



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		JSPM'S RAJARSHI SHAHU COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. Rakesh Kumar Jain
Designation		Director
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		02067127777
Mobile no.		9822746067
Registered Email		principal@jspmrscoe.edu.in
Alternate Email		jainrb20@gmail.com
Address		JSPM's Rajarshi Shahu College of Engineering S.No.80, Pune-Mumbai By-Pass Highway, Tathawade
City/Town		Pune
State/UT		Maharashtra

Pincode	411033																		
2. Institutional Status																			
Autonomous Status (Provide date of Conformant of Autonomous Status)	10-Jul-2018																		
Type of Institution	Co-education																		
Location	Urban																		
Financial Status	private																		
Name of the IQAC co-ordinator/Director	Dr. Prashant Kumbharkar																		
Phone no/Alternate Phone no.	02067127777																		
Mobile no.	9822933696																		
Registered Email	rscoe.naac@gmail.com																		
Alternate Email	deanpnd@jspmrscoe.edu.in																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://www.jspmrscoe.edu.in/naac_aqar.php																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.jspmrscoe.edu.in/pdf/calendar/Academic_Calendar_2019-20_SEM-I.pdf																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.26</td> <td>2017</td> <td>30-Oct-2017</td> <td>29-Oct-2022</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.26	2017	30-Oct-2017	29-Oct-2022
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.26	2017	30-Oct-2017	29-Oct-2022														
6. Date of Establishment of IQAC	20-Jun-2014																		
7. Internal Quality Assurance System																			
<div style="border: 1px solid black; padding: 5px; text-align: center;"> Quality initiatives by IQAC during the year for promoting quality culture </div>																			

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Session on Ideation in Patenting and Innovation	31-Aug-2019 1	110
YOUNG INSPIRATORS NETWORK(YIN) Talk	29-Jul-2019 1	300
Road Safety Awareness Camp	13-Jul-2019 1	26
Online session	30-Apr-2020 1	62
Jagtik Matrubhasha Diwas Celebration	21-Feb-2020 1	90
Online session on	13-Jun-2020 1	63
National Training Program on Project Guidance: Selection to Implementation	01-Jun-2020 14	422
International FDP on Emerging Trends in Industry 4.0	18-May-2020 15	664
Second International Conference on Advanced Trends in Computer Science and Information Technology	15-May-2020 02	76
International Conference on	18-Feb-2020 02	61

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

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Rajarshi Shahu College Of Engineering	PARAMARSH, Mentoring Scheme	UGC	2019 730	1253000
Mechanical Department	MODROB	AICTE	2019 730	1000000
Computer Department	MODROB	AICTE	2019 365	1000000
Computer Department	Refresher Course	AICTE-ISTE	2019 365	300000
E&TC Department	Refresher Course	AICTE	2019 365	300000

Civil Department	MODROB	AICTE	2018 730	1248000
Civil Department	FOR SHASHWAT CLUB- MHRD	AICTE	2019 365	50000
Mechanical Department	ASPIRE	SAVITRIBAI PHULE PUNE UNIVERSITY	2019 720	290000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View Link
10. Number of IQAC meetings held during the year :	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	View Uploaded File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
<ul style="list-style-type: none"> Ranked in Band A (Rank Between 6th - 25th) in Atal Ranking of Institutions on Innovation Achievements (ARIIA), an initiative of Ministry of Education (MoE), Govt. of India for the year 2020 under the category of Private or Self Financed Institutes. 	
Ranked in the Band : 201 to 250 in National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India for Academic year 201920.	
<ul style="list-style-type: none"> Established Institution Innovation Council (IIC) with four star rating, Ministry of Education (MoE), Govt. of India to promote innovation and startup in campus, academic year 201920. 	
<ul style="list-style-type: none"> Member of National Rural Entrepreneurship Mission constituted Rural Entrepreneurship Development Cell under Mahatma Gandhi National Council of Rural Education. 	
<ul style="list-style-type: none"> Ranked 103 at India Level by India Today, survey conducted by India Today - MDRA, 2020. Achieved platinum Category for the Academic Year 201920 consecutively three times in AICTECII Survey of Industry linked Technical Institutes 2020. Institute is approved as mentor institute for NAAC accreditation 	

under Paramarsh Scheme of UGC

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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	Achievements/Outcomes
To plan Community services under Shashwat club/NSS.	Health camps were organized for students & local community people. Environmental awareness were created to the local community people.
To organize online "International Faculty Development Program on Emerging Trends in Industry 4.0".	Two Weeks "International Faculty Development Program on Emerging Trends in Industry 4.0" was organized from 18th-29th May 2020 in online mode, in which experts from various countries have shared their expertise related with Industry 4.0.
To organize International Conference on "Renewable Energy Sources (ICRES)" .	International Conference on "Renewable Energy Sources (ICRES)" was organized on 18th and 19th February 2020 in online mode due to COVID-19 pandemic. There were 61 research papers published during the conference.
To prepare proposal for Participation in AICTE-CII survey of Industry linked Technical Institutes 2020.	Achieved platinum Category for the Academic Year 2019-20 consecutively three times in AICTE-CII Survey of Industry linked Technical Institutes 2020.
To establish International student chapter of American Society for Civil Engineers (ASCE)	International student chapter of prestigious 'American Society for Civil Engineers (ASCE)' inaugurated in the institute.
To establish Entrepreneurship Development Cell under Mahatma Gandhi National Council of Rural Education.	Achieved membership of National Rural Entrepreneurship Mission constituted Rural Entrepreneurship Development Cell under Mahatma Gandhi National Council of Rural Education.
To establish Institution Innovation Council (IIC)	Received four star rating for Institution Innovation Council (IIC), by the Ministry of Education (MoE), Govt. of India to promote innovation and startup in campus, academic year 2019-20.
Academic Administrative Audit (AAA)	Academic audit conducted by IQAC and accordingly analysis and action taken report completed. As a result, we have achieved excellent results in university examinations, Institute produced rankers in Savitribai Phule Pune University examination 2019-20 in

	various disciplines.
To submit proposal for Atal Ranking of Institutions on Innovation Achievements (ARIIA) ranking.	Ranked in Band A (Rank Between 6th - 25th) in Atal Ranking of Institutions on Innovation Achievements (ARIIA), an initiative of Ministry of Education (MoE), Govt. of India for the year 2020 under the category of Private or Self-Financed Institutes.
To Analyze report of NIRF ranking, Introspection and further course of action for proposal of NIRF Ranking 201920.	Ranked in the Band : 201 to 250 in National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India .
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Governing Body	26-Dec-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2020
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Date of Submission	31-Dec-2020
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>1. RSCOE is using CONTINEO 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. Important functions like answer script evaluation have a unique management framework for control of the complex process through analytical visualization. Outcome based education software delivers operational ease to use the educational theory of outcome based education. It supports for</p>
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Teaching plans and courses for students, Define outcomes and goals to be offered to students, Strategize duration, organize study material and timely chart out assessment schedules. The CONTINEO IT platform helps us to quickly get autonomous processes under control and provides insightful analytics so they can focus on academic innovation and research. It supports following modules • Admission Module • Administration module • Finance Module • Examination Module Contineo examination management software is a robust comprehensive solution to automate, streamline, and manage the examrelated activities of college. In a nutshell, the examination management module of contineo ERP administers and verifies the following operations: • The module configures the number of classes, subjects, language types of examinations. • User can define grace and exam rules. Minimal human errors can happen on this examination management system as the ERP provides strong validations. • This module integrates students data from the fees collection module. • Result publishing from UG and PG. • Results can be published in three formats: gradebased system, and combination of both. 2. RSCOE has customized Moodle system which is a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalized learning environments. Features of MOODLE for Learning Globally • Designed to Support both Teaching and Learning • Easy to Use • Open Source • Always uptodate • Allinone learning platform • Highly Flexible and Fully Customization • Robust, Secure and Private • Use Any Time, Anywhere, on Any Device • Extensive Resources Available

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	614119110	Civil Engineering	01/07/2019

BTech	614161210	Mechanical Engineering	01/07/2019
BTech	614124510	Computer Engineering	01/07/2019
BTech	614124610	Information Technology	01/07/2019
BTech	614137210	Electronics and Telecommunication	01/07/2019
BTech	614129310	Electrical Engineering	01/07/2019
Mtech	614121210	Structural Engineering	01/07/2019
Mtech	614160110	Design Engineering	01/07/2019
Mtech	614134110	VLSI AND EMBEDDED SYSTEMS	01/07/2019
Mtech	614124510	Computer Engineering	01/07/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Computer Engineering	01/07/2019	Business Communication and Value Science -I (HS1105)	01/07/2019
BTech	Civil,MECH, IT, E&Tc,Electrical Engineering	01/07/2019	Engineering Design and Development (ES 1104) OR OR	01/07/2019
Mtech	Structural Engineering	01/07/2019	Technical Paper writing (EC5108)	01/07/2019
Mtech	Design Engineering	01/07/2019	Disaster Management (CE5107)	01/07/2019
Mtech	VLSI AND EMBEDDED SYSTEMS	01/07/2019	Value Education In Engineering (ME5107)	01/07/2019
Mtech	Computer Engineering	01/07/2019	Constitution of India (CS5108)	01/07/2019
MBA	Business Administration	01/07/2019	Professional Communication (MBA1109), Skill Enrichment: Cyber Wellness	01/07/2019

MCA	Master Of Computer Applications	01/07/2019	(MBA1110), Online Professional Training Courses (MOOC/N PTEL/SWAYAM) MCA(2107)	01/07/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	Design Engineering(Mechanical)	01/07/2019
Mtech	VLSI and Embedded System(E&TC)	01/07/2019
Mtech	Computer Engineering(Computer)	01/07/2019
Mtech	Structural Engineering(Civil)	01/07/2019
BTech	Mechanical Engineering	01/07/2019
BTech	Electronics and Telecommunication Engineering	01/07/2019
BTech	Electrical Engineering	01/07/2019
BTech	Information Technology	01/07/2019
BTech	Computer Engineering	01/07/2019
BTech	Civil Engineering	01/07/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Mtech	Structural Engineering	01/07/2019
Mtech	Design Engineering	01/07/2019
Mtech	VLSI AND EMBEDDED SYSTEMS	01/07/2019
Mtech	Computer Engineering	01/07/2019
MCA	Computer Applications	01/07/2019
MBA	Business Administration	01/07/2019

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
Training on Atitude by FACE (online)	22/05/2020	108

CNC Certificate Course	12/08/2019	37
Certificate Course of energy literacy energy swaraj	09/05/2020	50
Certificate Course on Transferable Skills	10/07/2019	22
Problem Based Learning (Online)	06/01/2020	300
Bentley Certification Course for STAAD-PRO	01/09/2019	23
Certificate Course on IoT	05/07/2019	85
Certificate Course on Python Programming	24/07/2019	80
Certificate Course on Aptitude Building	20/01/2020	150
One week workshop on "ISO Certified Hands on training on retrofitting of Electric Vehicle"	06/01/2020	120
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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 Internship Programme	145
BE	Mechanical Engineering	192
BE	Computer Engineering Internship Programme	143
BE	Information Technology Internship Programme	76
BE	Electronics and Telecommunication Internship Programme	107
MCA	Computer Application Dissertation Project	52
MBA	Business Administration Summer Internship Project	53
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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
Mtech	Computer	24	21	10

	Engineering			
Mtech	VLSI And Embedded System	24	15	6
Mtech	Design Engineering	24	32	24
Mtech	Structural Engineering	24	34	24
BTech	Electrical Engineering	70	70	61
BTech	Electronics and Telecommunication	139	139	132
BTech	Information Technology	142	142	141
BTech	Computer Engineering	73	73	71
BTech	Mechanical Engineering	277	277	250
BTech	Civil Engineering	142	142	124
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3228	366	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	Number of smart classrooms	E-resources and techniques used
226	226	12	22	8	17

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

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, GFMs 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 • GFMs 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
3594	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
226	226	0	25	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
2019	Dr. Binod Kumar	Professor	Bestow Edutrex : Distinguished Professor Award 2020(International Award)
2019	Mrs. Gauri Dasalkar	Assistant Professor	Samaj Bhushan award by MITCON
2019	Dr Trupti P Hinge	Associate Professor	POSOCO Power System Awards (PPSA)-2019 (Rs. 1Lakh and certificate)
2019	Prof. Abhijeet Prdhan	Assistant Professor	Best teacher award (Sanskar Pratishthan)
2020	Prof. Pramila Pareek	Assistant Professor	Best teacher award (Sanskar Pratishthan)
2020	Mrs Bharati V Mahajan	Assistant Professor	Neer Nari Nadi Sanman from Rotary Club of Walhekarwadi Pune
2020	Dr. A R Deshmukh	Associate	Best project

		Professor	guide award by PCRFPune
2020	Prof. S.B. Javheri	Associate Professor	PhD Awarded
2020	Prof R.A.Deshmukh	Associate Professor	NPTEL online certification with silver ranking in Deep Learning Part-1
2020	Prof. J.P.Kshirsagar	Assistant Professor	NPTEL online certification with silver ranking in Joy of Computing using Python

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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
BTech	614119110	Second/First Year	12/05/2020	30/07/2020
BTech	614119110	First/First Year	15/12/2019	17/03/2020
ME	614121210	Second Year	22/11/2020	17/12/2020
ME	614121210	First Year	01/11/2019	05/12/2019
BE	614119110	Second/Fourth Year	16/10/2020	14/11/2020
BE	614119110	First/Fourth Year	01/11/2019	29/01/2020
BE	614119110	Second/Third Year	15/06/2020	29/07/2020
BE	614119110	First/Third Year	07/12/2019	21/01/2020
BE	614119110	Second/Second Year	15/06/2020	22/07/2020
BE	614119110	First/Second Year	01/11/2019	24/02/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
17	3594	0.47

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://www.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
614124110	MCA	MCA	38	38	100
614160110	ME	Design (Mechanical) Engineering	23	19	83
614524510	ME	Computer Engineering	15	15	100
614134110	ME	VLSI and Embedded System	9	9	100
614121210	ME	Structural (Civil) Engineering	22	22	100
614137210	BE	Electronics & Telecommunication Engineering	148	148	100
614119110	BE	Civil Engineering	149	149	100
614124610	BE	Information Technology	79	79	100
614124510	BE	Computer Engineering	137	137	100
614161210	BE	Mechanical Engineering	281	281	100

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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://www.jspmrscoe.edu.in/naac_sss.php

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes

Name of the teacher getting seed money

Dr Shaileja C. Patil

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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Sachin Shendokar	Fellowship	21/07/2019	North Carolina Agricultural and Technical State University, USA

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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	365	AICTE	3	3
Minor Projects	180	AICTE	3	3
Major Projects	730	AICTE-MODROB	10	10
Projects sponsored by the University	730	SAVITRIBAI PHULE PUNE UNIVERSITY	2.9	1.45
Minor Projects	365	AICTE	0.5	0.5
Major Projects	730	AICTE	12.48	10.22
Major Projects	1095	AICTE	10	9.85

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

6

3.3 – Innovation Ecosystem

3.3.1 – 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 Remote Sensing under Industry Academia Innovative Practices	Electronics and Telecommunication	25/09/2019

Session on Entrepreneurship Development	Electronics and Telecommunication	21/05/2020
Bridging the Industry Institute Gap by inculcating Best Practices	Information Technology	23/08/2019
Problem Based Learning	Electronics and Telecommunication	06/01/2020
Guidelines for writing the research paper	Computer Engineering	18/07/2019
Patent filing guidelines	Computer Engineering	20/01/2020
Innovative projects for Industrial Sector	Electronics and Telecommunication	28/01/2020
Seminar on IPR and Patents	Information Technology	02/02/2020
Workshop On Scope of Mechanical Design using various software in Mechanical Industry by Mr. Kishor Lekurwale, Expert from CADD Centre.	Mechanical Engineering	13/07/2019
A workshop on "ROBOEXIBIA" exhibition of Humanoid Robot, Robotic arms, 3D Printers, Drones	Mechanical Engineering	24/07/2019
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3.3.2 – 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
IOT based device which can automatically alert the relatives/concerned authorities in case of emergency.	akshay Mhaske	Pimpri Chinchwad Municipal Corporation Hackthon	28/02/2020	Software App
Underground Cable Fault Distance Conveyed Over GSM	Pooja Sabne	Pimpri Chinchwad Municipal Corporation Hackthon	29/02/2020	Software App
Automatic Digitization of letters	Rohan Shinde	Smart India Hackthon	08/07/2020	Software App
I2E(Innovation to enterprise)C	Sakshi Bhangale	Savitribai Phule Pune University	10/09/2019	Bio Fertilizer

ompetition				
Creating a web application for collecting taxes and giving tokens to the citizen using Blockchain technology	Parad Bankar	Pimpri Chinchwad Municipal Corporation Hackthon	28/02/2020	Software App
Parashar 1.0: Self Propelled Onion Harvester	Harshal Shinde	SAE India	08/06/2020	Agriculture
SANITIZING MACHINE	Tapan Patil	Savitribai Phule Pune University	25/06/2020	Healthcare Biomedical devices.
IOT based device which can automatically alert the relatives/concerned authorities in case of emergency.	Kunal handore	Pimpri Chinchwad Municipal Corporation Hackthon	28/02/2020	Software App
hydraulic model for bridge constrcution	Dr A.R.Deshmukh, Samarth Patil	PCRF	21/01/2020	Civil Works
Warm patient mattress for MRI/PET/CT scan room.	Pratik Kohinkar	Institute level	21/02/2020	Healthcare Biomedical devices.
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
JSPMs RSCOE, Pune	M.B.Jadhav	Non Sponsored	MBJ Consultants	Consulting	16/09/2019
JSPMs RSCOE, Pune	Harsh Sharma	Non Sponsored	Pepue Technologies	Software Solution	20/07/2019
JSPMs RSCOE, Pune	Ashish Dhandhar	Non Sponsored	INDELIBLE IT SOLUTIONS	Software Solution	22/08/2019
JSPMs RSCOE, Pune	Sidram Tadka	Non Sponsored	Appristine Technologies Pvt.Ltd.	Software Solution	27/07/2019
JSPMs RSCOE, Pune	Gaurav Ambep	Non Sponsored	Technotron Digital Pvt.Ltd	Software Solution	23/08/2019
JSPMs RSCOE	Aakash Sunar	Non Sponsored	Dhi Infotech	Software Solutions	26/06/2020

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Electronics and Telecommunication Engineering	1
Computer Engineering	1
Civil Engineering	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Electronics and Telecommunication Engineering	27	2.07
International	Computer Engineering	28	2.18
International	Civil Engineering	15	1.8
International	Mechanical Engineering	19	3.17
International	Information Technology	14	2.15
International	MCA	11	2.15
National	Information Technology	2	1.07

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

Department	Number of Publication
MCA	21
MBA	1
Electrical Engineering	9
Mechanical Engineering	19
Civil Engineering	15
Computer Engineering	34
Electronics and Telecommunication Engineering	29
Information Technology	24

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A Secure Deduplication of Encrypted Data in	Published	202021000000	24/01/2020

Cloud			
Toothpaste Dispensing Travelling Toothbrush	Published	202021024957	14/06/2020
Smart Watch for Fake Indian Currency Detection	Filed	202021028291	07/02/2020
IoT based MED-BOX with HOME delivery of Medicines	Published	202021003181	24/01/2020
Antithesis of hydrogen-hydroxyl using electro-polarization technique	Published	201821006378	01/03/2020
Safety warning system for two wheelers	Published	202021005642	10/02/2020
Identifying learning disability through digital handwriting analysis.	Filed	201921004896	02/07/2019
Smart Secure Self Check out at Super market	Filed	201921004894	02/07/2019
Smart Bus Commuter e-Ticketing	Filed	201921004911	02/07/2019
Advanced computer interaction system using wearable(s).	Filed	201921004830	02/07/2019
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3.4.5 – 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
Implementation of Secure Sharing of PHRs with IoMT Cloud	Prof.J.P .Kshirsagar	International Journal of Recent Technology and Engineering(IJRT E)	2019	Nil	JSPM's Rajarshi Shahu College of Engineering, Pune	Nil
Document Storage Access with Smart	Prof.K.V .Deshpande	International Journal of Scientific	2019	Nil	JSPM's Rajarshi Shahu College of	Nil

Card on Cloud		Technology Research			Engineering, Pune	
A Document Classification using NLP and Recurrent Neural Network	Prof. R. A.Deshmukh	International Journal of Recent Technology and Engineering(IJRT E)	2019	36	JSPM's Rajarshi Shahu College of Engineering, Pune	36
Marathi Poem Classification using Machine Learning	Prof. R. A.Deshmukh	International Journal of Recent Technology and Engineering(IJRT E)	2019	Nil	JSPM's Rajarshi Shahu College of Engineering, Pune	Nil
Video based Face Recognition with limited Resources	Prof.V.M .Barkade	International Journal of Recent Technology and Engineering(IJRT E)	2019	38	JSPM's Rajarshi Shahu College of Engineering, Pune	38
Classifying Handwritten digit Recognition Using CNN and PSO	Prof.G.D .Upadhye	International Journal of Recent Technology and Engineering(IJRT E)	2019	Nil	JSPM's Rajarshi Shahu College of Engineering, Pune	Nil
Smart Hospital for Heart Disease Prediction Using IOT	Prof.A.L .Golande	International Journal of Recent Technology and Engineering(IJRT E)	2019	Nil	JSPM's Rajarshi Shahu College of Engineering, Pune	27
Recognition of Emotional state based on Handwriting Analysis and Psychological Assessment	Prof.S.V .Kedar	International Journal of Engineering and Advanced Technology	2019	113	JSPM's Rajarshi Shahu College of Engineering, Pune	131
A Review on human Emotional	Prof.S.V .Kedar	International Journal of	2019	131	JSPM's Rajarshi Shahu	131

State Recognition		Control and Automation		College of Engineering, Pune
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3.4.6 – 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
Automatic Bone Contour Classification in RA from Hand Radiographs using CNN	Dr.R.B.Joshi	International Journal of Engineering and Advanced Technology (IJEAT)	2019	Nil	2	JSPMs Rajarshi Shahu college of Engineering, Pune
Analytical current model for dual material double gate junctionless transistor	S.C.Wagaj	International Journal of Electrical Engineering and Informatics,	2019	Nil	1	JSPMs Rajarshi Shahu college of Engineering, Pune
Linear Collaborative discriminant Regression and cepstra Features for Hindi Speech recognition	Dr.A.N. Paithane	Journal of Engg. Research SCI	2020	Nil	Nil	JSPMs Rajarshi Shahu college of Engineering, Pune
Higher order refined computational model using post processing for the transverse shear and transverse stress in composite plates	Dr. N. K. Nath,	International Journal of Mechanical Engineering and Technology	2020	Nil	Nil	JSPMs Rajarshi Shahu college of Engineering, Pune

Design Analysis Topology optimization of passenger car disc brake,	Dr. S.N.Khan	International Journal of Engg. Research and Technology	2020	Nil	Nil	JSPMS Rajarshi Shahu college of Engineering, Pune
Finite Element Analysis of variable thickness disc wheel rim for weight optimisation,	Dr. S.N.Khan	International Journal of Engg. Research and Technology	2020	Nil	Nil	JSPMS Rajarshi Shahu college of Engineering, Pune

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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	41	167	89	212
Presented papers	178	2	0	0
Resource persons	12	76	57	124

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Mechanical Department	Sugar Industrial Manufacturing Project	Bhairavnath Sugar Works, A/p. Sonari, Tal. Paranda Maharashtra	150000
Mechanical Department	Sugar Industrial Manufacturing Project	Bhairavnath Sugar Works, A/p. Sonari, Tal. Paranda Maharashtra	300000
Mechanical Department	Automatic monitoring controlling quality control of Sugar Industry	Bhairavnath Sugar Works, A/p. Sonari, Tal. Paranda Maharashtra	35000
Mechanical Department	Energy Monitoring Auditing of complete Plant	Bhairavnath Sugar Works, A/p. Sonari, Tal. Paranda Maharashtra	400000
Electrical	Energy Audit	Rajesh	150000

Department		Electricals, Pune	
IT Department	Online Examination Conduction	TCS, Pune	200000
MBA Department	Sugar Industrial Project	Bhairavnath Sugar Works, A/p. Sonari, Tal. Paranda Maharashtra	55000
Rajarshi Shahu College Of Engineering	PARAMARSHA Mentoring Scheme for NAAC Accreditation	University Grants Commission, New Delhi	1253000
IT Department	Software Development	Pacific Microsystem Pvt. Ltd., Pune	240000
Civil Department	Sugar Industrial Project	Bhairavnath Sugar Works, A/p. Sonari, Tal. Paranda Maharashtra	310000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Electrical Department	Energy Audit	Rajesh Electricals, Pune	15000	4
IT Department	Software Development	Pacific Microsystem Pvt. Ltd., Pune	240000	5
IT Department	Online Examination Conduction	TCS, Pune	200000	24
IT Department	Computer Application Development	TCS, Pune	250000	7
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3.6 – Extension Activities

3.6.1 – 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
Pavana River cleaning at Kejubai Bandhara Thergaon	Rotary Club, Akurdi Pune Shaashwat Club RSCO	6	25
Hands on workshop of making Solar Lamp for ZP shool	UBA, AICTE, New Delhi	5	50

Children			
Cloth bag Distribution in 5 villages	UBA, AICTE, New Delhi	5	50
Street play for Plastic Free Gram	UBA, AICTE, New Delhi	5	50
Eco Friendly Ganesh Awareness Camp	Samkar Pratishthan, Pune	1	10
Tree Plantation at Dehu	Rotory Club, Walhekarwadi, Pune	4	60
Tree Plantation	Manashakti Kendra, Chakan, Pune	2	54
Blood Donation Camp	Red Plus blood bank, Pune	2	88
Road Safety Awareness	RSCOE, PUNE	2	26
Session on Yoga	RSCOE, PUNE	1	45
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3.6.2 – 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
Social Awareness of Education Cleanliness	Best activity in ZP School	Z.P.School, Kasarsai, Pune	30
Yoga day	Best NSS activity	NSS SPPU, Pune	20
Tree Plantation at Dehu	Best Rotary Club activity	Rotory Club, Walhekarwadi, Pune	60
Eco Friendly Ganesh Awareness Camp	Best activity	Samkar Pratishthan, Pune	20
Vedit math, computer literacy and Zumba for ZP School Student	Best activity in ZP School	UBA, AICTE, New Delhi	50
Pavana River cleaning at Kejubai Bandhara Thergaon	Best Rotary Club activity	Rotary Club Shaashwat Club	25
Mega Tree Plantation at Gathagram Dehugaon	Best activity	Orange County Shashwat Club	80
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating	Name of the activity	Number of teachers participated in such	Number of students participated in such
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	agency		activites	activites
Unnat Bharat Abhiyan	AICTE, New Delhi	Cloth bag Distribution	5	50
River cleaning	Shaswat Club RSCOE, Pune	River cleaning	6	25
Road Safety and management	RSCOE, Pune	Road Safety and management	2	106
Tree Plantation	IETE, dehu, Pune	Tree Plantation	3	50
Social Awareness of Education Cleanliness	IETE, Z.P.School, Kasarsai, Pune	Social Awareness of Education Cleanliness	1	30
Unnat Bharat Abhiyan	AICTE, New Delhi	Wedit maths -School Student	5	50
Solar Lamp Making Workshop with IITB	Prof. Chetan Solanki, IITB	Solar Lamp Making	6	150
Energy Safety Week at College Campus and society	MSETCL, Chatushrungi Pune	Energy Safety Awareness Program	2	25
Unnat Bharat Abhiyan	RSCOE, Pune	Sankalp-Computer Literacy Camp	1	12
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Research Project, Central Water and Power Research Station, Pune	5	Central Water and Power Research Station, Pune	365
Project during Internship in Zensar, Pune	171	Zensar, Pune	90
Project during Internship in KPIT, Pune	30	KPIT	120
Internship under student exchange programme	3	KMITL University, Thailand	30
Internship at Builders Association of India, Pune	37	---	37
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3.7.2 – 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
MOU	Training	Unity Consultants, Pune	01/07/2019	30/07/2019	235
MOU	Training	Unity Consultants, Pune	02/07/2019	02/08/2019	74
Project	Internship	Microsoft, Pune	05/06/2019	06/03/2020	1
Patron Membership	Internship	Builders Association of India, Pune	16/12/2019	11/01/2020	15
Project	Internship	Zensar, Pune	01/07/2019	31/08/2019	68
Training	Internship	KPIT, Pune	01/07/2019	31/08/2019	30
Training	Internship	Talentio, Pune	01/06/2019	31/08/2019	54
Research Project	Research Project	Central Water and Power Research Station, Pune	01/07/2019	30/06/2020	5
Project	Project	SSP Technology, Pune	03/07/2019	22/07/2019	7
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
TAL Manufacturing Soutions limited, (A Tata Enterprise)	01/07/2019	Training to student on TAL BRABO Robot	85
Abhijeet Engineers	07/07/2019	Internship or in plant training Sponsorship project for BE students,	8
SSIG Manufacturing	03/06/2019	Training to student 1.	25

Advancements Pvt. Ltd.		Mechatronics and Automation 2. Robotics 3. CAMWorks 4. Internet of Things	
India First Robotics Innovations research LLP Pune	01/12/2019	Activities planned under MoU are 1. Robotic Automation courses 2. Workshops/Seminars 3. robotics Competitions 4. Setting up Innovations labs 5. Professional Project Internship	20
Conductix Wampfleyer	05/03/2020	Activities planned under MoU are 1. Robotic Automation courses 2. Workshops/Seminars 3. robotics Competitions 4. Setting up Innovations labs 5. Professional Project Internship	180
Maharashtra State Electricity Distribution Company Limited	13/04/2020	Training, Internship, Project Guidance	180
Builders Association of India, Pune	16/12/2019	Training, Internship, Project Guidance	22
Zensar, RPG foundation	01/06/2019	Training on employability skill development	103
KMITL University, Thailand	24/06/2019	Training, Internship, Project Guidance	35
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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
25	23.6

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
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Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Video Centre	Existing
Classrooms with Wi-Fi OR LAN	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
AUTOLIB	Fully	Web OPAC	2008
Contineo	Partially	Contineo	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	45327	17209301	2725	1153822	48052	18363123
Reference Books	799	1956201	Nill	Nill	799	1956201
e-Books	30496	458827	Nill	Nill	30496	458827
Journals	155	411197	128	120690	283	531887
e-Journals	54918	3157918	8000	2010125	62918	5168043
Digital Database	1	13570	Nill	Nill	1	13570
CD & Video	160	169648	Nill	Nill	160	169648
Library Automation	2	267226	Nill	Nill	2	267226
Weeding (hard & soft)	2991	560110	Nill	Nill	2991	560110
Others(s pecify)	Nill	47440	Nill	Nill	Nill	47440

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Total	1120	66	2	1	1	1	9	1	0
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4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1000 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	https://lms.jspmrscoe.edu.in/
RSCOE-LECTURE CAPTURE IN CLASSROOM	https://www.jspmrscoe.edu.in/virtual_campus.php
RSCOE-RECORDING STUDIO	https://www.jspmrscoe.edu.in/naac_isop.php#
RSCOE-INTERACTIVE SMART BOARD	https://www.jspmrscoe.edu.in/naac_isop.php#

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
50.89	49.22	156.98	151.81

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)

Institute infrastructure comply with the norms of AICTE and Savitribai 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 is maintained by concerned lab in charge and supervised by Head department. The calibration, repairing and maintenance of lab equipment will be done by the technicians through related vendors. There is systematic disposal procedure for all types of waste such as chemicals/e-waste etc. Library : college has Central Library along with departmental libraries. Library circulates the catalogs of available and new arrival books, journals, so that they can raise requirement of new books, journals. Institute makes a separate budget provision for procuring new books and journals every year. The procure 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 chalked out / resolved by the library committee. Library is equipped with online access for e-resources. Sports : Institute has sports facility for indoor and outdoor games .S director is appointed by the institute to carryout indoor/outdoor spo 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 Wi-Fi Enabled with 01 Gbps Internet connectivity. Additionally: The college establishment section monitors and supervise the available infrastructure and ensure its upkeep, repair and other maintenance. With the help of full time sweepers cleanliness is maintained. They are well equipped with modern 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 problems which are resolved within a set time frame. Students are sensitive 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, Plumbers, carpenters deputed by management who ensure the maintenance of classroom and related infrastructure. Regular cleaning of water tanks, proper garbage disposal, pest control, landscaping and maintenance of lawns is done by Institute .The equipments like generators, water pumps, water purifiers, 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://www.jspmrscoe.edu.in/naac_isop.php

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Economical Weaker Section	10	1130000
Financial Support from Other Sources			
a) National	State Government Scholarship for reserved category	2730	168505068
b) International	Nil	Nil	Nil

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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 implementation	Number of students enrolled	Agencies involved
Industry exposure, Current Trends and Future Scope	08/10/2019	62	Mr. Abhay Pagare UTOPIA India Pvt. Ltd
Aptitude Training	07/08/2019	605	Pawan Narnia Free lancer
Personal Counselling and Mentoring	08/08/2019	705	Saurabh Sharma and Anamika Sharma
session on Leadership Talk by Shri R Subrahmanyam, IAS (Secretary Ministry	13/06/2020	63	MHRD -Govt of India

of Social Justice Empowerment)			
FACE career enhancement Training (Online)	25/05/2020	108	Focus Academy of Career Enhancement (FACE), Chennai, Tamilnadu
INTRODUCTION TO CATIA ANSYS by Global Engineering Solutions	27/07/2019	50	Global Engineering Solutions, Pune
A workshop on "ROBOEXIBIA" exhibition of Humanoid Robot, Robotic arms, 3D Printers, Drones	24/07/2019	380	India First Robotics, Pune
Yoga and Pranayam	13/08/2019	605	Patanjali Yog Guru
Bridge Course	25/04/2020	100	ICT ACADEMY
Bridge Course	08/04/2020	50	IIT BOMBAY VIRTUAL LAB
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	ESD Training from zensar Technologies pune	Nill	168	Nill	40
2019	GATE GURU Club, RSCOE, Pune	49	24	12	Nill
2019	Training and placement sessions, T&P Department RSCOE, Pune	Nill	139	Nill	83
2020	Focus Academy of Career Enhancement (FACE)	Nill	108	108	100

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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	10

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, WIPRO, CAPEJ EMINI, ACCENTURE, ZENSAR, PINCLICK, BOSCH, INFOSYS, COGNIZANT, BITWISE, JARO EDUCATION, AMAZON, VARROC, VOLKSWAGON etc.	780	634	TCS, PINCLICK, BOSCH, BITWISE, J, AMAZON, TATA MOTORS, VARROC, VOLKSWAGON etc.	100	61
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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
2019	1	Computer Engineering	Computer Engineering	UNC Charlotte Graduate School, USA	MS (CYBER SECURITY)
2020	1	Information Technology	Information Technology	VIT Vellore	M.Tech Computer Engg.
2020	2	Computer Engineering	Computer Engineering	Punjab University	M.Tech Computer Engg.
2020	3	Mechanical Engineering	Mechanical Engineering	Symbiosis Institute of Technology	M. Tech in Mechatronics
2019	7	Civil Engineering	Civil Engineering	Walchand COE Sangli, AISSMS COE, Pune, RSCOE, Pune	M.Tech
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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	8
Any Other	5
GRE	3
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Robotics Competition	INTER INSTITUTE LEVEL	87
Poster Competition	INSTITUTE LEVEL	64
Ad-Mania	INSTITUTE LEVEL	56
Dance	INSTITUTE LEVEL	27
Antakshri	INSTITUTE LEVEL	29
Cricket	INSTITUTE LEVEL	98
Volly ball	INSTITUTE LEVEL	40
Girls Athletics	INSTITUTE LEVEL	32
Table Tennis	INSTITUTE LEVEL	14
Badminton	INSTITUTE LEVEL	23
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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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	7th Rank in Rifle Shooting in SPPU, Pune	National	1	Nil	20181932	Mahesh Magar
2019	Vedant-2019-20, B.J . Medical college of Engg, Pune Football	National	1	Nil	71713406H	Rohan Raut
2019	BJMC Nri tyavishkar Group Dance Competition	National	Nil	1	71822216E	Pratap Nayak
2019	SIMS Group Dance competition	National	Nil	1	71822216E	Pratap Nayak
2019	Chess Competition	National	1	Nil	71822345E	Pooja Sabne

2019	NICMAR-T echnikala Group Dance Comp etition	National	Nil	1	71822216E	Pratap Nayak
2019	Raj Karandak 3rd Prize	National	Nil	1	4114	Roshan Shinde
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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)

Activity of Student Council representation of students on academic administrative bodies/committees of the institution : The college has a Student Council. The selection of Student Council is as per provisions of the Maharashtra University Act, 1994. It consists of male/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 Selection: The students are selected by selection committee based on the interest, communication skill, active participation in various events Constitution: The student secretaries are selected based on interview committee consists of Campus Director, Principal, Joint Director and faculty co-ordinator. Activities: Cultural events, sports, technical events are organized and conducted by students. Respective authority supports the student representatives to conduct the activities. Funding: Institute bears all expenses related to travelling, accommodation, food, registration etc for the activities conducted. The following are the various academic and administrative bodies: • Student Council • IQAC, Department Advisory Board (DAB), Focus group • Student Chapters • 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, Cultural Extra-co-curricular activity • EDC Cell Each department HOD appoints student welfare coordinator, Sports coordinator and Cultural coordinator. Dedicated infrastructure is available for 'Raangbhumi Art Club' where students carry out their practice related to different events. Physical Director is appointed to guide the students in different sports related activity. Newsletters and wall magazine are periodically published by each 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. Alumni association of Rajarshi Shahu College of Engineering, Pune has 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 alumni are encouraged to stay connected with their alma mater and inspire and motivate current students. The active network and collaboration with alumni, helps the

institute in overall development by following ways: • Registered alumni association • Alumni meeting is organized ever year • Alumni is informally a part of the teaching learning process thro expert lecture, project co guides, organizing industrial visits and ment students. • Alumni are in communication with the institute through Socia networking sites like Facebook, WhatsApp, Google drive, V-chat. Alumni ca access day to day activities of institute through website and can give t 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 RSCOE has partnered with Univibe Network to provide its Alumni a comprehensive tool for networking amongst alumni, faculty other members of the institute. A platform that provides you access to the vast network of RSCOE Alumni working in reputed organisations worldwide. We aim to open the doors to new and exciting opportunities, steer you toward coveted job openings and even new clients. The unique features of the app not only allow you to reconnect but also provide live interactions with industry experts and business leaders through free webinars on relevant topics. The Alumni Platform contains features useful to our alumni such as • Connecting chatting directly to other alumni faculties/mentors. • Searching through profile information including location, current company or designation and much more. • Getting updates of RSCOE's events activities. • Becoming a mentor or mentoring other students or alumni. • Reliving old memories - uploading photos albums. Registration Date and Year: 06th March 2007 Registration Number: MH/365/2007 Number of Alumni : 8014 Number of Alumni Meets Held so Far: 15 Alumni Portal: www.rscoe.univibenetwork.in Alumni Presence is across the Globe: USA, Europe, Australia, UK, Dubai, Singapore, Japan etc.

5.4.2 – No. of registered Alumni:

8014

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

362500

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Activities : 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.

Alumni association of Rajarshi Shahu College of Engineering, Pune has 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 alumni are encouraged to stay connected with their alma mater and inspire and motivate current students. Goals: • To increase the alumni base • To increase alumni participation and involvement in college activities • To increase alumni participation in fundraising activities • To promote pride, tradition, and loyalty among both current students and former students Objectives: 1. RSCOE Alumni endeavors to bring the best of Quality Education with Entrepreneurship. 2. It shall collaborate and communicate using the best of technology to Impart Professional Training through participation. 3. It creates an environment to guide the students with their forward-looking ideas thus Promoting Entrepreneurship. Methodology : 1. Create Professional Directory - Increase your industry connects 2. Collaborative Training Program - Spare a few hours of your time to create a Yearly calendar. Offer Training program from your Desk to students and alumni members through Cloud-Enabled Video Conferencing 3. Alumni meetings - to create periodic purposeful Alumni meetings, Local chapters

formulations, Regular updates, Anniversary celebrations and organize events 4. Events Propagation and communication to Alumni -Alumni Search facility - find classmates or staff members Job Center - find or post jobs Build a Profile - friends list, photos, alumni networks, groups 5. Create a Market Place.

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 The institute is committed to provide complete transparency in all academic and administrative processes for effective and transparent governance. The institute has mechanism for delegating authority and providing operational autonomy to all the representatives to work towards decentralized governance system. 1. Principal Level The Governing Body delegates all the academic and operational decisions to the Academic Council (constituted as per the UGC guidelines for autonomous colleges) headed by the Principal in order to fulfill the vision and mission of the institute. 2. Faculty Level Senior Faculty members are given privileges to suggest and prescribe its own courses of study and syllabi, and restructure and redesign the courses to suit local needs, make it skill oriented and in consonance with the job requirements at Board of studies level. Also, faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, research, co-curricular, and extracurricular activities. They are given authority to conduct industrial visits and to have tie up with industry experts and appointed as coordinator and convener for organizing seminars/workshops/conferences/FDPs. For effective implementation and improvement of the institute various committees are formed for other units of the institute like sports, library, store etc. have operational autonomy under the guidance of the various committees/cells. 3. Student Level Students are empowered to play an active role as a coordinator of student council, co-curricular, extra- curricular, various club activities, social service group etc. • Participative management The institute promotes a culture of participative management by involving the students and faculties in various activities. All decisions of the institution are governed by management of facts, information and objectives. Both students and faculties allowed expressing themselves of any suggestions to improve the excellence in any aspect of the Institute. Strategic Level • The principal, Vice Principal, IQAC members, deans and head of various departments are involved in defining the policies and procedures, framing guidelines and rules regulations pertaining to admission, placement, discipline, grievance, counseling, training development, and library services etc., and effectively implementing the same to ensure smooth and systematic functioning of the institute. • For the various programs to be conducted by the institute all the staff members will meet, discuss, share their opinion and plan for the event and form various committees involving students and coordinate with others. Functional Level • At functional level the faculty members participate in sharing the knowledge by discussing on the latest trends in technology during faculty meeting. Staff members are involved in preparation of annual budget of the institute. • Faculty members also write joint research papers and share their knowledge? Operational level ? The principal of the institution is a Ex-Officio of the GB. The GB gives suggestions and monitors the procurement, introduction of new programs and welfare activities. Meetings are held periodically for discussing the issues and challenges, developmental aspect of the Institute.

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	Institute Alumni Cell have more than 8000 registered alumnus and works hugely in favor of the institution, it is very useful in networking and making connections across the globe. It refers to the institute across various platforms like LinkedIn, Facebook, Instagram, Whatsapp etc. Institution also publishes the information in media and institute brochure on website which contains application form who desires to take admission in the institute under 20 institute level quota. 80 students are admitted through centralized admission process as per rules governed by Directorate Technical Education(DTE) ,Government of Maharashtra and affiliated university.
Industry Interaction / Collaboration	In the world of globalization, institute is associated with various industries, well reputed institutes, universities and other organizations at national and international level for knowledge enrichment, mutual exchange, and resource utilization. Enhanced and active collaboration would help RSCOE to offer a holistic and experiential learning environment to the students and faculty members. Industry Interaction is a mode of communication that encourages the faculty members and students to interact with the industry in all possible ways with the spirit of developing mutual benefit like participation of industry experts in the academic process, industry exposure, trainings, mutual agreements, joint programmes, sponsorship/fellowships etc.
Human Resource Management	The strategic goal of RSOCE is to attract, develop and retain a high performing, inclusive and diverse workforce and fosters a healthy, safe, well-equipped and productive work environment for all stakeholders in order to maximize individual potential and expand organizational capacity. Faculties are being judged and evaluated by Students, HODs, and Director of RSCOE through Self performance Appraisal. Based on appraisal, incentives, awards will be given and improvement measures (if

required) will be suggested as per SOPs and policies of the institute. The institute also encourages its faculties to update their Academic Performance Indicator (API) regularly.

Library, ICT and Physical Infrastructure / Instrumentation

Institute infrastructure complies with norms of AICTE and affiliated University. Institute ensures the availability of latest equipments and up-to-date infrastructure. The institute has rich library caters to the needs of students, researchers and scientists. The library has huge collection of books, reference-books, periodicals and e-resources. Institute facilitated the extensive use of MOODLE. ICT tools which help to create dynamic course contents that extend learning, anytime, anywhere. Our customize Moodle has features like MCQs, Questionnaire, Web link for e-resources, NPTEL link, Case studies, Research paper link, Subject-Notes, videos editing uploading facility. Our institute has Youtube RSCOE Knowledge Centre where e-contents are prepared

Research and Development

RSCOE has upgraded research facility by procuring the suitable instruments and equipment. The Institute supports research by providing seed grants to selected projects. The institute support faculty members to work on research projects by providing resources and motivating for carrying out internal and external industry project. A research culture is enhanced by determining a research theme or thrust areas. Thrust areas will be selected based on national and State priorities/missions. Entrepreneurship Development cell in the institute works in association with IIRC to help in commercializing the ideas and projects. The cell has devised Start-up/ entrepreneurship supporting mechanism in the institute.

Examination and Evaluation

Institute Examination Cell headed by Controller of Examination, The Examination Scheme is based on semester pattern. In-semester Examination (ISE) which carries 25 marks, teacher's assessment of 15 marks and End-semester Examination (ESE) of 60 Marks for each program. Assessment for End Semester Examination (ESE) shall be done centrally. Re-examination schedule for absentees and failures within 10 days

after declaration of result. Practical examination/ presentations/orals assess by external examiners from other affiliated colleges and conduct as per the schedule approve by the Board Of Examination. Exam Cell is using Contineo software installed on centralized Server with Printing /Photocopy /CCD surveillance facility.

Teaching and Learning

Teaching and Learning Centre (TLC) is established for the design, development and monitor the implementation of curriculum as well as study, research, development, and implementation of innovative methodologies/technologies in the teaching-learning processes. The institute has a comprehensive learning management system that facilitates students and teachers a comprehensive platform with ease in teaching and learning. Institute facilitated the extensive use of MOODLE which helps faculties to create their own dynamic course contents that extend learning, anytime, anywhere. In addition, inclusion of value addition courses, training, or certification courses for developing soft skills of students who appear for campus interviews.

Curriculum Development

Curriculum is designed by taking inputs from experts from reputed industries and institute of eminence such IITs/NITs. The institute has incorporated the contents in the curriculum suggested by the experts from IIT Ropar, KPIT,TCS. RSCOE is striving essential skills relevant to Industry 4.0 by imparting best practices of Teaching Learning Process. RSCOE offers the options of pursuing minors, specializations, major honours to students joining B. Tech degree program under autonomy . This allows students to have additional knowledge in some focus areas, providing them a career edge or pursue an area of higher study in their field of interest.

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

E-governance area	Details
Planning and Development	Our institute shall automate all the administrative tasks by implementing an ERP system. Establishment of paperless e-Office for responsive and accountable administration is to be implemented. Presently institute is using CONTINEO software platform for implementation

and administration. It supports following modules • Admission Module • Administration module • Finance Module • Examination Module The institute also using customized Moodle system which is a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalized learning environments.

Administration

The institute is committed to provide complete transparency in all academic and administrative processes for effective and transparent governance. Establishment of paperless e-Office for responsive and accountable administration is to be implemented. Presently our institute is using CONTINEO ERP platform which supports Administration module. Important functions like answer script evaluation have a unique management framework for control of the complex process through analytical visualization. Student section is automated with software system recommended by affiliating university.

Finance and Accounts

The institute is using CONTINEO a pioneering software platform which supports for Finance Module and administration. This platform helps us to quickly get autonomous processes under control and provides insightful analytics. Account section presently maintaining all financial records of Students and faculty using TALY software. Students pay their fees using net banking facility and also through various digital payment methods.

Student Admission and Support

Students are admitted through online centralized admission process as per rules governed by Directorate Technical Education(DTE) ,Government of Maharashtra. Institution also publishes institute brochure on website which contains e-application form for students who desires to take admission under 20 institute level quota. To gain the enrolment from Pune region, digital marketing strategy has been adopted. Therefore, to boost admissions with digital marketing is a prominent way for the institutes. Today, marketing strategies are used to increase student enrolment revolve around online channels, email, LinkedIn, Face book, Instagram, Whatsapp for admission

aspirant students.

Examination

CONTINEO examination management software is a robust comprehensive solution to automate, streamline and manage the exam-related activities of college. Contineo supports secure, accurate, confidential and auditable examinations. In a nutshell, the examination module of ERP administers and verifies the following operations:

- The module configures the number of classes, subjects, language types of examinations.
- User can define grace and exam rules. Minimal human errors can happen on this examination management system as it provides strong validations.
- This module integrates students data from the fees collection module.
- Results can be published.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Prof. A. R. Deshmukh	Strategic issues in water resource sector	NWA, Pune	1500
2019	Prof Abhihit Pradhan	FDP For the Course on COMPUTER SCIENCE AND BUSINESS SYSTEMS	DESIGNED BY TATA CONSULTANCY SERVICES	3000
2019	Prof. J. P. Kshirsagar	STTP on data Analytics and Research Methodology	ISTE, New Delhi	30000

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	One Week FDP on Python with	Nil	01/07/2019	06/07/2019	30	Nil

	Django					
2019	One Week training program on "Microstation-Software training" Bentley Systems	Nil	10/07/2019	16/07/2019	25	Nil
2019	Nil	Workshop on Academic Autonomy Processes	10/12/2019	11/12/2019	Nil	87
2020	Human Values and Professional Ethics organised by the Department of Engineering Sciences, JSPMs RSCOE, Pune	Nil	06/06/2020	09/06/2020	43	14
2020	Seminar on UG Project Management: A PBL Approach	Nil	11/05/2020	11/05/2020	210	Nil
2020	FDP on AI and Data Science	Nil	10/06/2020	14/06/2020	19	Nil
2020	FDP on Emerging Trends in Industry 4.0	Nil	18/05/2020	29/05/2020	664	Nil
2020	Three Days Webinar on UNLOCK INDIA	Nil	06/06/2020	08/06/2020	130	Nil
2020	Webinar Series Recent Trends in IT 2020	Nil	22/06/2020	26/06/2020	100	Nil

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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
FDP on Concept Mapping in Teaching Learning by NITTTR Kolkata	5	27/04/2020	01/05/2020	6
Arduino Workshop RSCOE-IIT Bombay	7	27/04/2020	01/05/2020	5
Five Days Faculty Development Program on eSim" (free open source software for circuit design, simulation and PCB design)	10	05/05/2020	09/05/2020	5
FDP On Cyber Security Organized by ICT Acadecm	1	28/04/2020	03/05/2020	6
FDP on Problem Based Learning	24	01/06/2020	06/06/2020	5
FDP on outcome based education	3	11/05/2020	15/05/2020	5
Data Processing and Visualization using Python	4	26/05/2020	30/05/2020	5
STTP on Network Security	4	27/04/2020	02/05/2020	6
FDP on R Programming	11	23/04/2020	28/04/2020	6
Research Work flows, Research Metrics and Excellence in Academic Institutions	5	05/12/2019	05/12/2019	1

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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
Provident Fund Gratuity ,Insurance,Medical/Study leave,Research incentives,Financial support for Carrier Advancement Schemes,Patent filing, Maternity benefits, Priority given in the college admission of wards of the faculty,Transport facility	Provident Fund Gratuity,Insurance,Earn leave,Maternity benefits, Priority given in the college admission of wards of the staff,Transport facility	Insurance,Earn while u learn,Economical support to poor and needy students,Financial Support for research,Patent filing,Start up,Participation in technical competitions,industrial visit, trainings.

6.4 – Financial Management and Resource Mobilization

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

Finance committee is constituted by the institute as per UGC guidelines for autonomous colleges. This Committee prepared budget estimates relating to the grant received/ receivable from UGC, and income from fees etc collected for the activities to undertake the scheme of autonomy. Budget proposed for academic year 2019-20 was considered and approved. Internal Audit : Internal auditors are appointed by the parent trust and internal audit is carried out half yearly. No major irregularities were found and minor suggestions we complied. External Audit: External auditor is appointed by the parent trust who executes the statutory audit. Last audit was carried out on 20-Nov-2020. No major irregularities were found and minor suggestions we complied. The audited balance sheet of the Institute for the year 2019-20 was considered and approved.

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
Management	9468390	Students/Staff Welfare Faculty Development,Insurance,Students Training,Cultural Expenses,Research Development,Seminar/Workshop,Research Journals /E-Journals
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6.4.3 – Total corpus fund generated

38532000

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	Committee formed of external members under the chairmanship of Dr. A.M.Fulambarkar former Vice Chancellor, Symbiosis Skill University, Pune	Yes	IQAC team members Principal, Dean Academics Academic Coordinator
Administrative	Yes	JSPM (Parent Trust) 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. Ranked in Band A : Top 25 institutes in India in ARIIA ranking an initiative of Ministry of Education, Govt. of India. 2. Ranked in the Band : 201 to 250 in National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India for Academic year 2019-20. 3. Established Institution Innovation Council (IIC) with four star rating, Ministry of Education (MoE), Govt. of India to promote innovation and startup in campus, academic year 2019-20.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Institute organized National Level Technical event "Innovision	09/11/2019	28/01/2020	29/01/2020	1280

	2019"				
2020	International Conference on "Renewable Energy Sources (ICRES)"	09/11/2019	18/02/2020	19/02/2020	89
2020	International Conference on Computer Science and Information Technology	22/02/2020	15/05/2020	16/05/2020	74
2020	International FDP on Emerging Trends in Industry 4.0	22/02/2020	18/05/2020	29/05/2020	664
2019	Session on "Power of Subconscious mind" by Dr. Ram Gadgil, YIN India Gillet Program	13/07/2019	29/07/2019	29/07/2019	170
2020	FACE Training	22/02/2020	25/05/2020	17/06/2020	108
2020	One week workshop on "ISO Certified Hands on training on retrofitting of Electric Vehicle"	09/11/2019	06/01/2020	11/01/2020	120
2019	Alumni Week- Current technologies in IT industry	13/07/2019	19/07/2019	24/07/2019	120
2020	National Level Workshop on Recent Trends in Civil Engineering Construction	22/02/2020	30/05/2020	31/05/2020	76

2020	Design, Manufacturing and Testing of 25 KVA three phase Transformer Workshop	09/11/2019	03/02/2020	07/02/2020	60
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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
Woman Day Celebration Program, Empower Women	08/03/2020	08/03/2020	247	0
Session on Woman Empowerment	22/02/2020	22/02/2020	147	0
Session on Woman Safety	15/12/2019	15/12/2019	187	0
Training to Non-Teaching Woman Staff	10/12/2019	11/12/2019	36	15
ACM-Woman: session for Woman	12/05/2020	12/05/2020	87	0
Project 'Wings' for girls by Rotract Club of RSCOE	02/03/2020	02/03/2020	67	10
Project 'Roshni' Solar Lamp organized for village womens by Rotract Club of RSCOE	14/07/2019	14/07/2019	36	7
Leadership skills workshop	15/07/2019	15/07/2019	120	5
Self-Defense Workshop organized by Women Welfare Committee	05/09/2019	05/09/2019	155	0
Sexual	01/02/2020	01/02/2020	147	2

2019	1	1	18/09/2019	3	SANKALP	SANKALP Computer Literacy Camp at Village	10
2019	1	1	22/08/2019	1	Tree Plantation by Rotract Club of RSCOE	Tree plantation at Dehu Cantonment, Pune	120
2019	1	1	15/07/2019	15	Unnat Bharat Abhiyan	Village survey Unnat Bharat Abhiyan Internship at village Gahunje	20
2019	1	1	16/09/2019	1	Shashwat Club	Field Visit to Sewage Treatment Plant, Kasarwadi, Pune.	103
2019	1	1	14/08/2019	1	Donation for flood affected people	Donation Camp for flood affected people in Maharashtra	25
2019	1	1	25/09/2019	1	Swatch Bharat Abhiyan	Swatch Bharat Abhiyan	128
2019	1	1	12/09/2019	1	Eco friendly nature	promote eco friendly festivals	67

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Human Values and Professional Ethics	25/06/2020	Follow up meeting conducted on 25 June 2020. CORE VALUES defined for the institute. • Leadership and Cultural Heritage: RSCOE is committed to promote cultural heritage of

		<p>nation with a view to developing appropriate leadership qualities amongst youth. • Integrity: Teaching and research activity shall be performed with truthfulness and honesty. • Excellence: RSCOE is committed to perform its teaching-learning and research process with highest quality and value. • Professionalism: Faculty, staff and students are committed to maintain culture of professionalism through their behaviour, attitude, and communication. • Empathy: RSCOE is committed to improve the weaker section of society through research, innovation and education programmes of institute. • Innovation</p>
Code of Conduct	30/06/2020	<p>URL for Code of Conduct : https://www.jspmrscoe.edu.in/Code_of_Conduct.php This Code of Conduct Handbook indicates the standard procedures and processes of JSPMs Rajarshi Shahu College Of Engineering, Pune for all students pursuing varied courses, Teaching Non-Teaching staff enrolling with the Institute. All students, teaching and non-teaching staff must know that it is incumbent upon them to abide by this Code of Conduct and the rights, responsibilities including the restrictions flowing from it. That the Institutes endeavor by means of enforcing this Code of conduct is to pioneer and administer a student discipline process that is egalitarian, conscienous, effectual</p>

and expeditious and providing a system which promotes student growth through individual and collective responsibility. All Students, teaching and non-teaching staff are requested to be well conversant with this Code of conduct, which can be also reviewed on the official website of the Institute.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Faculties Participation in Human Values and Professional Ethics organised by the Department of Engineering Sciences, JSPMs RSCOE, Pune	06/06/2020	09/06/2020	1700
Shahu Maharaj Jayanti	16/07/2020	16/07/2020	158
Savitribai Phule Jayanti	01/03/2020	01/03/2020	204
Chatrapati Shivaji Maharaj Jayanti	19/02/2020	19/02/2020	259
SANKALP Computer Literacy Camp	18/09/2019	19/09/2019	32
IPR Awareness and Opportunities	29/02/2020	29/02/2020	100
Jagtik Matrubhasha Diwas Celebration	21/02/2020	21/02/2020	110
A Motivational Session by YIN	30/07/2019	30/07/2019	200
Donation Camp for flood affected people in Maharashtra	14/08/2019	14/08/2019	25
Gandharv 20, Cultural event for integrity	01/02/2020	02/02/2020	1200

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

1. Institution has installed 10 KWP solar photovoltaic plant which generates 48

to 50 units daily.

2. Institution also replaced 1000 numbers of 40W fluorescent tubes by 20 W LED tubes which reduces carbon emission by 8.64 MT/Annum.

3. Due to solar photovoltaic plant there is a 10800 kWh/annum energy saving.

4. Institute has also installed Biogas Plant near college canteen which generate biogas from canteen waste.

5. E-Waste Management

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice-I Various Club Activities in Rajarshi Shahu College Of Engineering : Introduction: Activity clubs play a major role in college life! Club provides opportunities to students from multi disciplinary engineering disciplines, to interact with each other in various domains to identify societal problems and provide engineering solutions. This initiative helps to develop teamwork, leadership and practical skills. Many activities are conducted by the club in order to help the students explore and learn some skills which might help them in future. RSCOE has a very active student club wherein students are strongly encouraged to pursue club membership to help them enrich their college experience. Students have the opportunity and choose to join these groups for: pursuit of individual interests, career networking opportunities, leadership skills development and social networking. The various student clubs at RSCOE that demonstrate the holistic development of the students and enhance the overall diversity are listed below • Rotaract Club • Shaashwat Club • RSCOE Satellite Club • Coding Club • Entrepreneurship Development Cell • Robotics and Automation • Young Inspirartion Network • Unnat Bharat Abhiyan • SANKALP • NSS ? Rotaract Club Rotaract Club of RSCOE also known as RCRSCOE. Objectives of the Practice: The main purpose is to provide humanitarian service, encourage high ethical standards in all vocations, and help build goodwill and peace in the community and the world. The context: There are four avenues in the Rotaract Club: 1. Professional Service Professional service is an avenue where a Rotaract Club has to emphasis on a professional growth of the entire team. Conducting Seminars, Orientations, Skill Development test are the key factors to encourage Rotaractors to stable up in the personal lives. The main aim of Professional Service is to benefit its members to outcast themselves and become leaders tomorrow. Events under professional service Avenue: ? Seminars on Career Development. ? Industrial Visit. ? Conducting Aptitude Test for the Members. ? Seminars for schools students. ? Team organizing District Assembly Conference. ? Participating or Organizing RYLA. ? Organizing Vocational Courses 2. Community Service The second most important chapter of Rotaract Movement is Community Service. As a youth wing of Rotary Club it is a responsibility of a Rotaract team to do good for the society they live in. Rotaractors need to work on the social aspect of their locality and need to work for the betterment of the community standards every month. We need to figure out the necessities that our society needs and create projects accordingly. Events under community service avenue: ? Cleanliness Drive in our City. ? Tree Plantation. ? Orphanage and Shelter Home Visits. ? Finding free schools and admitting street hawker's children. ? Traffic regulation. ? Providing Monetary support to patients belonging to poor family. ? Conducting Free Health Camps in the rural areas. 3. International Service Every Rotaract clubs tries to broaden their Horizon on the perspective they have on International Matters, vitally exploring inter-cultural diversities. It is all about making friendship and broadcasting your club activities with one another. Events under international Service avenue: ? TWIN Club Agreement. ? Celebrating International Day with Similar Banners. ? Joint Club Bulletin. ? Club Visits via Rotary Program. 4. Club Service Celebration

Fellowship all starts here!! Club service is the most primary avenues of Rotaract which keeps the team energetic motivated. Events like Movie Fellowship, Team Outings, Group Dinner etc falls under the Club Service Avenue which helps the team to get a stronger bonding and lead the club. Events under club service avenue: ? Charter Day Celebration Evidence of Success: We the Rotaract Club of RSCOE are happy to share that our Rotaract Club of RSCOE has received the following Awards in the RIY 2019-20: 1. 2019-20 Rotary Citation with Platinum Distinction. 2. Outstanding Club Citations Award. 3. Social Media Award (International Award by Rotaract Club of Turkey). 4. Outstanding Leader (Institute) - RTR. Sharad Korekar. 5. Maximum Membership Development Award. 6. DRR Recognition Academic Excellence Award, RIY 2019-20. 7. 100 Reporting Club Award, RIY 2019-20. Active members are the key to a successful club. A Rotaract club provides opportunities for networking, community and service. Best Practice-II

1. Experiential learning: ? Introduction: Experiential learning is an engaged learning process whereby students "learn by doing" and by reflecting on the experience. It engages students in learning that is deep and long-lasting. ? Objectives of the Practice: 1. To understand the concepts With experiential learning, students are given the opportunity to apply data and ideas in a real-world situation. 2. To be more creative With real-world content, students learn that there are multiple solutions to challenges, and they are encouraged to seek their unique solution to hands-on tasks.

Experiential learning is one of the best ways to teach creative problem-solving. 3. To acquire valuable experiences through students' mistakes As students engage in hands-on tasks, they will find some approaches work better than others. They discard the methods that don't work, but the act of trying something and then abandoning it - ordinarily considered a "mistake" - becomes a valuable part of the learning process. 4. To reflect through opportunities Students are encouraged to analyze how their actions affected the issue, and how their outcome may have varied from other students'. This analysis helps them better understand how the concepts learned can be applied to other, varied circumstances. 5. To improve attitudes of the students toward learning

Experiential learning is designed to engage students emotions as well as enhancing their knowledge and skills. Playing an active role in the learning process can lead to students experiencing greater gratification in learning. ?

The context: Project Based Learning: The empirical evidence shows that experiential learning education addresses specific methods and Project Based Learning is one of them. In project-based learning, students dive into real-world problems over an extended period of time, which requires them to apply their knowledge. "The core idea of Project Based Learning is that real-world problems capture students' interest and provoke critical thinking as the students acquire and apply new knowledge in a problem-solving context. PBL is a process of teaching and learning that focuses on problem based, project centered activities. PBL is based on re-engineering processes that bring people

from multiple disciplines together that support collaborative, cross-disciplinary, geographically distributed teamwork and learning. Students are required to collaborate with each other, use critical thinking skills, and think creatively. ? The practice: Engineering Design Development Laboratory of RSCOE: Today, when the industry is gearing itself for Industry 4.0 its important for the educational institutions to promote inter disciplinary or multi disciplinary aspects among the students. The EDD lab at RSCoE ensures this aspect through its PBL structure which is a lab equipped with tools like laser cutting machines, 3D printers, flexo robotic hands, micro controllers and various softwares. Right in the first year of engineering, a team is formed which is a combination of 3 to 4 students from different engineering disciplines. They are given problem statements which are mostly the problems from our surroundings which could be resolved by offering some kind of innovation. ? Evidence of success: 1. Promoting interdisciplinary skills with modern technology usage among students. 2. Ensures students learn the

importance of problem solving skills. 3. Team building skills. 4. May develop entrepreneurial approach among the students. 5. May lead to patents and thus enable a research environment.

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

https://www.jspmrscoe.edu.in/institute_best_practices.php

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

Student Progression and Industry Relations (SPIR) Cell Activities : SP and IR Cell works for creating employment and progression opportunities for the students. To enhance the employability of our students SP and IR Cell provides various training programs like soft skills, aptitude skills and basic technical skills through internal and external experts. Apart from providing job opportunities, SP and IR Cell works closely alongside the Entrepreneur Development Cell, Foreign University Relations Cell and alumni Association cell, thereby ensuring the smooth student progression, SP and IR Cell strives to provide platform for students to impart relevant guidance on Higher education in Abroad. Besides this SP and IR Cell provides a sound echo system for building entrepreneurs. RSCOE has MoU with TCS, Bentley Systems, Zensar technologies, TAL and 20 other corporates. SP and IR Cell also harness their support for delivering Japanese, French Language Training, Industry Centric Curriculum, Training on Software Development , Software testing, Automation and Robotics. We conduct following training programs through SP and IR Cell: 1. Zensar ESD (Employability Skill Development), FACE 2. Workshop on Company Specific Aptitude. 3. Communication skills Development sessions. 4. Training is provided on Aptitude skills, soft skills, technical skills 5. Group discussion sessions 6. Personal interview sessions 7. Technical interviews session. 8. Counseling and Mentoring. 9. Assessment Test (Cocubes AMCAT). 10. Japanese, French, English Language Training Program 11. Counseling on Competitive exams, GATE,MPSC,UPSC. It is a matter of great pleasure for the institute to take this opportunity to invite potential companies to experience and evaluate the dexterities, competency, skills and talent of our students and absorb them into their esteemed organizations. As a result,90 students are placed in reputed companies through campus placement and also opt for higher education in reputed institutions in India abroad.

Provide the weblink of the institution

https://www.jspmrscoe.edu.in/institute_distinctiveness.php

8.Future Plans of Actions for Next Academic Year

- The institute has planned to apply for six years NBA accreditation of UG and PG engineering courses along with four Diploma programs.
- Implementation of Strategic Plan 'RSCOE Vision-2025' based on five year strategic plan and will implement the same through Key Result Areas (KRAs).
- Focus on active learning and problem/project based delivery and assessment. Institute has decided to strengthen the OBE by focusing on active learning and problem/project based delivery and assessment.
- The institute has planned to collaborate with IIT Ropar, industries like KPIT, TCS, Persistent for curriculum development of UG and PG courses.
- The institute has planned IEEE International Conference on Computing, Communication and Green Engineering (CCGE21).
- To enhance NIRF ranking amongst top 200 engineering institutions during academic year 2020-21.
- To achieve ARIIA ranking amongst top 25 institutions in India.
- National/International Internships for students in the next academic year (2020-21) and will motivate, facilitate for international internships. Also,MOUs

shall be made with identified institutes/universities to facilitate the student internships. • The institute has planned various AICTE/ISTE approved One/Two week workshops/STTP belonging to different disciplines. • To establish Innovation, Incubation and Startup Cell (IISC) at RSCOE with following objectives Objective :

1. Promoting entrepreneurship and innovations among the students and faculties . Providing specialized knowledge in specific areas.
2. Supporting budding entrepreneurs with aspects of Mentoring , Funding opportunities, Registrations , Patent filing and much more. • Creation of "Innovation Fund" for supporting Innovative Projects and Startup.