Nano Particles	Dr. Mangesh Dadarao Shende	4th International conference on Computing in Engineering Technology, DIEMS, Aurangabad	2019	1	Associate Professor, Imperial College of Engineering Research, Pune	0
Compressive behavior of cenosphere/epoxy syntactic foams in arctic conditions	Dr. Kiran S hahapurkar	Elsevier Composite Part B	2018	1	Assistant Professor, Imperial College of Engineering Research, Pune	0
Effect of arctic environment on flexural	Dr. Kiran S hahapurkar	Elsevier Composite Part B	2018	1	Assistant Professor, Imperial College of Engineering Research, Pune	0

behavior of fly ash cenosphere reinforced epoxy syntactic foams					g Research, Pune	
Influence of surface modification on wear behavior of fly ash cenosphere /epoxy syntactic foam	Dr.Kiran S hahapurkar	Elsevier Wear	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Effect of cenosphere filler surface treatment on the erosion behaviour of epoxy matrix syntactic foams	Dr.Kiran S hahapurkar	Wiley Polymer Composites	2018	1	Assistant Professor, Imperial College of Engineering Research, Pune	0
Tensile behavior of cenosphere /epoxy Syntactic foams	Dr.Kiran S hahapurkar	American Institute of Physics	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Dynamic Impact Behavior of Syntactic Foam Core Sandwich Composites	Dr.Kiran S hahapurkar	American Society for Composites	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Flexural response of Cenosphere/Epoxy Syntactic Foams	Dr.Kiran S hahapurkar	7th International Engineering Symposium, Japan	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Erosion response of cenosph	Dr.Kiran S hahapurkar	International Conference	2018	0	Assistant Professor, Imperial	0

ere/epoxy syntactic foams		on Composite and Nano e ngineering , France			College of Engineerin g Research, Pune	
Effect Of Spark Plug Position On Perform ance Of Engine Using Openfoam	Dr. Sachin Lotan Borse	Internatio nal Journal of Mechanical Engineerin g and Technology	2018	1	Associate Professor, Imperial College of Engineerin g Research, Pune	0
Enhancemen t of perfor mance of Passive Solar Still with Cylindrica l Copper Fins	Dr. Sachin Lotan Borse	Journal of Emerging Technology and Innovative Research	2018	0	Associate Professor, Imperial College of Engineerin g Research, Pune	0
Recent Studies in Internal Cooling of gas turbine blade: a Review	Dr. Sachin Lotan Borse	Journal of Emerging Technology and Innovative Research	2018	1	Associate Professor, Imperial College of Engineerin g Research, Pune	0
Developmen t of Dryer for Anodized Aluminium Section	Gawai Ujwal Samadhan	Internatio nal Journal for Scientific Research D evelopment (IJSRD)	2018	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Performanc e Analysis of Sintered Copper Heat Pipe Tower Cooler Based Liquid Cooled Heat Exchanger	Gawai Ujwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Experiment al Investi gation of External Inline	Gawai Ujwal Samadhan	Journal of Emerging Technology and Innovative	2018	0	Assistant Professor, Imperial College of Engineerin	0

Straight Fin Liner Enhanced Double Pipe Heat Exchanger		Research				g Research, Pune	
Performance Analysis of Peltier operated Portable Refrigerator	Gawai Ujwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	0		Assistant Professor, Imperial College of Engineering Research, Pune	0
Strategies For Buyer Supplier Relationship Development In Indian Manufacturing Context	Gawai Ujwal Samadhan	Journal of Emerging Technology and Innovative Research	2019	0		Assistant Professor, Imperial College of Engineering Research, Pune	0
Cutting Parameters Optimization Of Hard Turning Process With Taguchi Method	Gawai Ujwal Samadhan	Journal of Emerging Technology and Innovative Research	2019	0		Assistant Professor, Imperial College of Engineering Research, Pune	0
Monitoring Controlling Agriculture Parameter Using Wireless Sensor Network	Gawai Ujwal Samadhan	Journal of Emerging Technology and Innovative Research	2019	0		Assistant Professor, Imperial College of Engineering Research, Pune	0
A Review On Application Of Taguchi Methods In The Optimization Of Cutting Parameters For Surface Finish And Hole Diameter Accuracy	Gawai Ujwal Samadhan	Journal of Emerging Technology and Innovative Research	2019	0		Assistant Professor, Imperial College of Engineering Research, Pune	0

In Hard Turning Processes						
Optimization Of Hard Steel Turning By Taguchi Method And Response Surface Methodology	Gawai Ujwal Samadhan	Journal of Emerging Technology and Innovative Research	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Numerical Investigation Of Phase Change Material In Heat Sink For Electronic Cooling	Gawai Ujwal Samadhan	Journal of Emerging Technology and Innovative Research	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Review paper on Failure study of composite material under triaxial loading by using Micro Mechanical Based failure theory approach	Gunale Rahul Bhaskarrao	International Journal of Engineering Reserach	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Review paper on Failure study of composite material under triaxial loading by using Macro Mechanical Based failure theory approach	Gunale Rahul Bhaskarrao	Journal of Emerging Technologies and Innovative Research	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
A Review Paper On	Mrs. Jadhav	Journal of Emerging	2019	0	Assistant professor,	0



Student Performance Using Decision Tree Algorithms	Pratibha	Technology and Innovative Research			Imperial College of Engineering Research, Pune	
Stability and fault analysis of transmission line using Power World	Mrs Dhole Prajakta	Journal of Emerging Technology and Innovative Research	2019	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Stability and fault analysis of transmission line using Power World	Mrs Jagdale Suchita	Journal of Emerging Technology and Innovative Research	2019	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Review paper on composite material discussing its structural basics, processing methodologies and applications	Gunale Rahul Bhaskarrao	Journal of Emerging Technologies and Innovative Research	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Analysis of Carbon/Epoxy laminate under triaxial loading	Gunale Rahul Bhaskarrao	Journal of Emerging Technologies and Innovative Research	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Applications of composites in versatile domains	Gunale Rahul Bhaskarrao	Journal of Emerging Technologies and Innovative Research	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Design Development of cross linked bio inspired composite	Gunale Rahul Bhaskarrao	Conference proceedings	2018	0	Assistant Professor, Imperial College of Engineering	0

material to be used as a replacement for human bones					Research, Pune	
Study of basic structural mechanics of composite material	Gunale Rahul Bhaskarrao	Journal of Emerging Technologies and Innovative Research	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Design of automtaion model for Grinding Machines used in grinding of hollow cylindrical jobs: Part Implementation	Gunale Rahul Bhaskarrao	International Journal of engineering Technology	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Overall design and development depiction of Automated Grinding Machines used for the finishing of hollow cylindrical jobs	Gunale Rahul Bhaskarrao	International Journal of engineering Technology	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Introduction to the orthotropic composite material	Gunale Rahul Bhaskarrao	Journal of Emerging Technologies and Innovative Research	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Experimental Investigation of Twin water jet Impingment on flat	Gorde Rajesh	National Conference on Advancements in Mechanical Engineering and	2019	0	Assistant Professor, Imperial College of Engineering Research,	0

surface		Industrial Management 2019 NCAMEIM			Pune	
Strategies for buyer supplier relationship development in Indian manufacturing context	Gorde Rajesh	National Conference on Advancements in Mechanical Engineering and Industrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Thermal Analysis in LED Lamp of Plus fins by using various spacing	Gorde Rajesh	National Conference on Advancements in Mechanical Engineering and Industrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Performance analysis of Heat pipe and thermosyphon (weakless Heat pipe)	Gorde Rajesh	National Conference on Advancements in Mechanical Engineering and Industrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Solar Still with Protocatalyst and alternative source for potable water	Gorde Rajesh	National Conference on Advancements in Mechanical Engineering and Industrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Review on performance influencing parameters of solar still	Gorde Rajesh	National Conference on Advancements in Mechanical Engineering and Industrial	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0

		Management 2019 NCAMEIM				
Automation in burr removal techniques	Gorde Rajesh	Internatin al Journal of Innovation in Enginee ring and science 2018	2018	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Performanc e analysis of Heat Pipe and a wickless t hermosypho n pipe	Wankhede Ashish Ambadas	Natinal Conference on Advance ments in Mechanical Engineerin g and Indutrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Design and Developmen t of Dummy Chrome Using Injection Moulding: Review	Wankhede Ashish Ambadas	Natinal Conference on Advance ments in Mechanical Engineerin g and Indutrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Performanc e analysis of Heat pipe and t hermosypho n (weakless Heat pipe)	Wankhede Ashish Ambadas	Natinal Conference on Advance ments in Mechanical Engineerin g and Indutrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Solar Still with Protocatal yst and al ternative source for potable water	Wankhede Ashish Ambadas	Natinal Conference on Advance ments in Mechanical Engineerin g and Indutrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0

Review on performance influencing parameters of solar still	Wankhede Ashish Ambadas	Natinal Conference on Advance ments in Mechanical Engineerin g and Indutrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Experimental Investi gation of Twin water jet Impingment on flat surface	Wankhede Ashish Ambadas	Natinal Conference on Advance ments in Mechanical Engineerin g and Indutrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Analysis of Belt Conveyer System for Sugar Industry For Weight Reduction	Kumkale Prashant Kundlik	Internatio nal Journal Of Emergin g Technology and Innovative Research	2018	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Performanc e analysis of Water Cooled Domestic R efrigerato r2.	Kumkale Prashant Kundlik	Internatio nal Journal Of Emergin g Technology and Innovative Research	2018	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Parametric and Perform ance Analysis of Polyhouse	Kumkale Prashant Kundlik	Internatio nal Journal Of Emergin g Technology and Innovative Research	2018	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Analysis of Boiler Blow down Heat Recovery Using Shell Tube Type Heat Exchanger	Kumkale Prashant Kundlik	Internatio nal Journal Of Emergin g Technology and Innovative Research	2018	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0

Performanc e and Analysis of I C Engine Using Aqua Silencer	Kumkale Prashant Kundlik	Internatio nal Journal Of Emergin g Technology and Innovative Research	2018	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Design and Analysis of Rolling mill crusher shaft for weight reduction and strength e nhancement	Kumkale Prashant Kundlik	Internatio nal Journal Of Emergin g Technology and Innovative Research	2018	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
An Experim ental Inve stigation of Solar Still With Addition of PhotoCa talyt Material	Mane Pramod Muralidhar	National Conference on Advance ments in Mechanical Engineerin g and Indutrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Review on performanc e influenc ing parameters of solar still	Mane Pramod Muralidhar	National Conference on Advance ments in Mechanical Engineerin g and Indutrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Performanc e analysis of Heat pipe and t hermosypho n (weakless Heat pipe)	Mane Pramod Muralidhar	National Conference on Advance ments in Mechanical Engineerin g and Indutrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineerin g Research, Pune	0
Solar Dryer for Medicinal Plant An E	Dhanore Rahul Tikaram	National Conference on Advance ments in	2019	0	Assistant Professor, Imperial College of	0

Experimental Investigation		Mechanical Engineering and Industrial Management 2019 NCAMEIM			Engineering Research, Pune	
An Experimental Investigation of Solar Still With Addition of PhotoCatalyst Material	Dhanore Rahul Tikaram	National Conference on Advancements in Mechanical Engineering and Industrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Modelling, Simulation And Testing of Diesel Engine Water Pump	Dhanore Rahul Tikaram	International Research Journal of Engineering and Technology	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Improving Line Productivity at Silencer Assembly line	Patil Nilesh Pandurang	National Conference on Advancements in Mechanical Engineering and Industrial Management	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Performance analysis of Water Cooled Domestic Refrigerator	Patil Nilesh Pandurang	International Journal of Emerging Technologies and Innovative Research	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Design and Analysis of lift arm for three point hitch of Tractor	Patil Nilesh Pandurang	International Research Journal of Engineering and Technology (IRJET)	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Vibration Analysis of Single cylinder Diesel	Chavan Vaman	National Conference on Advancements in Mechanical	2019	0	Assistant Professor, Imperial College of Engineering	0

Engine		Engineering and Industrial Management 2019 NCAMEIM			g Research, Pune	
A Study on Mechanical Properties of Aluminium Alloy (LM6) Reinforced with SiC and Fly Ash	Chavan Vaman	National Conference on Advancements in Mechanical Engineering and Industrial Management 2019 NCAMEIM	2019	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Remote user authentication operation using CARP	Dr. Sable Nilesh Papat	IFERP	2018	4	Assistant Professor, Imperial College of Engineering Research, Pune	1
Multiple sources for online transfer learning information	Mr. Joshi Himanshu Uttamrao	IJRSET	2018	2	Assistant Professor, Imperial College of Engineering Research, Pune	1
Homogeneous and heterogeneous online transfer learning information	Mr. Joshi Himanshu Uttamrao	ICKDST	2018	0	Assistant Professor, Imperial College of Engineering Research, Pune	0
Advance Recruitment System	Mr. Joshi Himanshu Uttamrao	IJCSE	2018	1	Assistant Professor, Imperial College of Engineering Research, Pune	0
Homogeneous and heterogeneous online transfer learning information	Mr. Joshi Himanshu Uttamrao	IJCEA	2018	1	Assistant Professor, Imperial College of Engineering Research,	0



					Pune	
Trustworthy Cloud Services for IoT Security: Triple Integration of Security, Privacy and Reputation	Mr. Amarnath J L	IJEAT	2019	1	Assistant Professor, Imperial College of Engineering Research, Pune	0
M 3 HP: An Efficient Secured Data Transmission using the Human Password Generation Solution	Mr. Amarnath J L	IJITEE	2019	1	Assistant Professor, Imperial College of Engineering Research, Pune	0
Smart Home Environments Utilizing AI IoT	R K. Sarawale	Journal of Emerging Technology and Innovative Research	2019	0	Research Scholar, J. J. T. University	0
Video Segmentation Review Approach	D.A.Jadhav	Journal of Emerging Technology and Innovative Research	2019	0	Research Scholar, J. J. T. University	0
E Shaped Frequency and Pattern Reconfigurable Antenna for LTE and WLAN Application	A. S. Deshpande	Journal of Emerging Technology and Innovative Research	2019	0	Research Scholar, Rajarshi Shahu College of Engineering, Pune	0
CPW Feed Rectangular Microstrip Patch Antenna	A. A. Trikolikar	Journal of Emerging Technology and Innovative Research	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Survey of various road	Dr. P.S. Arora	ACCET	2019	0	Associate Professor, Imperial	0

detection and extraction techniques for autonomous vehicles					College of Engineering Research, Pune	
E Shaped Frequency and Pattern Reconfigurable Antenna for LTE and WLAN Application	Dr. S. L. Lahudkar	Journal of Emerging Technology and Innovative Research	2019	0	Professor, Imperial College of Engineering Research, Pune	0
Fire Rescue System for Railways	Dr. S J Malhotra	Journal of Emerging Technology and Innovative Research	2019	0	Associate Professor, Imperial College of Engineering Research, Pune	0
Handheld Assistive Device for People Suffering from Tremor	A. S. Deshpande	Journal of Emerging Technology and Innovative Research	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Blind Aid Stick using Offline GPS, Obstacle detection, Voice based cooperation via GPS along with Panic Alert System	Dr. S. L. Lahudkar	OAIJSE	2018	0	Professor, Imperial College of Engineering Research, Pune	0
Security Intelligence and Fire Fighting Robot	N. S. Labhade	IERJ	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0

GSM based Liquid Level Monitoring System	V. B. Raskar	IERJ	2019	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Bidirectional DCDC Converter Using in Electric Vehicle	. N. S. Labhade	IJRESM	2019	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Y Shaped Microstrip Patch Antenna for LTE and WiMAX Applications	A. A. Trikolikar	Journal of Emerging Technology and Innovative Research	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
IOT based Industry Automation using ARM 7	N. S. Labhade	IJARCE	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Automatic SelfParking Chair Using Nissan Technology	S. S. Sayyad	IRJET	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Design and Analysis of Compact Asymmetric Fractal Patch Antenna with enhanced bandwidth and harmonic suppression for Wireless application	A. S. Deshpande	Journal of Emerging Technology and Innovative Research	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0

s						
KaluzaKlein string cosmological model in f(R,T) theory of gravity	Dr. Poonam Agrawal	NEW ASTRONOMY, ELSEVIER	2018	0	Assistant professor, Imperial College of Engineering Research, Pune	0
Two fluid axially symmetric cosmological model in f(R) theory of gravity	Dr. Poonam Agrawal	Prespace time journal	2019	0	Assistant professor, Imperial College of Engineering Research, Pune	0
A modified holographic Ricci dark energy model in f(R,T) theory of gravity	Dr. Poonam Agrawal	journal of astrophysics and astronomy, SPRINGER	2019	0	Assistant professor, Imperial College of Engineering Research, Pune	0
No file uploaded.						

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
E SHAPED FREQUENCY AND PATTERN RE CONFIGURABLE ANTENNA FOR LTE AND WLAN APPLICATION	Dr. S. L. Lahudkar	JETIR	2018	2	0	Professor, Imperial College of Engineering Research, Pune
Using Waste Construction Material in paving blocks with Coir Fibre	Dr Anil Shirgire	IJIRSET	2018	1	0	J.J.T universitu
Addition of Waste Construction Material in Paver	Dr Anil Shirgire	IJSRD	2018	1	0	J.J.T universitu

Block with Coir Fibre						
ASSESSMENT OF ABRASION RESISTANCE OF CONCRETE PAVEMENT FOR DURABILITY	Abhijit warudkar	IJCIET	2018	2	0	J.J.T universitu
EXPERIMENTAL STUDY OF THE MECHANICAL BEHAVIOR OF ALUMINUM MOSQUITO SHEET ON CONCRETE CANVAS PANELS	P. K. Pasnur	P. K. Pasnur	2018	2	0	J.J.T universitu
Application of RCM Methodology Modeling for Availability of the System	Dr.Sarje Suhas Hamantrao	International Journal Management Concepts Philosophy	2018	1	0	JSPMs imperial college of engineering and research, wagholi
Strategies for Buyer Supplier Relationship Improvement: Scale Development and Validation	Dr.Joshi Sarang Prakashrao	Procedia Manufacturing(Elsevier)	2018	4	1	Associate Professor, Imperial college of engineering and Research, Wagholi
Supplier Development Success Factors in Indian Manufacturing Practice	Dr.Joshi Sarang Prakashrao	Materials Today (Elsevier)	2018	4	1	Associate Professor, Imperial college of engineering and Research, Wagholi
To Examine the Relationships between Supplier Development Practices and SupplierBuyer Re	Dr.Joshi Sarang Prakashrao	Benchmarking: an International Journal, (Emerald)	2018	4	1	Associate Professor, Imperial college of engineering and Research, Wagholi

lationship Practices from the Suppliers Perspective						
Optimization of cutting parameter for surface finish and hole accuracy in drilling of EN31: A Taguchi approach	Dr.Joshi Sarang Prakashrao	International Journal of Management Concepts and Philosophy (Inderscience)	2018	4	1	Associate Professor, Imperial college of engineering and Research, Wagholi
Strategies for Buyer Supplier Relationship development in Indian Manufacturing Context	Dr.Joshi Sarang Prakashrao	Journal of Emerging Technologies and Innovative Research	2018	4	0	Associate Professor, Imperial college of engineering and Research, Wagholi
Effect of arctic environment on flexural behavior of fly ash cenosphere reinforced epoxy syntactic foams	Dr.Kiran Sahapurkar	Elsevier Composite Part B	2018	2	5	Assistant Professor, JSPMs imperial college of engineering and Research, wagholi
Influence of surface modification on wear behavior of fly ash cenosphere /epoxy syntactic foam	Dr.Kiran Sahapurkar	Elsevier Wear	2018	2	2	Assistant Professor, JSPMs imperial college of engineering and Research, wagholi
Effect of cenosphere filler surface treatment	Dr.Kiran Sahapurkar	Wiley Polymer Composites	2018	2	2	Assistant Professor, JSPMs imperial college of

on the erosion behaviour of epoxy matrix syntactic foams						engineering and Research, wagholi
Tensile behavior of cenosphere /epoxy Syntactic foams	Dr.Kiran S hahapurkar	American Institute of Physics	2018	2	0	Assistant Professor, JSPMs imperial college of engineering and Research, wagholi
Dynamic Impact Behavior of Syntactic Foam Core Sandwich Composites	Dr.Kiran S hahapurkar	American Society for Composites	2018	2	0	Assistant Professor, JSPMs imperial college of engineering and Research, wagholi
Flexural response of Cenosphere/Epoxy Syntactic Foams	Dr.Kiran S hahapurkar	7th International Engineering Symposium, Japan	2018	2	0	Assistant Professor, JSPMs imperial college of engineering and Research, wagholi
Erosion response of cenosphere/epoxy syntactic foams	Dr.Kiran S hahapurkar	International Conference on Composite and Nano engineering , France	2018	2	0	Assistant Professor, JSPMs imperial college of engineering and Research, wagholi
Performance Analysis of Sintered Copper Heat Pipe Tower Cooler Based Liquid Cooled Heat Exchanger	GawaiUjwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	1	0	Assistant Professor, JSPMs imperial college of engineering and Research, wagholi

Smart Home Environments Utilizing AI IoT	R K. Sarawale	JETIR	2019	2	0	Research Scholar, J. J. T. University
Video Segmentation Review Approach	D.A.Jadhav	JETIR	2019	2	0	Research Scholar, J. J. T. University
E SHAPED FREQUENCY AND PATTERN RECONFIGURABLE ANTENNA FOR LTE AND WLAN APPLICATION	A. S. Deshpande	JETIR	2019	2	0	Research Scholar, Rajarshi Shahu Colege of Engineering, Pune
CPW Feed Rectangular Microstrip Patch Antenna	A. A. Trikolikar	JETIR	2018	4	0	Assistant professor, Imperial College of Engineering Research, Pune
Survey of various road detection and extraction techniques for autonomous vehicles	Dr. P.S. Arora	ACCET	2019	8	0	Associate Professor, Imperial College of Engineering Research, Pune
Smart Home Environments Utilizing AI IoT	Dr. P.S. Arora	JETIR	2019	8	0	Associate Professor, Imperial College of Engineering Research, Pune
Video Segmentation Review Approach	Dr. P.S. Arora	JETIR	2019	8	0	Associate Professor, Imperial College of Engineering Research, Pune
Review of Stress Monitoring	Dr. P.S. Arora	JETIR	2019	8	0	Associate Professor, Imperial



and Detection						College of Engineering Research, Pune
Study of neural network in video processing	Dr. P.S. Arora	JETIR	2019	8	0	Associate Professor, Imperial College of Engineering Research, Pune
Development of Dryer for Anodized Aluminium Section	GawaiUjwal Samadhan	International Journal for Scientific Research Development (IJSRD)	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Performance Analysis of Sintered Copper Heat Pipe Tower Cooler Based Liquid Cooled Heat Exchanger	GawaiUjwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Experimental Investigation of External Inline Straight Fin Liner Enhanced Double Pipe Heat Exchanger	GawaiUjwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Performance Analysis of Peltier operated Portable Refrigerator	GawaiUjwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune

Strategies For Buyer Supplier Relationship Development In Indian Manufacturing Context	GawaiUjwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Cutting Parameters Optimization Of Hard Turning Process With Taguchi Method	GawaiUjwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Monitoring Controlling Agriculture Parameter Using Wireless Sensor Network	GawaiUjwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
A Review On Application Of Taguchi Methods In The Optimization Of Cutting Parameters For Surface Finish And Hole Diameter Accuracy In Hard Turning Processes	GawaiUjwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Optimization Of Hard Steel Turning By Taguchi Method And Response Surface Methodology	GawaiUjwal Samadhan	Journal of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
NUMERICAL INVESTIGAT	GawaiUjwal Samadhan	Journal of Emerging	2018	1	0	Assistant professor

ION OF PHASE CHANGE MATERIAL IN HEAT SINK FOR ELECTRONIC COOLING		Technology and Innovative Research				imperial college of engineering and research, wagholi, Pune
Analysis of Belt Conveyer System for Sugar Industry For Weight Reduction	Kumkale Prashant Kundlik	International Journal Of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Performance analysis of Water Cooled Domestic Refrigerator2.	Kumkale Prashant Kundlik	International Journal Of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Parametric and Performance Analysis of Polyhouse	Kumkale Prashant Kundlik	International Journal Of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Analysis of Boiler Blow down Heat Recovery Using Shell Tube Type Heat Exchanger	Kumkale Prashant Kundlik	International Journal Of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Performance and Analysis of I C Engine Using Aqua Silencer5.	Kumkale Prashant Kundlik	International Journal Of Emerging Technology and Innovative Research	2018	1	0	Assistant professor imperial college of engineering and research, wagholi, Pune
Design and Analysis of Rolling	Kumkale Prashant Kundlik	International Journal Of	2018	1	0	Assistant professor imperial

mill crusher shaft for weight reduction and strength enhancement	Emerging Technology and Innovative Research			college of engineering and research, wagholi, Pune
--	---	--	--	--

[View File](#)

### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	5	75	5	0
Presented papers	18	56	8	0
Resource persons	2	14	13	1

### 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
Yoga Day	NSS Unit	20	160
Road safety awareness	Lonikand Police Station	3	60
Kerala flood relief Donation	NSS	5	120
Tree plantation Drive	Forest Department	3	80
Blood Donation Camp	Poona Blood Bank	2	88
NSS camp	SPPU	2	100
Youth Day	NSS	1	75
Women Empowerment	NSS	12	162
Tree Plantation	NSS	2	200

[View File](#)

#### 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
NSS vari.. pune to pandharpur	Special recognition by SPPU	SPPU	1000

#### 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	Name of the activity	Number of teachers participated in such	Number of students participated in such

	agency		activites	activites
Yoga Day	Government of India	Yoga day	20	160
Road Safety	Lonikand Police Station	Road Safety awareness	5	100
Women Empowerment	Government of India	Women Empowerment	12	60
Tree Plantation	Government of India	Tree Plantation	3	30
Entrepreneurship Awareness	IIT Kharagpur	Entrepreneur Awareness Drive 2018	1	25
Entrepreneur Awareness	NSTEDB department of science and technology Government of India	Techno Entrepreneur 2K18	1	30
Swachh Bharat	SPPU NSS	Swachh Vari	2	30
Art Circle	Cultural	Theatre Workshop	1	42
Art Circle	Cultural	Solo one Act Play	1	78
Art Circle	Cultural	Vinodottam Karandak 2018	1	19
Art Circle	Cultural	Cresta 2k19	1	300

### 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
coders club	Students	Self	30
Meeting with Dr. Lau( Malasia university)	Faculty members	self	3

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
Project and Inplant Training	MoU	Global calibration Pvt. Ltd.	04/01/2019	31/12/2019	02
Project and Inplant Training	MoU	E K. Electronics	04/01/2019	31/12/2019	02

MyExamo	MyExamo	Visceral	19/06/2018	25/06/2019	353
Research Internship	BE Project	CPWD Delhi and L and T Pvt. Ltd	01/01/2019	06/02/2019	04
Software training	Software Club	Cadd Centre Wagholi	01/06/2018	01/02/2019	56

[View File](#)

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
Zertron	07/03/2019	To provide stake holders achievements, notice regarding activities of department and college level, online attendance monitoring, online gfm records.	25
Global Calibration Pvt. Ltd.	04/01/2019	Project and Inplant Training	11
E K Electronics	04/01/2019	Project and Inplant Training	4
Red Hat (IRT Technologies)	18/07/2018	Training UG students on Redhat technologies.	27

[View File](#)

### 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
6457908	6910200

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing

Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Classrooms with Wi-Fi OR LAN	Existing
Others	Existing

#### 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
Autolib	Fully	1.0.0	2010

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	21352	8064749	0	0	21352	8064749
Reference Books	229	232801	0	0	229	232801
e-Books	27000	182900	0	0	27000	182900
e-Journals	5	1422701	0	0	5	1422701
Journals	96	272961	96	285378	192	558339
CD & Video	1294	48750	25	0	1319	48750
Library Automation	1	46000	0	0	1	46000

[View File](#)

##### 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
Mandore S	Learning Material for TMC	MOODLE	18/06/2018
Kulkarni S R	Learning Material for Heat Transfer	MOODLE	18/06/2018
Darekar V	Learning Material for Material Science	MOODLE	18/06/2018
Boli R J	Learning Material for Manufacturing Practices	MOODLE	18/06/2018
Lohote Pravin	Learning Material for HP	MOODLE	18/06/2018
Bandgar M S	Learning Material for HVAC	MOODLE	18/06/2018
Chougule C	Learning Material for Strength of Materials	MOODLE	18/06/2018

D R Kale	Learning Material for Dynamics of Machineries	MOODLE	10/06/2018
Dr. P. R. Badadapure, S. S. Sayyad	Learning Material for Digital Electronics	MOODLE	12/06/2018
Dr. P. S. Arora	Learning Material for Artificial Intelligence	MOODLE	12/06/2018
Dr. S. J. Malhotra	Learning Material for Digital Image Video Processing	MOODLE	12/06/2018
Dr. S. K. Bhatia, D. A. Jadhav	Learning Material for Computer Networks Security	MOODLE	12/06/2018
A.S. Deshpande	Learning Material for Radiation Microwave Technology	MOODLE	12/06/2018
V. B. Raskar	Learning Material for Digital Signal Processing	MOODLE	12/06/2018
Dr. S. L. Lahudkar, N. S. Labhade	Learning Material for Electronic Devices Circuits	MOODLE	12/06/2018
A. A. Trikolokar, K. D. Pawar	Learning Material for Data Structure Algorithm	MOODLE	12/06/2018
R. K. Sarawale	Learning Material for Microcontroller	MOODLE	12/06/2018
M. S. Patil	Learning Material for Mechatronics	MOODLE	12/06/2018
G.V. Karbhari	Learning Material for Electromagnetics	MOODLE	12/06/2018
D. N. Naiknaware , N. N. Kulkarni	Learning Material for Signals System	MOODLE	12/06/2018
H. N. Dhanawate, S.A.Mane	Learning Material for VLSI Design Technology	MOODLE	12/06/2018
P. Kumar	Learning Material for Embedded RTOS	MOODLE	12/06/2018
Dr. S. L. Lahudkar	Learning Material for Analog Communication	MOODLE	03/12/2018
Dr. P. S. Arora, Dr. S. J. Malhotra	Learning Material for Audio Video Engineering	MOODLE	03/12/2018
Dr. S. K. Bhatia, A. S. Deshpande	Learning Material for Mobile	MOODLE	03/12/2018



	Communication		
V. B. Raskar	Learning Material for Integrated Circuits	MOODLE	03/12/2018
N. S. Labhade	Learning Material for Power Electronics	MOODLE	03/12/2018
R. K. Sarawale	Learning Material for Advanced processor	MOODLE	03/12/2018
D. A. Jadhav, D. N. Naikaware	Learning Material for Broadband Communication	MOODLE	03/12/2018
G.V. Karbhari	Learning Material for control System	MOODLE	03/12/2018
N. N. Kulkarni	Learning Material for Information Theory Communication Networks	MOODLE	03/12/2018
S. S. Sayyad	Learning Material for Object Oriented programming	MOODLE	03/12/2018
P.K.Pasnur	Learning Material for Structural Engineering	MOODLE	18/06/2018
A. N. Bhirud	Learning Material for Construction Management	MOODLE	18/06/2018
R. A. Binayake	Learning Material for Environmental Engineering	MOODLE	18/06/2018
Y.K.Poul	Learning Material for Geotechnical Engineering	MOODLE	18/06/2018
A. N. Bhirud	Learning Material for Construction Management	MOODLE	17/12/2018
C.S.Chavan	Learning Material for Water Resource Engineering	MOODLE	17/12/2018
R. A. Binayake	Learning Material for Environmental Engineering	MOODLE	17/12/2018
Y.K.Poul	Learning Material for Geotechnical Engineering	MOODLE	17/12/2018
.P.K.Pasnur	Structural Engineering	MOODLE	17/12/2018
A. N. Bhirud	Construction	MOODLE	17/12/2018

	Management		
C.S.Chavan	Water Resource Engineering	MOODLE	17/12/2018
R. A. Binayake	Environmental Engineering	MOODLE	17/12/2018
D. P. Gadekar	Learning material for Software Engineering Project Management	MOODLE	18/06/2018
S. R. Todmal	Learning material for Software Engineering Project Management	MOODLE	18/06/2018
V. S. Wadne	Learning material for Software Testing Quality Assurance	MOODLE	18/06/2018
V. S. Wadne	Learning material for Software Engineering Project Management	MOODLE	18/06/2018
R. N. Phursule	Learning material for Discrete Mathematics	MOODLE	18/06/2018
S. T. Bodkhe	Learning material for Object Oriented Programming	MOODLE	18/06/2018
S. Shinde	Learning material for Data Mining Data Warehousing	MOODLE	18/06/2018
S. Shinde	Learning material for Data Analytics	MOODLE	18/06/2018
S. T. Waghmode	Learning material for Database Management Systems	MOODLE	18/06/2018
M. S. Darokar	Learning material for High Performance Computing	MOODLE	18/06/2018
N. P. Sable	Learning material for Digital Electronics Logic Design	MOODLE	18/06/2018
P. Nimbalkar	Learning material for Data Structures Algorithms	MOODLE	18/06/2018
V. N. Bhorde	Learning material for Distributed Systems	MOODLE	18/06/2018
R. Sonawane	Learning material for Computer	MOODLE	18/06/2018

	Organization Architecture		
H. U. Joshi	Learning material for Data Mining Warehousing	MOODLE	18/06/2018
S. S. Thokal	Learning material for Artificial Intelligence	MOODLE	18/06/2018
Premlatha G.	Learning material for Database management Systems	MOODLE	06/06/2018
S. Kothavale	Learning material for Computer Network	MOODLE	18/06/2018
S. Deshmukh	Learning material for Information Systems Engineering Economics	MOODLE	18/06/2018
K. Kulkarni	Learning material for Computer Networks	MOODLE	18/06/2018
. Bharate	Learning material for Data Structures Algorithm	MOODLE	18/06/2018
K. Raghvendra	Learning material for High Performance Computing	MOODLE	18/06/2018
A. Supe	Learning material for Object Oriented Programming	MOODLE	18/06/2018
A. Raut	Learning material for Information Systems Engineering Economics	MOODLE	18/06/2018
V. V. Bhujade	Learning material for Data Mining Warehousing	MOODLE	18/06/2018
Dr Sarje S H	Learning Material for Tribology	MOODLE	18/06/2018
Dr Joshi S P	Learning Material for Metrology Quality Control	MOODLE	18/06/2018
Khot Mahesh	Learning Material for Design of Machine	MOODLE	18/06/2018
D S Patil	Learning Material for Theory of Machines	MOODLE	18/06/2018
Siddu Patil	Learning Material for thermodynamics	MOODLE	18/06/2018

### 4.3 – IT Infrastructure

#### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	670	23	1	2	2	1	6	48	
Added	140	1	1					100	
Total	810	24	2	2	2	1	6	148	0

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

100 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
MOODLE	<a href="http://jspm-e-nirmitee.in/moodle/mod/bigbluebuttonbn/view.php?id=91">http://jspm-e-nirmitee.in/moodle/mod/bigbluebuttonbn/view.php?id=91</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
2885843	3087900	5328870	5702000

#### 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)

Institute has demarcated procedure for maintenance and utilization of physical, academic and support facilities laboratory, library, sports complex, computers, classrooms etc. The repair and maintenance of Computer and systems are done by external agencies. Based on department requirement replacement of faulty hardware and or addition of the hardware augmenting the system configurations is done. Laboratory Equipment's are maintained through annual maintenance procedure. Even based on requirement six monthly maintenance by the equipment manufacturer / external agency is also done. Maintenance of furniture items and metal fixtures is carried out by Workshop. Maintenance of EPBAX, Air Conditioning System, Water Coolers, glass fittings etc. is looked after by appropriate employees. External agency is appointed for maintenance either in the form of Annual maintenance contract (AMC) or on case to case basis. The Campus Supervisor looks after a) General civil maintenance and upkeep of civil infrastructure. b) Maintenance of plumbing related work. c) General cleanliness through separate House Keeping team. ? Electrical Maintenance is looked after by Electrical Maintenance coordinator and team. ? Repair and Maintenance of equipment and instruments is initiated by Laboratory in charge as and when required. As a precautionary measure laboratory in charge, along with laboratory assistant, ensures inspection and proper working of all equipment at the beginning of each semester. ? Annual Maintenance Contract is signed for Generators and any other equipment as per the requirements. All classrooms, seminar halls, Building, Hostel, Residential Area are maintained under the

supervision of Dean Administration. Dean of Student affairs takes care of use of all sport facility and all the extra and cocurricular activities conducted for Institutional students throughout the year. Students are encouraged to participate in extra and cocurricular activities and sport activities and their participation in Institutional and National and International competitions.

<https://jspmicoer.edu.in/pdf/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
Financial Support from institution	0	0	0
Financial Support from Other Sources			
a) National	Government of India PostMatric Scholarship (SC Scholarship)All Government Schemes for category students, PostMatric Tuition Fee and Examination Fee (SC Freeship)PostMatric Tuition Fee and Examination Fee (SC Freeship), Post Matric Scholarship Scheme	2689	159059031
b) International	0	0	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
Remedial Classes	18/03/2019	69	Self
Personal Coaching	11/01/2019	12	Self
Pre requisite enhancement Program(PEP)	23/08/2019	130	Self
Performance Enhancement Program (PIP)	18/03/2019	200	Self
GFM and Class mentor	01/01/2019	353	Self
Soft Skill Enhancement	12/01/2019	62	Alex Spoken English
Soft Skill	23/08/2019	182	Barclayes

Enhancement			
Foreign Language (German)	03/09/2018	8	German Language Lab
Soft Skill Training	21/01/2019	22	Gyanteerth Academy and Barclays
Yoga Day Celebration	21/06/2018	300	National Yoga Day
Remedial coaching	22/12/2018	78	Subject Teachers
Soft skill development	16/07/2018	196	Mrs. Sai Balkawade
Career Opportunities in Airport engineering	05/04/2019	62	Lt. Col Manish Kothari, AAI Pune
Site Management	14/07/2018	50	Mr. Anand Aswale, DGM Capacite, Pune
Civil Engineering Software	28/07/2018	70	Mr. Sachin Patil, Director, IDSS, Pimple Saudagar, Pune
Preparation of GATE / Competitive Exam	11/08/2018	65	Mr. Manu Abraham, Director, ICT, GATE Institute Pune.
GRE Preparation	08/09/2018	65	Mr. Chitraranjit Malik, Sr. Executive, The Chopras, Pune
Study on GIS Application	29/11/2018	50	Mr. Mrutunjay Panigraha, Director, Jeura Technologies Pvt Ltd Pune
Aptitude Soft Skills Development	08/10/2018	45	Fuel
Soft Skills Development	23/03/2018	30	Smartelix
<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 passed in the comp. exam	Number of students placed
2018	Career Counseling guidance	80	65	52	32
2018	Competitive counseling guidance	50	32	18	8

[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
9	9	8

## 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
HiFab Eng, TE Connectivity (I) Ltd, Sanden Vikas Ltd, ZF Steering Gear (I) Ltd, Barclays Ltd, Jaro Management Research Pvt Ltd, Jayashree Electrodevices Pvt Ltd, Hiremee (I) Pvt Ltd, Fiserv Pvt Ltd, FIS Global Pvt Ltd, Orilent Technologies Pvt Ltd, Mah	2793	483	Reality Automation Security System Pvt Ltd., Global Calibration Pvt Ltd, KALA Genset Pvt Ltd, Jain Irrigation System Ltd, DSM (I) Pvt Ltd, Endurance Technologies Ltd, ENKEI WHEELS (INDIA) LTD, Piaggio Vehicles Pvt Ltd., Ultra Engineers Ltd, Kbtron	550	84

[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	Department graduated from	Name of institution joined	Name of programme admitted to
2018	8	Bachelor of Engineering	Mechanical Engineering	United Kingdom, Germany	United Kingdom, Germany
2018	14	Bachelor of Engineering	Computer Engineering	USA / Japan / Russia / UK	USA / Japan / Russia / UK
2018	5	Bachelor of Engineering	Electronics and Telecomm	USA / UK	USA / UK

			unication Engineering		
2018	3	Bachelor of Engineering	Civil Engineering	UAE	UAE
<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	5
CAT	17
Civil Services	1
<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
Carom	College	80
Throwball( Girls)	College	30
Box cricket ( Girls)	College	36
Annual Cultural Program	College	200
Shivjayanti	College	200
Ganesh Festival	College	2000
Kite Festival	College	700
Teacher's Day	College	78
Engineer's Day	College	300
Yoga Day	College	400
National Unity Day	College	400
Lokshahi Pandharawada	College	300
Marathi Bhasha Gaurav Din	College	300
Sports Day	College	50
Intercollegiate Cricket Tournament	Intercollegiate Level	192
Annual Sports Meet	College	300
Volleyball(Boys)	College	70
Football(Boys)	College	70
Basketball(Boys)	College	70
Cricket(Boys)	College	105
Cricket( Staff)	College	80
Chess	College	50
<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
2018	Power player by Neelkanth group of institutions, Meerut, Uttar Pradesh	National	1	0	BE51	Pradip Patil

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

Following activities are done by Student Council

1. Organization of Lokshahi Pandharawada from 26/01/2019 to 10/02/2019
2. Publication of College Magazine
3. Organization of different programs in remembrance of Mahatma Gandhi birth anniversary such as tree plantation, NSS camp, visit and help to Maher Orphanage etc.
4. Kerala Flood Relief help and Pulwama attack soldiers help
5. Organization of Marathi Bhasha Gaurav Din.
6. Organization of Dakshak Jagrukta Abhiyan and Rally in Wagholi with the help of local Police Station
7. Organization of different days such as National Unity Day, Yoga Day etc
8. Organization of Swacch Bharat Abhiyan.
9. Safety Awareness Program for girls students.
10. Celebration of different cultural days such as Teacher's Day, Engineer's Day, Ganesh Festival, Shivjayanti etc.
11. Organization and conduction of Annual Cultural Program and Sports Week.
12. Organization and Conduction of Tech Fest named as Cresta 2K18.
13. Blood Donation Camp

Representation of Students is in following Committees.

1. Student Council
2. AntiRagging Committee
3. AntiRagging Squad.
4. Student Development Cell
5. Student Grievance Committee.
6. Woman's Grievance Committee.
7. SC/ST Cell
8. NSS Cell
9. Training and Development Cell

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The institute has a registered Alumni association numbered MH/114/2015/Pune dated 23/01/2015. The Alumni association contributes actively to the welfare of the institute. The institute website also has provision to communicate with alumni. Activities: Alumni meet is organized once in a year for maintaining harmony among the alumni and the institute. Alumni are invited for many events in the institute to witness the progress and also to share their experiences. Contributions The contributions of the Alumni Association for institutional, academic and JSPM's Imperial College of Engineering Research, Pune infrastructure development are:

1. Many alumni assist the students of the Institute in various academic activities by guest lectures, motivating the students by sharing their practical knowledge.
2. Alumni meet provide a common platform for exchange of ideas and disseminating knowledge in professional areas.
3. They assist the students of institute to pursue higher studies.
4. Few alumni extended assistance and cooperation to the Institute in its endeavors for the growth and development of institute.
5. Alumni association provided the donation and consultancies to extend infrastructural development of institute.
6. Representation of alumni in various academic committees provides valuable inputs in curriculum enrichment and student development.

5.4.2 – No. of enrolled Alumni:

2985

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

315200

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meet is organized once in a year for maintaining harmony among the alumni and the institute. Alumni are invited for many events in the institute to witness the progress and also to share their experiences.

## 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)

• Yes, the college has always promoted decentralization and participative management which is conducive for overall growth of the institution. • Principal is the head of academic and administrative affairs. All policy changes and academic activities are planned through a process of dialogue with stakeholders at various levels of the management system. • There are many practices of decentralization and participative management are followed at the institute level, amongst them the two practices are as follows 1. Academic Audit (Academic Monitoring Committee): • Academic monitoring committee assesses the quality content of course material prepared by individual faculty, punctuality and regularity of lecture and practical conduction, lecture observation. • AMC reviews the subject wise performance of each faculty along with all the necessary aspects of Teaching learning process like syllabus completion status, test performance, study material etc. twice in a semester. • We have incorporated Mentor based system at First Year Level (FE) where each class was having a mentor who had looked after the entire class in terms of student attendance, performance in internal test, teaching learning practices, aspects along with different strategies ( flip classroom, model based learning, quizzes etc) which helped students to enhance their performance. • The mentor had also guided the concerned faculty of the class to improve their teaching skills by adopting different strategies (like interaction with subject experts within and outside the institute) to keep students interest alive during the course. 2. Decentralization at administrative level: By taking into account the need of expertise at different levels for overall improvement of the institution were developed based on stakeholder feedback and internal committees. Various positions were created like Dean Planning and development, Dean III (Industry Institute Interaction), Dean of student affairs, Dean Academics, Dean Research and development, Dean administration. These positions were created in order to improve overall administration at institute level.

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

Yes

### 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
Library, ICT and Physical Infrastructure / Instrumentation	Institute library is having required number of books, volumes and titles written for different domains of specialization. ? The library facility also includes with bunch of journals and eBooks. ? Bunch of NPTEL videos

occupying size 10 terabytes is maintained with open access for faculty and students. ? Reference section is made available for students and faculty The faculty members are using following ICT tools to make the process more interactive: ? LCD projectors ? Internet enabled computer and WiFi enabled lap tops ? Moodle (Class room notes and relevant course material is uploaded and is the open access courseware to students and staff as well) ? NPTEL videos ? e Journals and eBooks ? Virtual Classroom Lectures. ? 48 Mbps WiFi internet facilities all over the campus. ? Interactive Information Panel( IIP) ? Modern software tools ? Digital Libraries.

Infrastructure: • The Institution has a regulated mechanism for the creation and enhancement of infrastructure • Institute has an infrastructure committee which looks into the development of infrastructure as per need and perspective plan • Requirements of additional space, maintenance and alterations are sought from the departments on a regular basis.

**Human Resource Management**

• The institution has welldefined HR policies. This includes managing faculty leave record, attendance record ,pay scale record , Service record ,medical facility record and grievance handling and is ready to handle any emergency situation

**Industry Interaction / Collaboration**

• Institute has separate Industry Institute Interaction Cell to bridge the gap between academic offerings and industry needs. • Departmental Industry Advisory Board is established having 5 industrial experts, HOD and Coordinator. Their Meet is arranged once in a semester • To make the students more industry oriented our institute conducts industrial exertion and visits. After their industrial visit they give a presentation before their departmental staff and they submit their reports. Third year student are encouraged for inplant training. • Apart from this, seminars are also organized where people from industries are invited to give expert talk and interact with the students to understand the recent trends.

**Admission of Students**

Since our institution is affiliated to

Savitribai Phule Pune University and approved by AICTE DTE, the students apply for admission to Centralized Admission Process (CAP) conducted by DTE Govt. of Maharashtra The Admission Policy of the institution ensures its commitment to equity, inclusion and diversity in all programmes. The following are the salient features of these strategies: SC/ST and OBC: The Institute follows all the rules and norms laid down by DTE, GoM regarding admission of students in the reservation criteria Women : No distinction is made between boys and girls for admission to various courses offered by the institute. About 15 to 18 of the students of the institute are girls Differently abled : Appropriate policies are defined by the institute for the differently abled students fully adhering to government policies. In this regard Institute has made few provisions Economically Weaker Sections : Economically Backward Class (EBC) Scholarship scheme of Government of Maharashtra is given to all the eligible students admitted through CAP as per the norms of DTE, Government of Maharashtra Actions initiated for improvement: Conducting value added courses in consultation with Industry and inhouse. ? Providing effective training and placement activities. ? Organizing Technosocial awareness programmes. ? Counseling sessions before and during Admission process. ? Trends for post graduate courses.

Curriculum Development

- The institute does not develop curriculum for any of the courses other than the University syllabus courses. However short duration value added courses are conducted to make the student competent in various domains e.g. Knowledge pertaining to emerging technology, personality development, improvement in communication/ soft skills etc. The process normally followed in curriculum development of such course is as follows: • Need for conduction of a course is accessed based on the feedback received from alumni, Employers and industry persons.
- These courses are designed by expert faculty of the department or the external resource person, based on the gap analysis done for curriculum and according to the needs of industry. •

Once the course constraints are designed in detail and with estimated time required, plans are made for execution of these courses. Depending upon the time available to students in a running semester and time required for the course, these courses are scheduled to be conducted during weekdays or weekends.

Teaching and Learning

- To achieve academic excellence institute organizes FDP regularly for all staff members . During this activity resource material is thoroughly prepared and evaluated
- The institute has a very good library with number of reference and text books. The college also subscribes ejournals to keep the faculty as well as the student's up todate in technology
- To make teaching and learning process more effective infrastructure is upgraded in a regular interval. In addition to that digitalization of learning resources is taken care of, Campus is WiFi enabled, and e learning mechanism is implemented to MOODLE
- Other than traditional method of teaching group discussion, field studies, debates, tutorials, seminars, study tours, competition on different subjects etc. are adopted for proper implementation of curriculum.
- Soon after a student is admitted, the institute has made provision for assessing student's knowledge and skills for particular programme through aptitude test.

Examination and Evaluation

- The institute is abiding to follow all major reforms initiated by SPPU. Few of such initiatives taken by university and implemented by the institute in their day to day practices are enlisted and briefed below,
- CEO appointment and university exam conduction
- Examination pattern: Pattern 2008 Pattern 2012 Pattern 2015
- On Line Exam
- In Semester Exam
- Appointment of Internal/External Examiners
- Credit system

The reforms initiated by the Institute: Institute also initiates certain activities and details of which are enlisted below:

- ? Conduction of mock online examination ?
- Mock oral, practical examination. ?
- Internal unit tests. ?
- Project competition ?
- Quiz competition ?
- Soft skill and personality development program.

<p>Research and Development</p>	<ul style="list-style-type: none"> <li>• Institute has separate R and D cell having one coordinator and 2 members from each department</li> <li>• The faculties as well as students are encouraged for research work in addition to their regular work</li> <li>• Other research activities of the departments include presentation and publication of research papers in seminars, conferences and journals and to take different project works</li> <li>• Faculties are encouraged to acquire external funds by submitting research proposal to external agencies</li> <li>• Management is promoting research activities by allocating funds to every department and gives study leave for research aspirants if needed</li> <li>• This year institute has applied for grant of Rs.25 Lakh under 5 different research projects by teaching faculties.</li> </ul>
---------------------------------	--

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

E-governance area	Details
<p>Administration</p>	<p>Management information system( MOODLE) helps in administration through following ways</p> <ol style="list-style-type: none"> <li>1. Management information system, MOODLE: Faculty member is allotted with subject distribution and workload</li> <li>2. Academic performance Index (API): At the end of academic year faculty member need to fill the academic information for API to evaluate the performance. In the next stage HOD needs to verify the information and give approval. Finally head of the institution verifies the information for further action.</li> <li>3. Zertron: This is an application software which enables the institute to provide the stake holders about the achievements, notice regarding activities of department and college level, online attendance monitoring, online GFM (Guardian Faculty member) records.</li> </ol>
<p>Finance and Accounts</p>	<p>The accounts department have incorporated Tally an accounting program. Tally helps in preparing balance sheet of expenditure vs income generated cash flow projection, manage accounts etc.</p>
<p>Student Admission and Support</p>	<p>The students who are interested for admission in the institute needs to submit the application online on the website</p>

	<p><a href="https://jspmicoer.edu.in/admission.php">https://jspmicoer.edu.in/admission.php</a> by registering themselves. The data collected through this process is used to prepare admission list of eligible students based on Centralised Admission process ( CAP) conducted by DTE</p>
Examination	<p>FE ( first year department) incorporated myexamo application for online tests. Faculty prepares test according to the subject requirement, rules for test and weightage for subjects/ topics, save test paper for future reference, rapid review after test and overall control on test result.</p>
Planning and Development	<p>The management information system of the institute supports in Planning the academic events and activities such as academic calendar, Time table, assignment, activities like quiz, poster presentation competition, feedback from the students etc. MIS helps the faculty to share the Assignment, question bank, course learning material like notes, Power point presentation, Links of video lectures, related research paper with application.</p>

### 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
2019	R B Gunalel 1	NCAMEIM19	SPPU, Pune	900
2019	R B Gunalel 1	NCAMEIM19	SPPU, Pune	900
2019	R B Gunalel 1	NCAMEIM19	SPPU, Pune	900
2019	R B Gunalel 1	NCAMEIM19	SPPU, Pune	900
2019	R B Gunalel 1	NCAMEIM19	SPPU, Pune	900
2019	Ganiger S G	NCAMEIM19	SPPU, Pune	900
2019	Dr. Suhas Sarje	NCAMEIM19	SPPU, Pune	900
2019	R S Gorde	NCAMEIM19	SPPU, Pune	900
2019	Dattatray Jadhav 1	NCAMEIM19	SPPU, Pune	900
2019	Hareshwar Patil 4	NCAMEIM19	SPPU, Pune	900
2019	Swapnil Chandgude 4	NCAMEIM19	SPPU, Pune	900
2019	Rahul K.	NCAMEIM19	SPPU, Pune	900

	Sarawale 2			
2019	Ashish Wankhede	NCAMEIM19	SPPU, Pune	900
2019	Rahul Suryavanshi 3	NCAMEIM19	SPPU, Pune	900
2019	Dipak Kale 2	NCAMEIM19	SPPU, Pune	900
2019	Pankaj Katre	NCAMEIM19	SPPU, Pune	900
2019	Shailendra Mandore	NCAMEIM19	SPPU, Pune	900
2019	Shailendra Mandore	NCAMEIM19	SPPU, Pune	900
2019	Atul Talape	NCAMEIM19	SPPU, Pune	900
2019	Rohan Kare	NCAMEIM19	SPPU, Pune	1000
2019	Rohan Kare	NCAMEIM19	SPPU, Pune	1000
2019	Mahesh S. Patil 2	NCAMEIM19	SPPU, Pune	1000
2019	Mr. Vineeth Katkam4	NCAMEIM19	SPPU, Pune	900
2019	Charles Edward 1	NCAMEIM19	SPPU, Pune	900
2019	Sayyed Ghulame Mustafa 4	NCAMEIM19	SPPU, Pune	900
2019	Sandip Kharge	NCAMEIM19	SPPU, Pune	900
2019	Dhanashree Ambekar	NCAMEIM19	SPPU, Pune	1000
2019	Amar Wargante	NCAMEIM19	SPPU, Pune	900
2019	Pankaj Dhandar	NCAMEIM19	SPPU, Pune	900
2019	Pankaj Dhandar	NCAMEIM19	SPPU, Pune	900
2019	Vivekanand Navadagi	NCAMEIM19	SPPU, Pune	900
2019	Mohini Kolhe	NCAMEIM19	SPPU, Pune	900
2019	Priyanka Barde	NCAMEIM19	SPPU, Pune	1000
2019	Gayatri Kulkarni	NCAMEIM19	SPPU, Pune	900
2019	Vivekanand Navadagi	NCAMEIM19	SPPU, Pune	900
2019	M artand Olekar	NCAMEIM19	SPPU, Pune	1000
2019	Maheshwari Patil patil	NCAMEIM19	SPPU, Pune	1000
2019	Sagar Joshi	NCAMEIM19	SPPU, Pune	1000
2019	Hase Dinesh	NCAMEIM19	SPPU, Pune	1000
2019	Rahul Dhanore	NCAMEIM19	SPPU, Pune	1000
2019	Subodh Patil	NCAMEIM19	SPPU, Pune	900
2019	Pravin K. Pawar and Gawai sir	NCAMEIM19	SPPU, Pune	900



2019	Mane Pramod	NCAMEIM19	SPPU, Pune	1000
2019	Belgaonkar , Gawai	NCAMEIM19	SPPU, Pune	900
2019	Students and Pramod Mane	NCAMEIM19	SPPU, Pune	900
2019	Students and Bandgar	NCAMEIM19	SPPU, Pune	900
2019	Thakur Abhishek , Talape	NCAMEIM19	SPPU, Pune	900
2019	Dhole Prajakta	NCAMEIM19	SPPU, Pune	900
2018	A.N. Bhirud	One week Skill Development program on "Sustainable Materials used in Construction"	ISTE and D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune	1000
2018	C.S. Chavan	Two days workshop on "Effective Teaching Methodology in Fluid MechanicsI"	BoS Civil Engineering, SPPU, Pune and Sinhadgad College of Engineering, Pune	500
2019	C.S. Chavan	Two days workshop on "Recent Advances in Remote Sensing and Satellite Image Processing"	SPPU, Pune and JSPM's Rajarshi Shahu College of Engineering, Pune	500
2019	Dr.S.K.Bhatia	Remote Sensing and Digital Image Processing	NPTEL Online	1100
2019	Dr.S.K.Bhatia	Faculty Orientation Workshop on BE (ETC) revised syllabus (2015 Course) Subject :Computer Network Security	International Institute of Information Technology	500
2018	Dr.S.K.Bhatia	Faculty Orientation Workshop on BE (ETC) revised syllabus (2015 Course) Subject:Mobile Communication	MMCOE, Karvenagar Pune	400

2018	A. A. TRIKOLIKAR	Microwave Theory Techniques	NPTEL Online	1100
2018	A. A. TRIKOLIKAR	Two Day State Level Workshop on Design Challenges in Reconfigurable Antenna.	JSPMs I.C.O.E.R, Wagholi	500
2018	A. A. TRIKOLIKAR	Faculty Orientation Workshop on BE (ETC) revised syllabus (2015 Course) Subject: Radiation Microwave Techniques	JSPMs I.C.O.E.R, Wagholi	500
2019	A. A. TRIKOLIKAR	Two Day State Level Workshop on Research Methodology, Indian Patent Drafting Filing Procedure.	JSPMs I.C.O.E.R, Wagholi	500
2019	A. A. TRIKOLIKAR	Two Days Workshop on Recent Advances in Remote Sensing Satellite Image Processing.	JSPMs R.S.C.O.E, Tathawade	500
2019	A. A. TRIKOLIKAR	Expert Lecture Seriese on Technical Paper Writing.	AISSMS IOIT, Pune	100
2019	A. A. TRIKOLIKAR	Orientation Lecture on How to Write Effective Research Proposal for Funding	AISSMS IOIT, Pune	100
2018	A. S. Deshpande	Faculty Orientation Workshop on BE (ETC) revised syllabus (2015 Course) Subject: Mobile Communication	MMCOE, Karvenagar, Pune	400
2019	A. S. Deshpande	Expert Lecture	AISSMS IOIT,	100

		Series on Technical Paper Writing.	Pune	
2018	A. S. Deshpande	Faculty Orientation Workshop on BE (ETC) revised syllabus (2015 Course) Subject: Radiation Microwave Techniques	JSPMs I.C.O.E.R, Wagholi	500
2019	Mr. A. A. Trikolikar	ICCE2019	Springer	6000
2019	N.S.Labhade	NCAMEIM19	SPPU, Pune	900
2019	M.S.Patil	NCAMEIM19	SPPU, Pune	900
2019	D.A.Jadhav	NCAMEIM19	SPPU, Pune	900
2019	R.K.Sarawale	NCAMEIM19	SPPU, Pune	900
2019	Dr.P.S.Arora	NCAMEIM19	SPPU, Pune	900
2019	Dr. Joshi S. P. 3	NCAMEIM19	SPPU, Pune	1000
2019	Dr. Joshi S. P. 3	NCAMEIM19	SPPU, Pune	1000
2019	Dr. Joshi S. P. 3	NCAMEIM19	SPPU, Pune	1000
2019	Dr. Joshi S. P. 3	NCAMEIM19	SPPU, Pune	1000
2019	Lohote P. G.	NCAMEIM19	SPPU, Pune	900
2019	Bandgar and students	NCAMEIM19	SPPU, Pune	900
2019	Wankhede and student	NCAMEIM19	SPPU, Pune	900
2019	Wankhede and student	NCAMEIM19	SPPU, Pune	900
2019	R.S.Gorde	NCAMEIM19	SPPU, Pune	900
2019	Ubaid Shaikh	NCAMEIM19	SPPU, Pune	900
2019	Vineeth Katkam	NCAMEIM19	SPPU, Pune	900
2019	Shardul Kulkarni	NCAMEIM19	SPPU, Pune	900
2019	M A Khot	NCAMEIM19	SPPU, Pune	900
2019	Pratibha Jadhav 2	NCAMEIM19	SPPU, Pune	900
2019	Mahesh Khot	NCAMEIM19	SPPU, Pune	900
2019	Rushikesh D. Bhosale 1	NCAMEIM19	SPPU, Pune	900
2019	Pramodkumar	NCAMEIM19	SPPU, Pune	900

## 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)
2019	2 day FDP on "PLC and SCADA Basics of Programming"	2 day FDP on "PLC and SCADA Basics of Programming"	22/02/2019	23/02/2019	25	2
2018	"Introduction to Python Programming "	Three day FDP on "Introduction to Python Programming "	27/06/2018	28/07/2018	20	2
2019	One week FDP on "Teaching learning Resources"	One week FDP on "Teaching learning Resources"	10/12/2018	15/12/2018	179	2
2018	One week FDP on "Teaching learning Resources"	One week FDP on "Teaching learning Resources"	04/06/2018	08/06/2018	179	2

## 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
FDP on IOT	3	03/09/2018	02/01/2019	90
FDP on Cloud Computing	1	04/02/2019	05/04/2019	60
Data Science Big Data Analytics	2	05/03/2019	09/03/2019	5
Descriptive statistics with R software	1	12/02/2019	13/04/2019	60
Data Science and Big data Analytics	2	05/03/2019	09/03/2019	5

FDP on curriculum Enrichment for Mechanical engineering	179	11/06/2019	15/06/2019	5
NPTEL Course on Remote Sensing and Digital Image Processing	1	05/02/2019	06/04/2019	48
Faculty Orientation Workshop on BE (ETC) revised syllabus (2015 Course) Subject :Computer Network Security	1	09/07/2018	09/07/2018	1
Faculty Orientation Workshop on BE (ETC) revised syllabus (2015 Course) Subject:Mobile Communication	1	13/12/2018	14/12/2018	2
NPTEL Course on Microwave Theory Techniques	1	17/07/2018	18/10/2018	96
Two Day State Level Workshop on Design Challenges in Reconfigurable Antenna.	25	22/02/2019	23/02/2019	2
Faculty Orientation Workshop on BE (ETC) revised syllabus (2015 Course) Subject: Radiation Microwave Techniques	1	11/07/2018	11/07/2018	1
Two Day State Level Workshop on Research Methodology, Indian Patent Drafting Filing Procedure.	1	11/01/2018	12/01/2019	1

Two Days Workshop on Recent Advances in Remote Sensing Satellite Image Processing.	1	08/02/2019	09/02/2019	2
Expert Lecture Series on Technical Paper Writing.	2	20/03/2019	20/03/2019	1
Orientation Lecture on How to Write Effective Research Proposal for Funding	1	25/03/2019	25/03/2019	1
Faculty Orientation Workshop on BE (ETC) revised syllabus (2015 Course) Subject:Mobile Communication	1	13/12/2018	14/12/2018	2
A three day workshop on Artificial Intelligence Deep Learning	1	06/10/2018	08/10/2018	3
NVIDIA Lab Program, Image Classification with DIGITS Object Classification with DIGITS	1	08/12/2018	08/12/2018	1
NPTEL Course on Deep Learning	1	12/07/2018	10/10/2018	120
NPTEL Course on Introduction to Internet of Things	1	12/07/2018	10/10/2018	120
Industry Institute Interaction	1	27/03/2019	27/03/2019	1
Higher education review	1	02/11/2018	02/11/2018	1
Plumbing system design	1	30/07/2018	06/08/2018	5
Impact of	1	24/07/2019	25/07/2019	2

climate change on irrigation engg practices				
Sustainable material used in construction	1	11/06/2018	15/06/2018	5
Design of flat slab and introduction to vibration and earthquake analysis	1	31/07/2018	31/07/2018	1
"Finance Accounts" revised syllabus 2019.	1	28/06/2019	28/06/2019	1
FDP on Generic Elective Institute level courses, Foundation courses, Enrichment courses ASCC	2	10/07/2019	11/07/2019	2
FDP on Outcome based Education and COPO attainment	4	17/07/2019	18/07/2019	2
FDP on Generic Electives - University Level (Outcome Based Education)	1	06/07/2019	06/07/2019	1
FDP on Excellence in Technical Education: Issues and Challenges	1	24/08/2019	24/08/2019	1
NPTEL course on analog circuits	1	28/01/2019	22/03/2019	48
FDP on curriculum Enrichment	179	10/12/2018	14/12/2018	5
<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
179	179	96	25

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>• Provident fund, gratuity, group insurance , medical leave</li> <li>• For women employees maternity leave with full pay for six months.</li> <li>• On duty facilities and financial support for presenting research papers in India and abroad, visiting industrial centers, and for attending Conferences and Seminars</li> <li>• Deputation of faculty members for PG and PhD program.</li> <li>• Preferential selection on higher level post after acquiring desired qualifications</li> </ul>	<ul style="list-style-type: none"> <li>• Provident fund, group insurance facility.</li> <li>• Uniform (two sets every year)</li> <li>• Internal promotion to higher post after acquiring qualification and depending on availability of higher post.</li> <li>• Deputation for programs such as computer maintenance workshop, training for instructors working at Central Workshop facility.</li> <li>• Earned leave and medical leave,</li> <li>• For women employees, maternity leave with full pay six months</li> </ul>	<ul style="list-style-type: none"> <li>• Earn and Learn Scheme</li> <li>• Personality/Girls Empowerment Development</li> <li>• Special Guidance Scheme</li> <li>• Scholarship</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)

Institute has accounts and finance department to take care of efficient use of available funds for each academic year. The college has a well formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purposes. Towards this end, every year, the budget is prepared centrally well in advance after taking into consideration the requirements of every department coupled with the strategic objectives of the institution. The budget is reviewed by the management and approved after necessary changes. As and when required, the institute makes a provision for advance/additional funds. The Management approves the annual expenditure, scrutinizes the balance sheet and provides feedback for further optimal use of financial resources. Financial audits are conducted by a certified auditor every financial year to verify the compliance with established financial processes.

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
SPPU	2500	Nirbhaya kanya Yojna
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

20930000

#### 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	Yes	JSPM Group Corporate Team	Yes	AMC



Administrative	Yes	JSPM Group Corporate Team	Yes	Dean Administration
----------------	-----	------------------------------	-----	------------------------

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

Each department conducts Parent Teacher meet around mid of the semester. Departmental as well as institutional policies and strategies are discussed with the parents. As well as their view is taken into consideration for the development of the department. Also progress of their ward is discuses some of the suggestions given by the parents and the remedial actions taken are discussed below

1. Suggestion: Need of improvement by means of value added courses. Action Taken: Various value added courses planned executed.
2. Suggestion: Need of enriched learning atmosphere in institute. Remedial Action: Use of ICT increased.
3. Suggestion: Extra Classes For direct second year students. Remedial Action: Designed the timetable as per demand and arranged crash course in the end of sem.
4. Suggestion: Need of classes for competitive exams Remedial Action: Started classes for GATE students.

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

- Internal promotion to higher post after acquiring qualification and depending on availability of higher post.
- Deputation for programs such as computer maintenance workshop, training for instructors working at Central Workshop facility
- Their efforts and achievements are appreciated during the annual Gathering of JSPM Group

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

1. Incorporated new pedagogy for teaching and learning process. Internal class test on each unit/module and immediate evaluation and correction in terms of additional assignment is carried out.
2. Faculty course file Grading: At the start of each semester faculty member need to prepare the course file in the prescribed format. Based on the quality of the resource material of the course prepared grading of course file is done. Grading is carried out for Theory and lab courses separately This practice is followed in order to enhance the quality of the course material. The grading is carried out by the module coordinator and Dean Academics.
3. Project work from SE( Second Year Engineering) level: IQAC suggested to initiate the project development process from Second Year onwards. At SE level students need to finalize the domain and area of specialization in which they want to work. At TE level students need to acquire skill set and additional knowledge required for the project. At this level project development is initiated. At BE level project completion, report writing, Paper publication and patent filling is carried out.
4. Training and development cell: A special cell is created to take care of students requirement with respect to training and placement. Aptitude training, personality development resume writing, group discussion, personal interview practice, communication skill, presentation skill, student parliament etc are the activities carried out in this cell.
5. Senior/expert teacher allocation to lower classes like FE and SE
6. NPTEL Certification: motivated the faculty members for NPTEL certification of allied courses.
7. Single Window System: To facilitate Speedy Processing of Student documents, Single window system is incorporated
8. Decentralization of administrative responsibilities

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No
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
2018	Submission of Annual Quality Assurance Report to NAAC	26/12/2018	26/12/2018	26/12/2018	1
2018	NBA prequalifier Preparation for Computer engineering	01/06/2018	29/06/2018	29/06/2018	1
2019	Conducted twice central file audit at the end of the semester	21/11/2018	20/06/2019	26/06/2019	1
2018	Course file grading	18/12/2018	25/12/2018	28/06/2019	120
2019	Academics lecture monitoring	18/12/2018	27/06/2019	27/06/2019	120
2018	Conducted lecture on IPR drafting, filing and commercialization	01/08/2018	01/08/2018	01/08/2018	25
2019	Feedback from various Stakeholders (Faculty, Students Alumni) was collected, the feedback was analyzed and used for improvement	28/06/2019	28/06/2019	28/06/2019	17

**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
Nirbhaya Pathak	18/07/2018	18/07/2018	150	12

Awareness program for Girls students and Lady faculty members

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

Solar panel are installed on the campus rooftops to harness solar energy, the present solar panels generate energy equivalent to 10 KW Grid connected solar power plant. There are 31 Solar Modules of 325Wp (Renewsys), hot dip galvanized with 86 micron.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0

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
2019	1	5	25/01/2019	5	Adopted a village Pimpri Sandas	Helping Villagers	50
2018	1	1	01/08/2018	15	Swachh Bharat campaign Separation of wet and dry garbage	Cleanliness Awareness	100
2018	1	1	24/09/2018	1	Blood donation camp	Social Contribution	88
2019	1	1	14/09/2018	1	Ganesh festival	Feeling of togetherness	1500
2019	1	1	19/02/2019	1	Shiv Jayanti	Feeling of togetherness	1200
2018	1	1	24/07/2018	1	Tree Plantation Gov of Maharashtra initiative	For Environmental Health	200

2019	1	1	25/01/2019	1	Awareness of Implementing solar panels in adopted village	Ecofriendly environment	50
2018	1	1	20/11/2018	1	Road safety awareness program	Motivation to follow rules and regulation	60
2019	1	1	01/01/2019	1	Volunteers at Kore Gaon Bhima on 1st Jan 2019 for Vijay Din	Social contribution	30

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 for Faculty	11/06/2018	Followup is done whether faculty follow the rules and discipline while performing their duties.
Code of conduct for students	11/06/2018	All students will be monitored by faculty members of the department

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Thought writing on class room board and explanation given to all as a part of personality development	01/08/2018	14/04/2019	353
Cultural Program	11/02/2019	13/02/2019	50
Artistica (Notice board )	01/08/2018	14/04/2019	20
Raksha Bandhan Celebration for Indian Army Soldiers	07/08/2019	10/08/2019	94
Guru Pournima Celebration	16/07/2019	16/07/2019	54
National Youth Day	12/08/2018	12/08/2018	338
Internal Yoga Day	21/06/2018	21/06/2018	160
Blood Donation Camp	30/03/2018	30/03/2018	12

Orphanage Visit	15/09/2018	15/09/2018	8
Gandhi Jayanti A movement towards Non Violence	02/10/2018	02/10/2018	1
Bhagat Singh Jayanti	28/09/2018	28/09/2018	1

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

1. Tree Planation: Tree Planation is one of most ambitious initiatives of the Government of Maharashtra. With respect to this initiative Maharashtra Government had launched a massive drive to increase the green cover across the state. Planting trees and taking care of them is not less than any social work so NSS ICOER organized the tree plantation drive to support this initiative. Approximately 2500 Plants were planted in very discipline and in an organized manner.

2. Separation of wet and dry garbage: Waste segregation refers to the separation of wet waste and dry waste, the purpose is to recycle dry waste easily and to use wet waste as compost. When we segregate waste, there is reduction of waste that gets landfilled and occupies space, air and water pollution rates are considerably lowered. Due to this NSS ICOER create the awareness regarding separation of wet and dry garbage in adopted village from 25th Jan 2019 to 31st Jan 2019.

3. Implementing solar panels: No greenhouse gas emissions are released into the atmosphere when you use solar panels to create electricity. And because the sun provides more energy than well ever need, electricity from solar power is a very important energy source in the move to clean energy production. NSS ICOER students create the awareness of installing solar panels on home of villagers helps combat greenhouse gas emissions and reduces our collective dependence on fossil fuel.

4. Eco friendly Ganesh festival: During the festival of Ganesh Chaturthi, almost every other person welcomes Ganesha idols. However, these idols are mostly made of plaster of Paris that causes more harm to our environment than any good. NSS ICOER Celebrated an Ecofriendly Ganesh Chaturthi this year • Buying Eco friendly Ganesh idols. • Eco Friendly Ganpati Decorations. • Use Biodegradable Plates for Prasad. • Use Chemically Free Rangoli Colours.

5. Plastic free campus: Plastic can release harmful chemicals into the surrounding soil, which can then seep into groundwater or other surrounding water sources and also the ecosystem of the world. So the awareness regarding plastic free campus was introduced by the NSS ICOER. Following posters was prepared by the NSS volunteers. • Carry reusable shopping bags. • Give up bottled water. • Carry your own containers for takeout food and leftovers. • Carry a stainless steel travel mug or water bottle at all times for coffee and other drinks • Carry reusable utensils and glass drinking straws.

#### 7.2 – Best Practices

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

Best Practice - 1 1. Title of the practice: Faculty as a Mentor 2. Objective of the practice: To build cordial relationship between student and faculty and to make them comfortable with the new environment. Also to help them cope up with extensive engineering curriculum pressure. 3. The context: Once the environment is cordial and if the students are free from mental and emotional stress the teaching learning process becomes a success. The one to one interaction with the student helps the faculty members to understand them better and can monitor their progress. In this endeavor the institute has started Faculty as Mentor

activity. The activities come under Faculty as Mentor is shown in figure 1 below: Best Practice - 2

1. Title of the practice: Faculty Development Program
2. Objective of the practice: To enhance the knowledge, exposure and the confidence level of faculties by interacting with academic experts and industrial professionals. This also includes:
  1. To define content beyond syllabus and to formulate its delivery method.
  2. Defining the Planning - Teaching -learning Evaluation prescribed by SPPU for Theory and practical.
  3. Developing the Teaching -Learning Material for focused learning and Developing specified learning material / activities for academically weak and bright students.
  4. Developing Laboratory manual.

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

[https://jspmicoer.edu.in/pdf/IOAC\\_Best\\_Practices.pdf](https://jspmicoer.edu.in/pdf/IOAC_Best_Practices.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

The distinctive elements of the institute are summarized below

1. ICOER has achieved A grade with CGPA 3.05 by NAAC in the year 2017
2. Linkages with IBM, DellEMC2, Texas Instruments ,Reliance Jio, Microsoft, Bentley, Mitsubishi (most industrial linkages in the region)
3. ICOER has conducted EAD in association with IIT kharagpur
4. Institute is recognized as an off campus outreach center by IIRS, ISRO Dehradun
5. Institute have UGC 2f status
6. Two faculty members are elected as BOS ( Board of studies) member in Savitribai Phule Pune university
7. One faculty member chaired the panel in National level event " Edtech Review"
8. Two faculty members are certified charter engineer by Institution of engineersFellow program

Provide the weblink of the institution

[https://jspmicoer.edu.in/pdf/Institutional\\_Distinctiveness.pdf](https://jspmicoer.edu.in/pdf/Institutional_Distinctiveness.pdf)

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

1. Apply for NBA accreditation for all the departments.
2. Apply for Research center in Mechanical Engineering
3. Enhance IPR and technology Transfer Output
4. Sign more MOUs for UnderGraduate and post Graduate sponsored, innovative and interdisciplinary projects
5. Increase student participation at national level and government organized competitions