



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		JSPM'S RAJARSHI SHAHU COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. Rakesh Kumar Jain
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		02067127777
Mobile no.		9822746067
Registered Email		rscoe@jspm.edu.in
Alternate Email		principal@jspmrscoe.edu.in
Address		S.No. 80/3/1 , Tathawade Pune-Mumbai Bypass Highway
City/Town		Pune
State/UT		Maharashtra
Pincode		411033

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Urban</b>
Financial Status	<b>private</b>
Name of the IQAC co-ordinator/Director	<b>Prashant Kumbharkar</b>
Phone no/Alternate Phone no.	<b>02067127777</b>
Mobile no.	<b>9822933696</b>
Registered Email	<b>rscoe.naac@gmail.com</b>
Alternate Email	<b>pbk.rscoe@gmail.com</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://jspmrscoe.edu.in/naac_agar.php">https://jspmrscoe.edu.in/naac_agar.php</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://jspmrscoe.edu.in/pdf/calendar/Academic_Calendar_2018-19_SEM-I.pdf">https://jspmrscoe.edu.in/pdf/calendar/Academic_Calendar_2018-19_SEM-I.pdf</a>

**5. Accrediation Details**

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
<b>1</b>	<b>A</b>	<b>3.26</b>	<b>2017</b>	<b>30-Oct-2017</b>	<b>29-Oct-2022</b>

<b>6. Date of Establishment of IQAC</b>	<b>20-Jun-2014</b>
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**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
<b>Institute organized</b>	<b>10-Jan-2019</b>	<b>780</b>

National Level Technical event	02	
Board Of College and University Development (BCUD ) sponsored International Conference on	22-Feb-2019 02	100
AICTE Sponsored Unnat Bharat Abhiyaan	01-Jul-2018 15	50
International Conference on Advanced Trends in Computer Science and Information Technology organized by Computer Engineering Department	15-Mar-2019 02	87
Training on CNC and VMC given to SE students	01-Aug-2018 30	55
GATE and Competitive Examination training	05-Jul-2018 120	72
Robotics training given to students	05-Jan-2019 20	30
Inauguration of ISHRAE student chapter	25-Aug-2018 01	83
Training to student on TAL BRABO Robot, Industrial Visit Research work in Robotics	24-Jan-2019 01	26

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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Computer Engg. Department	Refresher course on Machine Learning	AICTE	2019 05	300000
Information Technology Department	QIP	BCUD-SPPU	2018 02	97000
Civil Engg Department I	International Conference	BCUD-SPPU	2019 02	186308
Civil Engg Department	MODROB	AICTE	2018 365	1278000
Civil Engg Department	Unnat Bharat Abhiyaan	MHRD	2018 365	50000

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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View Link</a>
<b>10. Number of IQAC meetings held during the year :</b>	3
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	<a href="#">View Uploaded File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

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

? Institute has achieved NBA Accreditation (All UG Courses) which is valid up to 30 June 2022. ? Institute has received Autonomous status from UGC for ten years wef Academic year 201819 to 202728 ? Academic Administrative Audit (AAA) conducted by JSPMs centralized Quality Circle Team and various schemes defined for Advanced and slow learners . As a result, we have accomplished excellent results in university examinations, Institute has produced 13 rankers in Savitribai Phule Pune University examination 201819 in various disciplines. Six rankers amongst top ten rankers in the university are from our Engineering institute. ? Achieved platinum Category for Academic Year 201819. ? Establishment of Best practices from student progression perspective such as Foreign language courses, Alumni interfacing and MoU with industries and foreign universities.

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

Plan of Action	Achivements/Outcomes
Extension of NBA Accreditation (All UG Courses)	Achieved extension of NBA Accreditation (All UG Courses) valid up to 30 June 2022
Academic Administrative Audit (AAA) by JSPMs centralized Quality Circle Team and various schemes defined for Advanced and slow learners .	Achieved excellent results in university examinations , Institute produced 13 rankers in Savitribai Phule Pune University examination 2018-19 in various disciplines. Six rankers amongst top ten rankers in Savitribai Phule Pune University are from our

	institute in Engineering
Participation in AICTE-CII survey of Industry linked Technical Institutes 2018	Achieved platinum Category for Academic Year 2018-19.
Formation of Governing Body, Academic Council ,BoS ( for all departments ) as per guidelines from UGC, as college granted Autonomous Status for 10 Years wef 2018-19 to 2027-28.	Approved detailed policy documents ,examination rules, credit system, syllabus (2019 Course) of First year B.Tech, M.Tech, MBA and MCA Course which is commenced from Academic year 2019-20.
Proposal submitted to Savitribai Phule Pune University for International Conference on "Futuristic ,Resilient and Smart Urban Development" organized by Civil Engineering Department.	Board Of College and University Development (BCUD ) sponsored International Conference on "Futuristic ,Resilient and Smart Urban Development" organized by Civil Engineering Department on 22nd & 23rd Feb 2019. 100 quality papers accepted for the conference.
Proposal submitted to JSPM Management for International Conference on Advanced Trends in Computer Science and Information Technology	International Conference on Advanced Trends in Computer Science and Information Technology was organized on 15th & 16th march 2019,87 quality papers accepted for the conference .
Proposal submitted for GATE and Competitive Examination training for students	GATE and Competitive Examination training was organized from 05th July 2018 to 15th January 2019.
Proposal for starting of ISHRAE student chapter for Mechanical Engineering	ISHRAE chapter inaugurated on 25th Aug 2018 and 83 students of Mechanical Engineering became members of this chapter.
Proposal for Fluid Power Society of India (FPSI) student Chapter.	Inauguration of Fluid Power Society of India (FPSI) student Chapter held on 30th Aug 2018 and 78 students became the members for FPSI chapter.
Proposal submitted for FDP on " Big data Anlytics and Machine Learning" to SPPU under QIP by Information Technology Department	Proposal was sanctioned by Savitribai Phule PUnе Univesity and accordingly FDP was conducted on "Big Data Analytics and Machine learning .
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes
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Name of Statutory Body	Meeting Date
IQAC	28-Dec-2019

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	No
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<b>16. Whether institutional data submitted to AISHE:</b>	Yes
Year of Submission	2019
Date of Submission	18-Dec-2018
<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)	1. Contineo is a pioneering software platform for implementation and administration of academic autonomy. Contineo executes full academic autonomy culminating in secure, confidential, accurate, efficient and auditable examinations of both the digitized answer script and conventional paper and pen variety. 2. Customized Moodle platform available for teaching learning. 3. Lecture capture facility available in the institute from Impartus. 4. Student section software. 5. Centralized Video Conferencing facility.

## 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

Institute is established with the objective of developing center of excellence for education in the field of engineering. Internal Quality Assurance Cell (IQAC) formulates and coordinates the activities to achieve the Vision and Mission of the Institute. Institute's vision, mission, objectives and quality policies are communicated to all stakeholders. Academic monitoring committee continuously monitors the course delivery to verify the implementation of lesson plan. IQAC takes input from academic monitoring committee reports, feedback from students, Alumni, parents, major recruiters and other stakeholders. IQAC along with college administration gives suggestions to improve teaching-learning process. Institute has a strategic plan for effective implementation of the curriculum. University provides opportunity to teachers in framing and drafting of the syllabus in various capacities like faculty participation, subject experts, Board of studies members, Academic council members. Some faculty members are members of Academic Council, Board of Studies in Savitribai Phule Pune University, Some faculty members are subject chairman of various Engineering courses of the university. Thus Institute plays vital role in design, development and implementation of curriculum. Action deployment: • At the beginning of the academic year, Head of the Department (HOD) conducts the meeting with DAC and faculty to discuss and finalize the academic calendar, time table, industrial visits, expert lectures, lecture capture schedule and the course file. • Department academic coordinator (DAC)

monitors the conduction of the scheduled activity. College academic coordinator (CAC) monitors the activities of each department through DAC meetings. • Faculty prepares the course file which contains vision, mission, academic calendar, session plan, lab plan, time- table etc • Continuous assessment with respect to practical, assignments and tutorial work is conducted on regular basis. • Conduction of Unit-test, Re-test, MCQ-tests, expert lectures, industrial visits, virtual lectures and project work assessment as per planned schedule. • Inputs are taken from experts of various industries, lead societies and academia in terms of meetings, mails and suggestions. Accordingly action plan is decided by the Internal Quality Assurance Cell (IQAC) for effective implementation of the curriculum. • Faculty development programme is conducted at the starting of the semester. Resource manuals and laboratory manuals of all the courses are prepared, Curriculum gap in the course are identified. Contents of Course File are: • Vision, Mission, POs, PEOs • Academic Calendar, Time Table • Session plan, Lab Plan • List of assignments • University Question papers with solutions • MCQs, Questionnaire • Web link, NPTEL link, Case studies • Result Analysis • Research paper link • Subject Notes Process • The records are checked by committees formed at college level and suggest the improvement, if any. • Unit tests and MCQ tests are conducted to assess the performance of the students. • Feedback of the students is collected for the improvement of the teaching-learning process. • Feedback from parents, alumni and various stakeholders is taken in parent teacher meeting, alumni meet at department level. As a result ,Institute produced thirteen rank holders in various disciplines in Savitribai Phule Pune University examinations during Academic year 2018-19.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

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

### 1.2 – Academic Flexibility

#### 1.2.1 – New programmes/courses introduced during the academic year

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

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	01/07/2018
BE	Mechanical Engineering	01/07/2018
BE	Computer Engineering	01/07/2018
BE	Information Technology	01/07/2018
BE	Electronics and Telecommunication	01/07/2018
ME	Structural Engineering	01/07/2018
ME	Design Engineering	01/07/2018
ME	VLSI AND EMBEDDED SYSTEMS	01/07/2018

ME	Computer Engineering	01/07/2018
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### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	0	0

## 1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Legal Aspects and Site Exposure in Civil Engineering	03/10/2018	85
Training on Road Safety	01/10/2018	100
Soft Skills Development	13/08/2018	60
Transferable Skills Development	03/09/2018	25
course on Japanese Language	02/07/2018	40
Hands-on-Training on Bentley Civil Engg. Softwares	25/09/2018	240
Microsoft Certificate Course for Python	26/09/2018	45
Microsoft Certificate Course for IOT	18/03/2019	38
Certificate Course in Robotics	10/12/2018	30
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### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	145
BE	Mechanical Engineering	216
BE	Mechanical Engineering	54
BE	Computer Engineering	151
BE	Information Technology	66
BE	Electronics and Telecommunication	107
MCA	Computer Application	11
MBA	Business Administration	60
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## 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

Feedback system is adopted in the institute for quality improvement in academics and curriculum development. Feedback is taken from different stakeholders such as students, industry experts, alumni, parents etc. This also helps in bridging the gap between the industry and the academia. Institute ensures a strong relationship with alumni and former faculty by arranging their sessions for students as and when required. The Institute invites its stakeholders to provide critical inputs for improving the quality of the curriculum through their feedbacks during the interactions. Feedback collected in online mode from students in specified feedback format and analyzed. Action taken report and feedback is available on the institute website. Student's feedback is used to improve the quality of delivery of subjects as well as overall personality development of the students. Information such as Action taken report of the Institution on feedback reported as minutes by the Governing Body of the institute. Analysis of feedback from students and stakeholders, student's success rate, employability of graduates, comparison with similar institutes is used to find possible ways for quality improvement. The Institute monitors and evaluates the quality of teaching-learning in the following ways:

- The performance of the faculty members are measured with the help of the performance based appraisal (PBA) system which helps in overall improvement of teaching quality.
- The Institute follows a well-organized feedback mechanism to augment the teaching learning process. A standard feedback questionnaire based on subject knowledge, teaching skill, punctuality, command on language etc. is designed.
- The feedback is collected twice in a semester from the students for all the subjects by the concerned Head of Department. Students can also give feedback through the suggestion box available in each department.
- Academic committee analyze the feedback of every subject and faculty member and also suggest corrective measures if feedback is poor. In second feedback, the progress of same is ensured by the academic committee. Students: Opinions expressed by the students is noted and the same is duly communicated to the University through the faculty who are members in the various boards of studies/syllabus committees etc. or forwarded to the university when suggestions are invited during syllabus revision.
- Alumni: The alumni of the college who are working in the various industries and working as a self entrepreneur gives their feedback of recent trends for effective curriculum implementation.
- Parents: In every semester Parent Teacher meet is conducted and the feedback is obtained regarding curriculum enrichment.
- Employers/ Industries: Representatives of various industries give extensive feedback regarding the employability of the students and their expectations from the students during the placement. These are communicated to the university through Board of studies.
- Department Advisory Board: The committee consists of experts from industry, academicians from different colleges and faculty members. Every semester, at the beginning of the academic session, a meeting is convened to review the overall attainment of the curriculum. Thereafter the curriculum gaps for next semester are identified and discussed to develop the mechanism for fulfillment.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
ME	VLSI & EMBEDDED SYSTEM	24	15	9
ME	COMPUTER ENGINEERING	24	20	15
ME	STRUCTURAL ENGINEERING	24	34	22
ME	DESIGN ENGINEERING	24	30	22
BE	INFORMATION TECHNOLOGY	126	126	126
BE	Electronics & Telecommunication	126	126	125
BE	ELECTRICAL ENGINEERING	63	63	46
BE	COMPUTER ENGINEERING	63	63	63
BE	CIVIL ENGINEERING	126	126	114
BE	MECHANICAL ENGINEERING	252	252	244

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## 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	3224	364	197	29	12

## 2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
226	198	10	20	7	15

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

Students mentoring system in RSCOE is known for its excellence in academics and an encouraging approach

towards co curricular and extracurricular activities. The focus on learning is through a combination of traditional classroom teaching, project based learning, internships, interdisciplinary projects, activities to enable the students to evolve into a dynamic professionals. • At the beginning of semester, GFM's introduce about the support system provided by institute in the academic, personal and psycho-social domain. The institute has a multi monitoring system consist of Academic coordinator, Departmental academic coordinator and Gardian Faculty Member (GFM). • Mentor and Mentee scheme is implemented to meet the academic and personal needs of students. • GFM system has helped to address the physiological and financial issues of students thereby reducing the dropout rate and boost the morale of students. For every 20 students, one GFM has been appointed. • GFM identifies slow learners and provides special attention to them thereby improving their academic performance. • Peer learning among the students is encouraged. • Professional counseling is done by Training Placement Coordinator and Training Placement Officer, Alumni and Industry experts. • Professional counselor is appointed to counsel the students. Barriers of learning and their remedies: Confidence of the students • By promoting students to organize and participate in various activities. • By organizing student centric seminars. • To boost the confidence of the students, institution conducts mock orals and practicals. • Conducts remedial classes for slow learners Communication skills • Language laboratory • By organizing and conducting sessions on: Soft Skill Learning and Employability Learning. Economic background • Institute has earn and learn scheme • Awareness regarding various Government/ University Skills and schemes. Emotional, Mental and Physical Health • GFM's regularly counsel students. • Professional counselor counsel the students. • Regular health check up of students from the consulting doctor. Recent trends and technologies • Organizing expert sessions/hands on training on recent trends and technologies. • Regular industry/Academic visits.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3591	226	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
52	52	0	52	5

### 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	Dr. J. A. Hole	Professor	Maharashtra Government Energy Saver Award by Hon. Energy Minister Shri Chandrashekar Bawankule and Hon. Minister Shri Girish Bapat on 27/07/2018.
2019	Dr. Trupti Prasanna Hinge	Associate Professor	POSOCO Power System Awards (PPSA) 2019 organized by Power System Operation Corporation (POSOCO) in collaboration of Foundation for Innovation Technology Transfer

			(FITT), IIT Delhi.
2019	Prof. Shaileja C. Patil	Professor	International Award by Venus International Foundation "Distinguished Woman in Engineering"
2018	Dr.A.M.Badadhe	Professor	NPTEL Elite Certification in "Engineering Metrology"
2018	Prof. V.S.Mahajan	Assistant Professor	NPTEL Elite Silver Certification in "Teaching and Learning in Engineering" (TALE)
2019	Prof. S. C. Wagaj	Associate Professor	NPTEL Elite Certification in "Information theory and Coding"
2019	Prof. V. S. Kulkarni	Assistant Professor	NPTEL Elite Certification in "Soft skill and personality development"
2019	Prof. Abhijeet Pradhan	Assistant Professor	Best Teacher NGO
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## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	614119110	VIII	27/05/2019	18/07/2019
BE	614119110	VII	11/12/2018	04/02/2019
BE	614119110	VI	12/05/2018	31/07/2019
BE	614119110	V	12/12/2018	24/01/2019
BE	614119110	IV	29/05/2019	21/07/2019
BE	614119110	III	13/12/2018	13/02/2019
BE	614119110	II	27/05/2019	24/07/2019
BE	614119110	I	29/12/2018	13/02/2019
ME	614119110	II	04/06/2019	21/08/2019
ME	614119110	I	27/12/2018	13/03/2019

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

Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level • The evaluation of projects is done by the industry experts during project review. • Remedial measures are taken by conducting tutorial classes to clarify doubts and re-explaining the critical topics. • Unit tests are conducted prior to sessional examinations. • Topic wise question banks are provided for all subjects. • Students are encouraged to solve previous years University Exam question papers. • For First Year students prelim exams are conducted prior to University Exams. • MOODLE learning Management System is utilized for Continuous internal evaluation like quiz and assignments. • Self-evaluation of students through LMS. • Mnemonics and mind mapping are included as an innovative practice. • The institute regularly conducts, group discussions, seminars and guest lectures. • Poor performance due to frequent absenteeism is dealt by sending registered letters to the parents of such students. • Monitoring the improvement in learning of slow learner and encouraging the advanced learners by reviewing their performance in exams. Institute has transparent continuous internal evaluation system which consists of internal assessment tests (twice in a term), re-test and evaluation of practical exercises. • Students attendance is regularly updated on Moodle. All students can view their attendance through their Moodle account. • Timely display of record of attendance and test result on notice board. • During the assessment of practical and oral, attributes like technical ability of student communication skill, logical understanding behavior of the student, personality, ethical values and professionalism is observed and rated. • The department communicates progress report of their ward to the parents to maintain the transparency. The redressal of grievances with respect to internal and university assessment is ensured as per the following process: At Institute Level : • For internal evaluation, each department has test coordinator for smooth conduction of internal tests. The results of evaluation are declared within eight days. The students can see their respective answer books and discuss their queries with concerned faculty members. The model answers are also discussed during lecture sessions. Thus, the concerned course faculty clarifies the doubts of the students regarding the internal tests. At University Level : • For University examination, University has appointed CEO to discuss the grievances, seek advice and take necessary action. • For problems related to mistakes in examination forms, conduction of online and in-semester examinations, the institute solves the issues through proper channel and helps the students regarding the same. • In case of issues related to reevaluation, rechecking, and photocopying of the answer books, institute helps students to resolve the problem as per university guidelines and following proper channel to solve the issues.

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

Academic calendar prepared and adhered for conduct of Examination and other related matters: As college is affiliated to Savitribai Phule Pune University , Academic Co-ordinator (AC) prepare academic calendar at the beginning of each semester in line with Academic Calender of affiliated university for commencement and conclusion of term, Practical/Oral and Theory examination. It also includes different activities like tests, assignment execution, seminars, workshops, industrial visits, cultural-social-technical activities and schedule of meetings with Principal, academic coordinator and HOD. Departmental academic coordinator (DAC) is responsible for maintaining records of monthly attendance, status of syllabus completion and records of GFM activities. GFM is a guardian faculty member of a particular class who plays important role in mentoring of students, monitoring their attendance, preparation of monthly attendance.GFM also acts as mediator between institute and parents. In each department there is a program coordinator under whom, according to specialization, modules are formed. Each module is coordinated by module coordinator. For a particular

course one faculty is appointed as course coordinator. Course coordinator along with other subject teacher prepares teaching plan, practical plan, unit wise question bank, MCQs, assignments of respective subjects. One of the advantages of implementing the multi monitoring system in an institute is that it leads to an efficient exchange of information. Departments work in coordination to solve the issues. Efficient lines of communication enhance productivity and allow for quick decision-making. Heads are involved in the day-to-day operations, which allow them to make decisions through the viewpoint of subordinates. This system helps in overall development, achievement of students which is beneficial for growth of the institute. The management appointed Campus Director who supervises and coordinates all activities of the campus. Principal as a head of institute monitors whole system at the academic as well as at the administrative level. His leadership is inextricably linked to student performance. The contribution of leadership strengthens overall culture of college.

## 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://jspmrscoe.edu.in/po\\_psc\\_co.php](https://jspmrscoe.edu.in/po_psc_co.php)

### 2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
614129310	BE	Electronics & Telecommunication Engineering	146	136	93.15
614161210	BE	Mechanical Engineering	312	287	91.98
614124510	BE	Computer Engineering	137	136	99.27
614124610	BE	Information Technology	74	72	97.30
614119110	BE	CIVIL ENGINEERING	164	150	91.46
614524510	ME	Computer Engineering	11	10	90.9
614121210	ME	Structural Engineering	20	18	90
614134110	ME	VLSI and Embeded System	5	5	100
614160110	ME	Design Engineering	10	9	90
614110110	MBA	MBA	56	55	98.2

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## 2.7 – Student Satisfaction Survey

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

[https://jspmrscoe.edu.in/naac\\_sss.php](https://jspmrscoe.edu.in/naac_sss.php)

## 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
Major Projects	365	TCS-EON	2.5	2.5
Major Projects	365	Bhairavnath Sugar Works Ltd	4.5	4.5
Industry sponsored Projects	365	Bhairavnath Sugar Works Limited , Sonari	3.4	3.4
Industry sponsored Projects	365	Y.P.Enterprizes Pune	5	5
Industry sponsored Projects	365	Rutuja Energy Solutions Pvt.Ltd. Pune	2	2
Industry sponsored Projects	365	Autonetics pvt ltd Nashik	5	5
Projects sponsored by the University	365	BCUD-Savitribai Phule Pune University	6.5	6.5
Projects sponsored by the University	365	BCUD-Savitribai Phule Pune University	0.97	0.97
Projects sponsored by the University	365	BCUD-Savitribai Phule Pune University	2	2
Any Other (Specify)	365	AICTE	12.78	12.78

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### 3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Workshop on IPR	MBA	10/10/2018
Workshop on Remote	Electronics and	08/02/2019

Sensing under Industry Academica Innovative Practices	Telecommuincation	
Workshop on Machine learning under Industry Academica Innovative Practices	Electronics and Telecommuincation	04/12/2018
Bridging the Industry Institute Gap by inculcating Best Practices	Computer and Information Technology	20/06/2019
Guidelines for writing the research paper	Computer Engineering	04/07/2018
Patent filing guidelines	Computer Engineering	25/09/2018
Innovative projects for Industrial Sector	Electronics and Telecommuincation	18/07/2018
Seminar on IPR and Patents	Information Technology	03/10/2018
One day Workshop on "Application of IOT, Big DATA and Machine Learning in Various areas of Mechanical Engineering"	Mechanical Engineering	29/09/2018

### 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
Project in Avishkar2018	Team Avishkar	Savitribai Phule Pune University	16/03/2019	State Level
GoCart Best Caption Award	Team GoCart ( Mechanical Department )	India Carting	24/02/2019	State Level
Best Cost Vehicle in SUPRA2018	Team Redline ( Mechanical Department ) Racing	Society of Automotive Engineers (SAE) Maruti Suzuki	16/06/2019	National Technical Event
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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
RSCOE	Gaurav Ambep	Nil	Technotron Digital Pvt.Ltd	Software Web application development	10/12/2018
RSCOE	Harsh Sharma	Nil	Pepue Technologies	Software and Web Application	24/06/2019
RSCOE	Ashish Dhandar	Nil	Indelible IT Solutions	Software and Web Application	02/07/2018



RSCOE	Ashish Barge	Nil	M/S A.S.Barge	Civil Engineer and Contractor	03/06/2019
RSCOE	Raturaj Shinde	Nil	Technovo.in	3D Printing ,laser Cut	10/12/2018
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### 3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
8	3	3

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

Name of the Department	Number of PhD's Awarded
Electronics and Telecommunication Engg	3

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)
National	Electrical Engineering	1	1.07
National	Master of Business Administration (MBA)	2	4.5
International	Information Technology	14	2.1
International	Electrical Engineering0	4	2.1
International	Civil Engineering	3	1.07
International	MCA	4	04
International	Master of Business Administration (MBA)	6	5.5
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
MBA	8
Information Technology	14
Civil Enggineering	15
Electronics and Telecommunication	10
Mechanical Engineering	19
Computer Engineering	41

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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Failure Analysis of Tube Header of Evaporator	Dr. A.M. Badadhe	International Journal for Scientific Research Development	2018	10	JSPM's Rajarshi Shahu College of Engineering, Pune	9
An Approach to predict hypertension based on handwritten manuscript	Prof. S. V. Kedar	Indian Journal of public Health Research and Development	2018	89	JSPM's Rajarshi Shahu College of Engineering, Pune	89
Online Analysis of Handwriting for Disease Diagnosis: A Review	Prof. S. V. Kedar	International Journal of Engineering and Technology	2018	89	JSPM's Rajarshi Shahu College of Engineering, Pune	88
Nanoscale shielded channel dual gate stack silicon on nothing junctionless transistor for improving short channel effect and analog performance	Prof. S .C .Patil	International Journal of Electronics Letters, Taylor and Francis.[SCI Indexed Journal]	2018	101	JSPM's Rajarshi Shahu College of Engineering, Pune	101
Dual Material Gate Silicon on Insulator Junctionless MOSFET for Low Power	Prof. S .C .Patil	International Journal of Electronics, Taylor and Francis.[SCI Indexed Journal]	2018	101	JSPM's Rajarshi Shahu College of Engineering, Pune	101

Mixed Signal Circuits"		Journal of computational information systems				
Sentiment Classification using RNN	Prof. K. P. Moholkar	Springer Lecture notes on Data engineering and Communication and Technologies	2018	24	JSPM's Rajarshi Shahu College of Engineering, Pune	24
Privacy Preserving Model using Homomorphic Encryption	Prof.Asha Kiran S	International Journal of Computer Applications, ISSN: 0975-8887	2018	20	JSPM's Rajarshi Shahu College of Engineering, Pune	20
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Gait Recognition Using Normal Distance Map and Sparse Multilinear Laplacian Discriminant Analysis	Prof. S .C .Patil	International Journal of Electronics Letters, Taylor and Francis.[SCI Indexed Journal]	2018	3	101	JSPM's Rajarshi Shahu College of Engineering, Pune
Nanoscale shielded channel dual gate stack silicon on nothing junctionless transistor for improving short channel effect and analog performance	Prof. S .C .Patil	International Journal of Electronics Letters, Taylor and Francis.[SCI Indexed Journal]	2018	7	101	JSPM's Rajarshi Shahu College of Engineering, Pune

Sentiment Classification using RNN	Prof. K. P. Moholka	Springer Lecture notes on Data engineering and Communication and Technologies	2018	7	24	JSPM's Rajarshi Shahu College of Engineering, Pune
Generalized modeling of body response of acoustic guitar for all frets using a response for single fret	Dr.S.D.Apte	Applied Acoustics 145 (2019) 439-444, Elsevier, Science Direct	2018	5	89	JSPM's Rajarshi Shahu College of Engineering, Pune
Equilibrium and kinetics modeling of fluoride adsorption onto activated alumina, alum and brick powder	M.R.Sharma	Groundwater for Sustainable Development	2018	2	24	JSPM's Rajarshi Shahu College of Engineering, Pune

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	3	41	97	142
Resource persons	2	3	10	13
Presented papers	70	10	3	5

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### 3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
River Cleaning	Rotary Club,	5	63

project	Walhekarwadi, Pune		
Tree Plantation	Rotary Club, Dehu Road	3	35
Session On Cyber Crime	Police Pune Division	5	100
Session On Road Safety	Police Pune Division	5	100
Blood Donation Camp	NSS Mechanical Engineering Students Association	4	74
Tree Plantation- Waghjai hills	Sanskar Pratishthan, Pune	4	35
Clean India	Green Hills Group Pune	2	25
Students Awareness and Training Program to Orphans	Navakshitij, Pune	4	25
Fund raising for Aadhar Dattak Sanstha.	Adhar Dattak Sanstha	3	25
Udan Innovation programme	Future Group	1	18
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
SUPRA 2018	First Best Cost Vehicle Award	Society of Automotive Engineers (SAE) and Maruti Suzuki	27
Summer Youth Summit 2019	Recognition for the participation	Sakal Media, Young Inspirator's Network, MS	38
NSE Training - A Thicket of 5 trees	Recognition of the participation	NSE Academy	25
Blood Donation	Award	Akshay Sahaydri Hospital Blood Bank	150
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Electrical Safety Awareness	Energy Conservation Week Campaign	Awareness about Electrical	5	115

Session	by Government	Safety among school students.		
Women Safety	Deputy Commissioner of Police, Pune and YIN	Women Safety and Awareness Program	4	37
Traffic Safety Week	Traffic Police Department, Pune	Traffic Safety awareness program	5	88
Swachha Bharat	AICTE	Swachha Bharat	4	35
Road Safety Awareness	RTO, PCMC NSS, SPPU	Road Safety Awareness Programme	2	54
Unnat Bharat Abhiyaan	MHRD Govt of India	Unnat Bharat Abhiyaan	5	45
Clean India	Green Hills Group Pune	Clean India	2	25
Students Awareness and Training Program to Orphans	Navakshitij, Pune	Social	4	25
Tree Plantation	Rotory Club, Walhekarwadi, Pune	Social	5	63
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### 3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Research Project	05	Central Water and Power Research Station	200
Research Project	04	Manas Automotive Systems Ltd	180
Research	30	Design Tech Academy, Pune	180
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant

Patron Member	Internship	Building Association of India (BAI)	22/12/2018	12/01/2019	20
MOU	Zensar ESD	Zensar Technologies	02/07/2018	20/07/2018	67
Internship	TCS remote Internship	Tata Consultancy Services	01/07/2018	14/08/2018	50
Internship	MoU	Tata Automation Ltd ,Robotics	17/06/2019	22/06/2019	26
Internship	Internship	Bajaj Auto PVT LTD, Akurdi yamunanagr. pune	10/06/2019	06/07/2019	5
Internship	Internship	Forbes Marshall Ltd. Aurangabad	17/06/2019	05/07/2019	5
Project work	Internship	Unique Pressing, Chakan Pune	10/06/2019	30/06/2019	5
Project work	Internship	Godrej Boyce, Vikhroli Mumbai	01/06/2019	29/07/2019	4
Research work	Internship	ARAI, Chakan, Pune	10/06/2019	13/10/2019	55
CSR	Training and Skill Development	Zensar Technologies Pune	02/07/2018	15/07/2018	45
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Abhijeet Engineers	08/07/2018	Internship or in plant training Sponsorship project for BE students	8
Manas Automotive Systems Ltd	10/10/2018	Sponsorship project for BE students, Industrial Visit	8
Pooja Castings Pvt. Ltd	26/12/2018	Sponsorship project for BE students Expert	8

		lectures	
TAL Manufacturing Solutions limited, (A Tata Enterprise)	24/01/2019	Training to student on TAL BRABO Robot, Industrial Visit, Research work in Robotics	26
SSIG Manufacturing Advancements Pvt. Ltd.	20/04/2019	Training to student on Robotics	30
Bentley institute	23/07/2018	Training on Bentley Software tools	200
Microsoft ATS Academy	02/07/2018	Training on Microsoft Certification	150
Zensar ESD Program	10/06/2019	Training on Ad.Java, Softskills	300
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#### CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
34.49	33.36

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Laboratories	Newly Added
Classrooms with LCD facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Existing
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##### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Autolib	Fully	Web OPAC	2008
Contineo	Fully	Contineo	2019

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
<b>No Data Entered/Not Applicable !!!</b>			
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.A.M.Badadhe	Hydraulics Pneumatics	RSCOE Moodle	02/07/2018
Dr.N.K.Nath	Material Science	RSCOE Moodle	02/07/2018
Prof. Akhil R. Joshi	Thermodynamics	RSCOE Moodle	02/07/2018
Prof. S.L.Pachpute	Manufacturing Process	RSCOE Moodle	18/06/2018
Dr.Mrs.Minaxi Rai Sharma	Transportation Engineering	RSCOE Moodle	02/07/2018
Mr. Joshi Hemant J.	Structural Engineering	RSCOE Moodle	18/06/2018
Dr.S.N.Khan	Design of Machine Element	RSCOE Moodle	02/07/2018
Prof. S. B. Javheri	Information and Cyber Security	RSCOE Moodle You tube Channel	02/07/2018
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#### 4.3 – IT Infrastructure

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

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1120	66	160	1	1	1	7	160	0
Added	60	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1180</b>	<b>66</b>	<b>160</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>160</b>	<b>0</b>

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

160 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
RSCOE Moodle	<a href="http://103.68.11.172/rscoe">http://103.68.11.172/rscoe</a>
Imparatus video lecture capture facility installed at the institute	<a href="http://a.impartus.com/login/#/">http://a.impartus.com/login/#/</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

12.1

11.71

15.64

15.13

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 infrastructure comply with the norms of AICTE and Savitribai Phule Pune University. The institute ensure the availability of latest equipments and up-to-date infrastructure in the institution. There is a predefined procedure for the purchase as well as maintenance of these infrastructural facilities and work done through regular meetings of various committees constituted by the management of the institute. At the end of academic year stock verification is done by the institute. Laboratory- Equipment maintenance record is maintained by concerned lab incharge and supervised by Head of department. The calibration, repairing and maintenance of lab equipments are done by the technicians through related vendors. There is systematic disposal procedure for all types of waste such as chemicals/e-waste etc. Library:- The college has Central Library along with departmental libraries. Library circulates the catalogues of available and new arrival books, journals, e-Journals among faculty members of each department, so that they can raise the requirement of new books, journals. Institute makes a separate budgetary provision for procuring new books and journals every year. The procurement list is finalized by Library Advisory Committee. The proper account of visitors (students and staff) on daily basis is maintained. Other issues such as weeding out of old titles, schedule of issue/ return of books etc are chalked out / resolved by the library committee. Library is equipped with OPAC for online access of library resources which are accessible in the campus. Sports: - Institute has sports facility for indoor and outdoor games .Sports director is appointed by the institute to carryout indoor/outdoor sports activities. Computers: - The institute has more than 1000 Computers, Institute has a 3 Tier Structured LAN facility architecture comprising of core, distribution and access. Computer maintenance is done through AMC regularly and non-repairable systems are disposed off. Campus is WiFi Enabled which has 160 Mbps Internet connectivity. Additionally:- The college establishment section regularly monitors and supervise the available infrastructure to ensure its upkeep, repair and other maintenance. With the help of full time sweepers cleanliness is maintained. They are well equipped with modern tools of cleaning such as mops, gloves and vacuum cleaner. A complaint register is maintained in office in which students as well as faculty can register their problems which are resolved within a set time frame. Students are sensitized regarding cleanliness and motivated for energy conservation by careful use of electricity in classrooms. The institute has its own workshop where furniture repair is done without any charges. There are technicians, masons, plumbers, carpenters deputed by management who ensure the maintenance of classrooms and related infrastructure. Regular cleaning of water tanks, proper garbage disposal, pest control, landscaping and maintenance of lawns is done by the Institute .The equipments like generators, water pumps, water purifiers and water coolers are also taken care of either by AMC or time to time inspection. Fire extinguishers have been installed at identified locations. Institute has good canteen facility and ample parking space. Institute is secured through CCTV's surveillance and provided Backup of generators.

[https://jspmrscoe.edu.in/institute\\_best\\_practices.php](https://jspmrscoe.edu.in/institute_best_practices.php)

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
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Financial Support from institution	University Toppers	3	100000
Financial Support from Other Sources			
a) National	Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna (EBC), Post Matric Scholarship to OBC, SBC, VJNT Students, Freeship, Scholarship	2800	164102882
b) International	nil	0	0
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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
Meditation Stress Management	11/08/2018	60	Mrs. Ashwini Joshi
Soft Skill training	18/09/2018	32	Silver Tongued Club
Workshop on "Heart-fulness Relaxation and Medita-tion"	06/08/2018	65	Association of Computer Engineering Department
Session on Elements of Iconic Career	14/08/2018	53	Association of Computer Engineering Department
Meditation	08/08/2018	52	Heart fullness Organisation
Mind Power Session	12/09/2018	60	Private Counsellor
Meditation	02/01/2019	54	Happy thoughts
Interview Skills Group Discussion	12/02/2019	50	Welkin India Prof.Rajesh Vatkar
Training on FEA and CFD Software under Modelling and Analysis Club	23/08/2018	28	Siemens Ltd.
<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	Number of benefited students by	Number of students who have passed in	Number of students placed

		competitive examination	career counseling activities	the comp. exam	
2018	Session on importance of Competitive Exams	165	151	1	1
2018	Session on Career options and micro conceptions for TE students	87	87	0	71
2018	Career guidance session for TE Students	65	40	0	21
2018	GATE ASPIRANTS	29	29	3	0
2018	Industry relevant Skills & Development	0	102	0	35
2018	GATE Training	72	72	4	4
2018	UPSC Guidance	23	23	0	0
2018	MPSC Guidance	34	34	1	1
<a href="#">View File</a>					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	15

## 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
TCS ( DIGITAL NINJA ), Bosch Ltd, Ultratech , Prototech , Fiserv, Capgemini, Sankey	720	471	DAS Offshore Pvt. Ltd, Goraksh Construction , Mindtree, Tech mahindra,	249	53

Solutions, New York Engineering, Pincl ick, Zensar Technologies, Vodafone, CONTINENTAL, Amazon, Qspider etc.			Infosys, Wipro, Xoriant, Bitwise, Cognizant, Amdocs, Amazon etc.	
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	1	Civil Engineering	Civil Engineering	NICMAR	PGDM
2018	5	Civil Engineering	Civil Engineering	Walchand Institute of Technology, Sangli	MTech
2018	1	Information Technology	Information Technology	IIT Kharagpur	MTech
2018	3	Computer Engineering	Computer Engineering	University of Kaiserslautern, The Graduate School UNC Charlotte	MS
2018	6	Electronics Telecommunications	Electronics Telecommunications	CDAC, PGDM Vector, California state University, National College of Ireland, University of Michigan,	PGDM ,MS

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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	7
GRE	2
TOFEL	1
Civil Services	1
Any Other	5

[View File](#)

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

Activity	Level	Number of Participants
Rangoli Competition	Institute level	30
Antakshari	Institute level	62
Group Dance	Institute level	86
Poem writing competition	Institute level	27
Basketball	Institute level	56
Vollyball	Institute level	42
Cricket	Institute level	160
Badminton	Institute level	16
Kabaddi	Institute level	46
Foot Ball	Institute level	56
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### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Gandhaar -18	National	0	2	71541455M	Sweta Nemade
2018	Impulse-18	National	0	3	71822216E	Pratap Nayak
2018	Equilibria	National	1	0	71713406H	Rohan Raut
2018	"Jeevan Gourav Award"	National	0	2	2051703472	Ankita Nagarkar
2018	Best Shahir Purskar	National	0	1	71713206E	Mr. Saurabh Kawade
2018	winner of Badminton Tournament -2018 organized by Ultra Engineers	National	1	0	71821724B	Mr. Atharva S. Churi
2018	Player of the Match in Youth Sports organised by Reliance	National	1	0	71713476J	Mr. Dilkhush Singh

	Foundation					
2018	Gold medal for carrom in 5th Student Olympic Association, India National Games 2018-19 held at Lovely Professional University, Punjab.	National	1	0	71744309E	Mr. RushikeshSurya wanshi

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

The selection of Student Council is as per provisions of the Maharashtra University Act. It consists of a male and female student representatives. Institute encourages and motivates the students to actively participate in different extracurricular and co-curricular activities like Technical Events, Quiz Competitions, Project competitions, cultural events, Sports, Debate, Games, and Discussions etc. Selection: The students are selected by selection committee based on their interest, communication skill, active participation in various events etc. Constitution: The student secretaries are selected based on interview by a committee consists of Campus Director, Principal, Executive Director and faculty in charges. Activities: Cultural events, sports, technical events are organized and conducted. Respective authority supports the student representatives to conduct the activities. Funding: Institute bears all the expenses related to travelling, accommodation, food, registration etc for activities conducted. The following are the various academic and administrative bodies: • Student Council • Cultural Extra-co-curricular activity • IQAC, DAB, Focus group • All Student Chapters like IEEE, ASME, ISHRAE, CSI, BAI etc • Anti-ragging Committee • Hostel committee • NSS (National Service Scheme) • Departmental Students Associations • Earn and Learn Scheme of SPPU • Institute Research Committee • Library Committee, Canteen Committee • Entrepreneurship Development Cell • Various Clubs are formed to carry out technical as well as non-technical activities Each department has appointed student Welfare coordinator, Sports coordinator and Cultural coordinator. Dedicated infrastructure is available for 'Rangbhumi' where the students carry out their practice related to different events. 'Rangbhumi' is an amalgamation of the artistic elements comprising of acting, dance, music, sketching, painting and various related things. The students of our college have been participating in various intercollegiate events and have achieved glorious success in these competitions. Students bagged many prizes in prestigious 'Firodiya' and 'Purushottam' intercollegiate karandak during academic year 2018-19. Physical Director is appointed to guide the students in different sports related activity. Newsletters and wall magazine are periodically published by every department that highlights achievements of the students. Institute also publishes a yearly magazine called 'Kala Avishkar' in which students write articles on technical and social issues.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Association The objective of the Alumni Association of Rajarshi Shahu College of Engineering is to reach, engage and serve all alumni, present students by networking with one another to foster a life-long intellectual and emotional connection between the institute and its graduates. The professional success of alumni can be considered as the yardstick of an institute's success. Rajarshi Shahu College of Engineering, Pune has produced technocrats, leaders, entrepreneurs, researchers and global managers. Our alumni are instrumental in enhancing the Institute's fame locally and globally. The Institute's participative culture has always ensured that our alumni are encouraged to stay connected with their alma mater and inspire and motivate current students. The active network and collaboration with alumni and former faculty helps the institute in overall development by following ways: • Registered alumni association • Alumni meeting is organized every year • Alumni is informally a part of the teaching learning process through expert lecture, project co guides, organizing industrial visits and mentoring students. • Alumni are in communication with the institute through Social networking sites like Facebook, WhatsApp, Google drive, V-chat. Alumni can access day to day activities of institute through website and can give their valuable suggestions. • Former faculties are invited as experts for the relevant subjects in teaching learning process, FDP, during project exhibitions, for technical competitions as judge, workshops, seminars etc. Registration Date Year: 06th March 2007 Registration Number: MH/365/2007/Pune Number of Alumni : 7289 Number of Alumni Meets Held so Far: 11 Alumni Portal: [www.rscoe.univibenetwork.in](http://www.rscoe.univibenetwork.in) Alumni Presence is across the Globe: USA, Europe, Australia, UK, Dubai, Singapore, Japan etc.

5.4.2 – No. of enrolled Alumni:

7289

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

156000

5.4.4 – Meetings/activities organized by Alumni Association :

Training and placement cell and members of alumni association guide the students for placements and for career progression. Every department invites Alumni on routine basis to conduct various sessions. Training sessions equip the students in technical life skills. They are also trained for interviews, group discussions and aptitude tests through different sessions. The active network and collaboration with alumni helps the institute in overall development by following ways. • Registered alumni association. • Alumni are informally a part of the teaching learning process through expert lecture, project co-guides, organizing industrial visits and mentoring students. • Alumni are in communication with the institute through Social networking sites like Facebook, WhatsApp, Google drive, V-chat. • Alumni can access day to day activities of institute through website and can give their valuable suggestions. • Organize Alumni meet in the institute

**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)

Decentralization : Institute has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance system. Participative management : The institute



promotes a culture of participative management by involving the staff and students in various activities. All decisions of the institution are governed by management of facts, information and objectives. Both students and faculties allowed to express themselves of any suggestions to improve the excellence in any aspect of the Institute. The college understands and promotes the importance of participative management to motivate employees at all levels to improve quality and efficiency. • The institute has a well-defined mechanism to monitor effective and efficient utilization of available financial resources for the development of the academic processes and infrastructure development. • Institutional budget is prepared every year taking into consideration of recurring and non-recurring expenditures. Case study: 1. Centre of Excellence in Robotics and Automation created in association with Tata Automation Ltd. in the campus during academic year 2018-19 which brings together students and faculties from different disciplines. Proposal was prepared along with the budget by the concerned departments with the help of students and faculty members, after discussions at various administrative levels, Governing Body sanctioned Rs.10.68 Lacs and We are now starting programs that focus on educating students in the world of automation and robotics in a multi-disciplinary approach. The laboratory develops fundamental understanding in autonomous mobility and robot cooperation, and provides computational algorithms for increasing cooperative mobility of mobile robotic systems. 2. Academic Monitoring Committee (AMC) AMC is centralized (Institute level) committee responsible for drafting, regulating and implementing different academic policies. It is meant for smooth uniform conduction of academics throughout the institute. AMC is headed by the Principal of the institute. Other members of the committee are Academic Coordinator, subject experts for respective subjects, class teachers and exam in-charge. Activities conducted by AMC: o AMC monitors the teaching learning process. It prepares the academic calendar of the institute which is a reflection of University's academic calendar that includes curricular, co-curricular, extracurricular activities. o Academic co-ordinator is responsible for confirmation and observation of academic activities. o Academic co-ordinator confirm lab and course file audit, does defaulter counseling, takes action against findings, issues appreciation and show cause notice and gives input to IQAC. o AMC does lab and course file audit before commencement of semester and in the middle of semester, random confirmation of attendance once in a month, gives feedback to Principal. o Class Incharge ensures smooth conduction of practical and lecture of class, Prepare roll call list, does result analysis, takes feedback and syllabus coverage after 15 days, does student counseling and undertaking two times and takes monthly attendance. o Class Incharge conducts average, weak and advance learner activity at class level and gives feedback to department AMC. o The students whose attendance/performance is poor are identified by the GFM and the same is informed to the parents through telephonic conversation and by post.

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
Admission of Students	An alumni network works hugely in favour of the institute. It is very useful in networking and making connections across the globe. It refers to the institute to potential admissions. It can function across various platforms like LinkedIn,

Facebook, Instagram,Whatsapp etc.  
 Institution publishes the information prospectus annually. This prospectus is given along with application form to every candidate who takes admission to the institute. The prospectus also has information about ethics, code of conduct, facilities in campus, learning resources provided to students, training and placement activities, centralized computing centre, campus-wide networking, eligibility criteria for admission and information about the departments

Industry Interaction / Collaboration

Industry connect through MoUs, Sponsored projects and internship training with TAL Manufacturing Solutions Ltd. (A Tata Enterprise) , Abhijeet Engineers, Manas Automotive Systems Ltd, Pooja Castings Pvt. Ltd, SSIG Manufacturing Advancements Pvt. Ltd. TCS has offered Remote Internship program for our students. Zensar Technologies offered 250 Hrs training for our third year students. ISHRAE student chapter and Fluid Power Society of India (FPSI) student Chapter are formed for mechanical Engineering students. Industry interaction helps in latest insight into the emerging technologies and advancement, experts from various industries and institutes are invited for expert sessions organized during Academic Year 2018-19.

Human Resource Management

- The Governing Body has prepared HR policy for recruitment. Affiliated university gives guidelines for reservation of various posts. HR policy guides recruitment of faculty and non-teaching members, retention of recruited personnel and recognition of service through promotion and other developmental opportunities. Objectives of human resource management are focused on maximizing employee performance. Faculty Development Programs are arranged regularly to enhance skills of faculty members. The management guides faculty members to achieve the goals and objectives of the Institute for quality education.

Library, ICT and Physical Infrastructure / Instrumentation

Institute facilitated the extensive use of ICT resources like MOODLE helps faculties to create their own dynamic courses that extend learning, anytime, anywhere. Moodle has wide range of standard and innovative features.

Institute has video conferencing facility with movable camera and P.A. system. The expert lecture delivered at centralized location can be broadcasted simultaneously across all campuses of JSPM. Students of RSCOE can take benefit of VC facility. They can also interact with subject expert. Students use online virtual laboratories developed under MHRD-NMICT for demonstration of experiments that would help them in learning basic and advanced concepts through remote experimentation.

Research and Development

- Identification of thrust areas in Engineering and Sciences.
- Up-gradation of Research laboratories
- Incentives for Research and IPR activities, funds for Research from various funding agencies and industries
- Encourage UG and PG students to undertake real time projects from industries as well as projects of societal concern.
- MoUs with reputed National and International organizations/ industries
- Strengthen association with research organizations and industries such as International Society for Automation, Defense Research and Development Organization, Automotive Research Institute, IITs, NITs.
- Joint research with industries and co-guides from universities of National and International repute.

Examination and Evaluation

To monitor the student progress, LMS such as Moodle, Inpods are used. Institute has transparent continuous internal evaluation system which consists of internal tests and evaluation of practical exercises. Brain storming and question-answer sessions are conducted and the ideas are evaluated at end of the session. Group discussion and critical problem solving during the course conduction are observed and evaluated. Class tests, MCQ tests, assignments help students to prepare for university examinations. Mock oral/practical examinations helps the students to face university oral/practical examination with confidence. Project competition and presentations helps to know current trends and practices followed in the industry.

Teaching and Learning

The institute has a learner centric teaching learning environment. Faculty

Development Program is arranged for every subject before the start of semester. Various teaching pedagogic strategies are adopted to improve the academic ambience through this FDP. Modern teaching aids, Customized Moodle platform, video lecture capture setup, virtual lecture room are made available. The institute promotes various add-on and enrichment courses to enhance the knowledge and skills of students. These courses help to bridge the gap between the industry and academics. Outcome Based Education helps in continuous evaluation of the teaching-learning process.

Curriculum Development

- University provides opportunity to teachers for framing the syllabus in various capacities like participant faculty, subject expert, BoS and Academic Council member.
- University conducts workshops for finalizing course contents, reference and text books, list of practical's to be conducted and specification for procurement of related equipment.
- Institute has structured strategic plan for effective implementation of the curriculum.
- Faculty development programme is conducted at the starting of the semester. To bridge the curriculum gap extra lectures, workshops and FDPs are arranged.
- Interaction with industries and Research and Development (RD) institutions is encouraged to enhance practical knowledge.

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

E-governance area	Details
<p>Planning and Development</p>	<p>Official mail ids created for effective official communication .            Google Forms :- To prepare Feedback forms and get Online feedbacks from all stakeholders. Google sheet :- For data collection from Various Departments. Google Docs :- To prepare notices and activity reports. Google Drives :- To keep all department wise proofs.</p>
<p>Student Admission and Support</p>	<p>Students are admitted as per rules governed by Directorate of Technical Education(DTE) ,Government of Maharashtra and affiliated university. Student section software and ERP is used to keep student related database. Customized Moodle platform for Students learning. Lecture capture facility in</p>

	all departments. WhatsApp Group helps to provide the brief notices of any event to be happened on college.
Administration	Software used to maintain day to day activities of college Administrative work.
Examination	Examination conducted as per rules governed by Savitribai Phule Pune University, however ERP software is used to keep all exam related data.
Finance and Accounts	Finance and Accounts department is using Software for keeping all Accounts related data of Students and faculty.

### 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
2018	Shruti Shinde	nil	Builders Association Of India	12000
2018	Akshakumar Danole	nil	Indian Plumbing Association	12390
2018	Prof. Anub Nair	FDP on Android for Ubiquitous Computing	nil	500
2018	Prof. P. M. Tekade	FDP on IoT and Machine Learning	nil	500
2018	Prof. R.S.Sundage	nil	Society of Automotive Engineers (SAE) membership	25000
2018	Prof Ganesh Wayal	nil	Indian Concrete Institute membership	37760

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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)
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2019	Recent Advances in Remote Sensing and Satellite Image Processing	nil	08/02/2019	09/02/2019	25	2
2019	FDP on Big Data	nil	03/01/2019	04/01/2019	39	0
2019	Workshop Python Using Django	nil	25/06/2019	30/06/2019	23	3
2019	Workshop on scilab	nil	04/05/2019	05/05/2019	17	10
2019	STTP on Assessment and Evaluation under outcome based education	nil	10/06/2019	15/06/2019	18	18
2018	Blooms Taxonomy CO-PO mapping	nil	17/07/2018	18/08/2018	29	9
2018	Scientific Research paper writing: Tips and Tricks	nil	28/09/2018	28/09/2018	30	0
2018	nil	Two days Motivational Training Program for Non-Teaching Staff	10/12/2018	11/12/2018	85	85
2018	Research Paper Writing	nil	22/08/2018	22/08/2018	19	0
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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
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STTP on NBA Accreditation by National Institute of Technical Teachers Training Research	7	22/04/2019	26/04/2019	5
Workshop Python Using Django	23	24/06/2019	29/06/2019	6
A MHRD Government of India Initiative PMMMNMTT FDP in Cyber Security	4	11/02/2019	16/02/2019	6
Foundation Program in ICT for Education(FDP101x), IIT Bombay	4	13/09/2018	22/10/2018	10
Workshop on Moodle Learning Management System By IIT Bombay	1	15/03/2019	16/03/2019	2
Workshop on Big Data Analytics and Machine Learning	2	03/01/2019	04/01/2019	2
STTP on "Problem Based Learning" by NITTTTR Kolkata	20	27/05/2019	31/05/2019	5
Faculty Development Programme on "Research Methodology and Data Analysis" organized by MBA Department, RajarshiShahu College of Engineering, Pune.	11	22/04/2019	27/04/2019	5
One day Short Course on "Fiber-Reinforced Soils and Their Applications"organized by SVNIT, Surat	2	22/09/2018	22/09/2018	2

GIS, Surat Chapter				
International Workshop on "FOOSS4G for Digital Skill India" held at Hope Foundation's International Institute of Information Technology, Pune.	1	17/08/2018	18/08/2018	2
<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
226	226	130	130

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group Insurance, Employee Provident, Maternity leave, Study leave, Promoted for Higher studies , Fund (EPF) Scheme ,	Group Insurance, Employee Provident Fund (EPF) Scheme, Fees concessions to wards of employees	Group Insurance, Earn Learn Scheme, Scholarship to Meritorious students, Regular Health checkups .

**6.4 – Financial Management and Resource Mobilization**

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

<p>External Audit External auditor is appointed by the parent trust who executes the statutory audit. Last audit was carried out on 20th September 2019. No major irregularities were found in the audit and minor suggestions were complied. Internal Audit Internal auditors are appointed by the parent trust and internal audit is carried out half yearly. No major irregularities were found in the audit and minor suggestions were complied. • The audited balance sheet of the Institute for the year 2018-19 was considered and approved • The proposed budget of the Institute for the year 2018-19 was considered and approved.</p>
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6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Deccan water, Bhairvanath Sugar Factory, JSPM , Y.P. Enterprizes Pune, Amit Electronics Pune, Rutuja Energy Solutions Pvt.Ltd.	3040000	Sponsorship/Consultancy /Refresher Course/Training



Pune, Autonetics pvt ltd  
Nashik, Pacific  
Microsystems Pvt Ltd, TCS

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6.4.3 – Total corpus fund generated

64508200.27

### 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 ( Parent Trust ) Quality Circle Team	Yes	Principal and Academic Co-ordinator
Administrative	Yes	JSPM Administrative Team	Yes	Campus Director and Principal

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

1. Session on Intellectual property Rights (IPR) 2. Tutoring for students on Healthy Lifestyles 3. Discussion on harmonious relationship between parents and teachers for betterment of the students

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

1) Training on Safety 2) Training on Laboratory Maintenance 3) Training on Computer Literacy, Digitization.

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

1) Establishment of Centre of Excellence in Robotics Automation 2) Establishment of Centre for high speed machining. 3) Establishment of The Robotics Society of India (TRS) professional Chapter 4) Establishment of FPSI 5) Establishment of ISHRAE 6) Establishment of SAMPI 7) Establishment of ISME 8) Certificate training program on robotics in association with TATA Automation Ltd. 9) Certificate training on CNC VMC

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Institute organized National Level Technical event "Innovision	15/12/2018	10/01/2019	11/01/2019	780

	2019"				
2019	Board Of College and University Development (BCUD ) sponsored International Conference on Futuristic ,Resilient and Smart Urban Development	15/12/2018	22/02/2019	23/02/2019	100
2019	International Conference on Advanced Trends in Computer Science and Information Technology	15/12/2018	15/03/2019	16/03/2019	87
2018	Inauguration of ISHRAE student chapter	06/07/2018	25/08/2018	25/08/2018	83
2018	Inauguration of Fluid Power Society of India (FPSI) student Chapter	06/07/2018	31/08/2018	31/08/2018	78
2019	Industry connect through MoU, Sponsored projects and internship training with TAL Manufacturing Solutions limited, (A Tata Enterprise)	06/07/2018	24/01/2019	24/01/2019	26
2018	Unnat Bharat Abhiyaan	06/07/2018	06/08/2018	30/06/2019	50
2018	Training on CNC and	06/07/2018	01/08/2018	30/08/2018	55

	VMC Machines				
2018	GATE and Competitive Examination training	06/07/2018	16/07/2018	15/01/2019	72
2019	Industry connect through MoU, Sponsored projects and internship training with SSIG Manufacturing Advancements Pvt. Ltd.	15/12/2018	20/04/2019	20/04/2019	30
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## 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
Womens Mentoring Program On Health Issues	07/12/2018	08/12/2018	89	0
Session on various Women Empowerment Schemes	14/10/2018	14/10/2018	78	0
Woman Safety	12/02/2019	12/02/2019	223	11

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
Institute has installed 10 KWP solar photovoltaic power plant which fulfil nearly 20 power requirement of the institute. Institute has decided to increase capacity of solar plant to fulfil nearly 50 power requirement of the institute.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Special skill development for	Yes	1

differently abled students

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	0	16/07/2018	3	DRDO Examination Centre	DRDO Examination Centre	115
2019	1	1	27/01/2019	15	IIT JEE Exam Centre	IIT JEE Exam Centre	300
2018	1	1	08/08/2018	1	SBI Cleark Exam Centre	SBI Cleark Exam Centre	200
2018	1	0	25/09/2018	1	Industry visitAchieve Hydraulics Pneumatics, Chikali, Pune	Industry training	75
2018	1	1	10/09/2018	1	Rally to promote eco friendly festivals	Pollution	46
2018	1	1	07/10/2018	1	Swatch Bharat Abhiyan	Swatch Bharat Abhiyan	63
2018	1	1	21/08/2018	1	Flood Donation for Kerala	Donation	96
2018	1	1	25/08/2018	1	Tree Plantation Program	Green India	65
2018	1	1	19/10/2018	1	Road safety awareness program	Road Safety	85
2019	1	1	01/06/2019	1	Women Safety and Awareness	Women Safety	42

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

Title	Date of publication	Follow up(max 100 words)
Good Governance	02/07/2018	The Learning Forum reflected on the current global crisis and examples of failed and ineffective governance. This led to discussion of why good governance is important, and how fundamental principles are needed in higher education system.

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

Activity	Duration From	Duration To	Number of participants
Student Solar Ambassador Workshop	02/10/2018	02/10/2018	179
Seminar on Mind Power for Peak Performance	08/08/2018	08/08/2018	47
Workshop on Values for successful Life.	18/10/2018	19/10/2018	51
Workshop on heartfulness through meditation.	08/08/2018	13/08/2018	43
Workshop on Road Safety	03/09/2018	03/09/2018	48
Rally to promote eco friendly festivals	10/09/2018	10/09/2018	42
Swatch Bharat Abhiyan	07/10/2018	07/10/2018	35
Road safety awareness program	19/10/2018	19/10/2018	120
Session on Professional Ethics and Etiquettes	20/09/2018	20/09/2018	105
Tree Plantation	10/08/2018	10/08/2018	63

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

1. PUC Centre in association with RTO, PCMC. 2. Institution has installed 10 KWP solar photovoltaic plant which generates 48 to 50 units daily. 3. Institution also replaced 1000 numbers of 40W fluorescent tubes by 20 W LED tubes which reduces carbon emission by 8.64 MT/Annum. 4. Due to solar photovoltaic plant there is a 10800 kWh/annum energy saving. 5. Institute has

also installed Biogas Plant near college canteen which generate biogas from canteen waste. 6. E-Waste Management

## 7.2 – Best Practices

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

1. **Employability Skill Development Program** : RPG Zensar trains around 300 students during their prefinal year on Java, Advanced Java, Mongo DB, My SQL and Soft Skills for more than 250 Hrs free of cost. Faculty also gets exposure on latest technologies and trends through their faculty Development Programs on Artificial Intelligence, Machine Learning and Design Thinking. The outcome of this initiative is our students become employable.

2. **Use of ICT in teaching learning** : Institute facilitated the extensive use of ICT resources like MOODLE helps faculties to create their own dynamic courses that extend learning, anytime, anywhere. Moodle has wide range of standard and innovative features. Institute has installed video conferencing facility with movable camera and P.A. system. The expert lecture delivered at centralized location can be broadcasted simultaneously across all campuses of JSPM. Students of RSCOE can take benefit of VC facility. They can also interact with subject expert. ICT enabled virtual laboratories e-learning resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education are used for enhancing domain knowledge and skill. Interactive virtual classroom facility provided by institute helps in effective teaching process. Spoken tutorial like MOOCS, simulation software and Learning Management System (LMS) tools like Inpods and Moodle are made available by the institute. The Institute is a virtual lab nodal center of IIT Bombay. The captured lectures of senior faculty members are made available to junior faculty members. Faculty members use digital library facility to explore advanced topics of their respective subjects. Needs of students and faculty members with respect to advanced domain is fulfilled by organizing various events such as trainings, workshops etc. They are also deputed for attending various courses (on site/online) conferences, symposium etc. Through interactive learning, collaborative learning and independent learning, efforts are being taken to build the student centric system.

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

<https://jspmrscoe.edu.in>

## 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

**Academic Excellence** Institute produced 13 rank holders in Savitribai Phule Pune University examination during the Academic Year 2018-19 in various disciplines of Engineering which includes six rankers ( including University Topper ) amongst top ten rankers across 128 Engineering Institutes are passed from our institute. The Institute has been acknowledged for its teaching - learning practices at various platforms. The institute plans the teaching, learning and evaluation schedules by preparing academic calendar at Institute and department level in line with Savitribai Phule Pune University (SPPU) academic schedule.

The teaching, learning and evaluation activities in the institute are implemented according to the academic calendar, which is monitored by Academic coordinator as per the directives given by IQAC. The course coordinator prepares teaching and practical plan as per policies defined by institute, before commencement of the term. The institute has a learner centric teaching learning environment. Faculty Development Program is arranged for every subject

before the start of semester. Various teaching pedagogic strategies are adopted to improve the academic ambience through this FDP. Modern teaching aids, Customized Moodle platform, video lecture capture setup, virtual lecture room are made available. The institute promotes various add-on and enrichment courses to enhance the knowledge and skills of students. These courses help to bridge the gap between the industry and academics. Outcome Based Education helps in continuous evaluation of the teaching-learning process. Remedial classes for slow learners are scheduled and effectively implemented during the semester. For bridging the gaps identified in curriculum, expert lectures, video conferencing lectures are arranged from time to time. These lectures in turn help the students in acquiring wide exposure to the current trends in the respective field. As a result, Institute produced 13 rank holders in Savitribai Phule Pune University examination during the Academic Year 2018-19 including first rank holder from our institute.

Provide the weblink of the institution

[https://jspmrscoe.edu.in/institute\\_best\\_practices.php](https://jspmrscoe.edu.in/institute_best_practices.php)

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

RSCOE is accorded with Autonomous status from UGC for a period of ten years w.e.f. 2018-19 to 2027-28 and commences its academic curriculum under the autonomous status w.e.f. academic year 2019-2020 on the progressive basis, accordingly our plan of action is as follows:

- To make the curricula more relevant to advances in engineering and industry needs by adding skill-development courses.
- Academic freedom to teachers to determine and prescribe contemporary curriculum and syllabus.
- Respond better faster to the demands of learners market thereby improved placement.
- Offers Track-based electives.
- Project based learning and Experiential Learning
- State-of-Art Pedagogy in teaching/learning.
- Introduction of English, German, Japanese foreign languages
- Enhancing industry interaction
- Promote community and extension services
- Promote collaborative academics in foreign universities,
- Overall growth of students - introduction of new subjects and electives, industry internship, personality.
- Opportunity for professional development through augmented activities towards research and consultancy.
- Addressing of Sociotechnical Issues through Audit Courses
- Credit Based MOOC,NPTEL Courses.
- To enhance MoU with premier institutions of India and abroad for collaborative research, student-teacher exchange on regular basis.
- To develop Centres of Excellence by identifying the thrust areas of research.
- To establish incubation center in all the departments.
- Upgrading of the infrastructure and learning resources to keep pace with recent advances.
- To undertake sponsored and funded research projects in major thrust areas