YEARLY STATUS REPORT - 2021-2022

Part A	
Data of the Institution	
1.Name of the Institution	JSPM's Rajarshi shahu College of Engineering Tathawade
• Name of the Head of the institution	Dr R.K.Jain
• Designation	Director
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	02067127777
• Alternate phone No.	9822933696
• Mobile No. (Principal)	09822746067
• Registered e-mail ID (Principal)	principal@jspmrscoe.edu.in
• Address	S.No 80 Tathawade

• City/Town		**Pune**
• State/UT		**Maharashtra**
• Pin Code		**411033**
2.Institutional status		
• Autonomous Status (Provide the date of conferment of Autonomy)		**10/07/2018**
• Type of Institution		**Co-education**
• Location		**Urban**
• Financial Status		**Self-financing**
• Name of the IQAC Co-ordinator/Director		**Dr. Prashant Kumbharkar**
• Phone No.		**02067127777**
• Mobile No:		**09822933696**
• IQAC e-mail ID		**rscoe.naac@gmail.com**
3.Website address (Web link of the AQAR (Previous Academic Year)		**https://www.jspmrscoe.edu.in/details/aqar**
4.Was the Academic Calendar prepared for that year?		**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:		**https://www.jspmrscoe.edu.in/details/Academic-calendar-2021-22**

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.26	2017	30/10/2017	31/12/2024

6. Date of Establishment of IQAC	20/06/2014

7. Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
JSPMs Rajarshi Shahu College of Engineering	Science Technology and Innovation (STI) Hubs for Development of Scheduled Caste (SC) and Scheduled Tribe (ST) Communities	DST	04/02/2022	27313429
Mechanical Engineering Department	MODROB (03 years)	AICTE, NEW DELHI	20/03/2019	1000000

8. Provide details regarding the composition of the IQAC:

• Upload the latest notification regarding the composition of the IQAC by the HEI	**View File**

9. No. of IQAC meetings held during the year	03

• Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?	Yes

10. Did IQAC receive funding from any funding agency to support its activities during the year?	No

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

1. The institute established "RSCOE Innovation and Incubation Foundation" section 8 company on 20th April 2022. 2. IEEE International Virtual Conference On "Computing, Communication & Green Engineering -2021" (CGGE21) was organized on 23rd - 25th Sept. 2021. 3. The institute have jointly organized the National Inter-college Cryptic Crossword Expedition -2022 for the West Zone on 27th June 2022 in association with AICTE and UGC. 4. External Academic Audit completed for the Academic Year 2021-22. 5. Energy,Environment and Green Audit of the institute completed for the Academic Year 2021-22. 6. * Ranked in Band "Excellent" in Atal Ranking of Institutions on Innovation Achievements (ARIIA), an initiative of Ministry of Education (MoE), Govt. of India for the year 2021 under the category of Private or Self-Financed Institutes. * Ranked in the Band : 251 to 300 in National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India for Academic year 2021-22.

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
To set up RSCOE Innovation and Incubation Foundation	The institute has established RSCOE Innovation and Incubation Foundation section 8 company on 20 April 2022
To complete the External Academic Audit	External Academic Audit conducted by the committee under the chairmanship of Dr.D.D.Shah (Former Vice Chancellor, Raisoni University Amravati) on 17th June 2022 to review the academic processes teaching-learning, examination and evaluation aligned with learning objectives for the Academic year 2021-22
To host National Inter-College Cryptic Crossword Expedition (NICE-22) in association with AICTE	National Inter-College Cryptic Crossword Expedition (NICE-22) was organized by the institution in association with AICTE and UGC on 27th June 2022.
To sign MoUs for academic collaborations,internships,career guidance and counselling etc.	RSCOE signed MOUs with Bharat Software (for project internship and trainings), Project visioncy (for soft skill development), Secure point Technologies Pvt. Ltd. and Healthy Minds Consultancy (for career guidance and counselling).
To complete NBA (National Board of Accreditation) of all eligible UG programs	All five UG programs (Computer,Information Technology,Mechanical,Civil,Electronics & Telecommunications) are accredited consecutively fourth time by NBA for three years.

To submit proposal for Atal Ranking of Institutions on Innovation Achievements (ARIIA) ranking 2022	Ranked in Band 'Excellent' in Atal Ranking of Institutions on Innovation Achievements (ARIIA), an initiative of Ministry of Education (MoE), Govt. of India for the year 2021-22 under the category of Private or Self-Financed Institutes.
To place the institute in NIRF ranking	The institute placed at the position 250-300 in NIRF ranking in 2022 ranking.
To prepare virtual lab assignment for IIT Bombay	The faculties of the institutes has developed Virtual Power System Analysis lab for IIT Bombay under virtual lab development.
To offer Honors/minor courses for B. Tech Programs	The institute offered various Honors/minor courses for all B. Tech Programs commenced from academic year 2022-23
To plan IEEE International Virtual Conference On "Computing, Communication & Green Engineering -2021" (CGGE21)	The institute has organized IEEE International Virtual Conference On "Computing, Communication & Green Engineering -2021" (CGGE21) on 23rd - 25th Sept. 2021.

13.Was the AQAR placed before the statutory body?	Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Academic Council	11/03/2023

14.Was the institutional data submitted to AISHE ?	Yes

- Year

Year	Date of Submission
2021-22	15/02/2023

15.Multidisciplinary / interdisciplinary

NEP 2020 emphasize on recognizing, identifying, and fostering the unique capabilities of each student, by sensitizing teachers as well as parents to promote each student's holistic development in both academic and non-academic spheres. The institution offers multidisciplinary and interdisciplinary courses to the students, allowing them to choose their subjects, courses, and programmes from different areas as per NEP 2020. In this regard, institute has organized FDPs, workshops and expert sessions to create awareness about NEP 2020. The institute offers open electives where students have the liberty of choosing open electives from other engineering disciplines to discover their interests during their learning journey, and this would enable them to forge their own path.

The institute also offers Humanities, Science and Mathematics are an integral part of the engineering courses with major/minor and honour courses in various engineering disciplines. For every B.Tech. Course subjects like Physics, Chemistry, Mathematics, English, Biology, Environmental Science, psychology, business communication and values are included in the curriculum.

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. The Institute organizes interdisciplinary international conference every year to promote a blending of different disciplines leading to the exchange of research ideas and knowledge on topics of overlapping domains.

NEP 2020 emphasis on setting up a holistic environment in the campus through various clubs and its activities. Through various clubs, extracurricular activities will be supported by the institution, including support for the major technical and cultural festivals conducted in the campus.

16. Academic bank of credits (ABC):

As per the directions of Govt. of India NAD-ABC the institution has taken the initiative to fulfil the requirement of Academic Bank of Credits (ABC) as proposed in NEP-2020 by appointing NAD Nodel officer.All the students have created their ABC ids and NSDL login. Institution has registered under the ABC to permit its learners to avail the benefit of multiple entries and exit during the chosen programme through the NAD web-portal. The institution has collaboration with various international universities where students can also choose various courses from international universities. The facility of transferring of credit has been provided through NAD web-portal.Faculties are encouraged for designing the curricular and pedagogy, textbook, reading material selections, assignments and assessments through various national and international collaborations with universities. The faculty members are deputed for training in the various IITs, NITs and reputed Institute to design the curriculum as per NEP-2020 and decide the pedagogy. Institute have aseparate cell of International Relations (IR) and through which institute have

MoU's with various International and national Universities. This collaboration helps to implement Academic Bank of Credits (ABC) in the institution in view of NEP2020.

17.Skill development:

Skill development encompasses several vital attributes, including identifying one's skill gaps and enabling one to develop those skills to achieve their goal.

Along with technical skills students must possess interpersonal skills too in order to bag suitable placements, considering this dire requirement institute provides the necessary training from the first year itself.

1. The students are provided with soft skill sessions from the first year of engineering which helps them to strengthen their communication skills
2.
    1. To strengthen their interpersonal skills, Institute has integrated business Communication and Values Science as a part of the curriculum , Japanese language training in association with Accenture.
    2. For second-year students we provide dedicated In-House Aptitude training.
    3. From Third-year we train students in vocational skills such as Career Readiness Training, Auto CAD.
    4. Pre-Placement activities such as mock interviews, Group Discussions, and Extempore are conducted
3. The curriculum included ethics and values in order to improvise student conduct, helping them to make the right choices, lead their professional lives, and become ethical individuals. Through Subjects like value science, students are enlightened with the ethics required to sustain a workplace environment and thrive in society. Personal counselling through a dedicated on-campus counsellor makes students' SWOT analysis easy.

- Institutes efforts

1. Credit score pattern- Every student should appear for language Proficiency-English, German, Japanese & French. Credit score will be min 1 and max 4 points.
2. Several sessions by industry veterans are conducted such as a motivating session by An Army veteran, skill development training for future readiness by the American India Foundation, and Center of excellence MoU with Tech Mahindra. Technical training through Fluid Power Society of India& Automotive competitions like Supra for Mechanical, Transformer, Lamp & EV projects, PLC for Electrical, 6-monthfull-time internship in collaboration with different industries to gain practical knowledge and industry norms in advance.

3. The program involves internships with the goal of acquiring various discipline-related skills and technologies and developing their technical and professional knowledge.
4. Few Unified platforms for skill mapping are Swayam, Coursera, NPTEL. These platforms help students to learn on their own with certifications.
5. Online platforms like Unacademy, Cocubes, bvetrainophilic, E-RSCOE youtube channel support students to learn and gain knowledge.
6. Few CSR training through Barclays GTT & ZENSAR for Python, Java, and Software testing. Such training help students with lower financial category. The new curriculum is focused on a student-centred instruction model.

18. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Educating about Indian culture mediates the sense of self-esteem in an individual because it involves certain aspects of their lives, like beliefs, values, etc., which become the forefront of how one measures their worth. It builds self-esteem, creativity and problem solving skills.

Our institute have signed MoU with IIT Ropar and industries like TCS, KPIT, Veritas for curriculum development which includes curriculum based on need of industry, courses for skill development, interdisciplinary knowledge, inclusion of different value added courses, societal problems, internship, industrial projects adapting the modern techniques in teaching-learning process etc.

A   discussion among the faculty members has been initiated on the key principles of NEP such as diversity for all curriculum and pedagogy with technological innovations in teaching and learning, encouraging logical decision making and innovation, critical thinking and creativity. In order to provide the holistic academic growth among students, Inter-disciplinary curriculum has been proposed which gives freedom to the student to choose their preferred options from the range of program offered by the institution. All the courses offered by institute are Choice Based Credit System (CBCS). Few of (them also include value based and environment-based subjects like professional Ethics, Environmental studies, principles of Management, project management etc. All programmes are designed in such a way that students get maximum flexibility to choose elective courses. The institute also offered credit courses through MOOCs, Coursera, SWAYAM etc.

19. Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

1. Institutional initiatives to transform its curriculum towards outcome based education (OBE)?

Outcomes based education is a learner centered approach to education that focuses on what a student should be able to do in the real world upon completion of their course or program.

At RSCOE, the curriculum is carefully constructed by keeping in mind OBE philosophy by first determining the outcomes, and then designed backwards by: carefully determining authentic assessments, choosing/building relevant learning activities and experiences, selecting appropriate content. The process ensures that the learners are able to demonstrate achievement of outcomes, and that learning outcomes, learning activities/methods and assessment are aligned.

1. Efforts made by the institution to capture the outcome based education in teaching and learning practices.

The OBE framework adopted by institution for revolves around three important elements:

a) description of the students learning outcomes (COs, POs & PSOs) in the form of a verb (learning activity), its object (the content) and specification of the context and a standard the students are to attain; b) creating a learning environment using teaching/learning environment activities that address that verb and therefore are likely to bring about the intended outcome; and c) using assessment tools that also contain that verb, thus enabling the teacher to judge the attainment results.

A Course Outcome (CO) is a measurable, observable, and specific statement that clearly indicates what a student should know and be able to do as a result of learning. The compliance of module outcomes with each PO and PSO is verified based on action verb, content and the context of application/performance. The curriculum gap for PO / PSO attainment at course level (POs and PSOs relating to knowledge and skill) and at program level (POs relating to attitude or behavioural) is identified. All activities are mapped to POs and PSOs related to curriculum gap and content beyond syllabi. Feedback on bridging the curriculum gap and delivery of content beyond syllabi is collected from students.

The COs of each course shall be mapped to POs and PSOs along with its correlation strength mentioned in three level (slight-1, moderate-2, substantial-3)

Direct Internal assessment of COs calculate through various tools like mid-sem exams, tests, assignments, MCQ, project, seminar etc on every CO. The direct external CO assessment is based on end semester exams. The Indirect assessment at course level is carried out by conducting course end survey, lab end survey. The indirect attainment of POs and PSOs is calculated by exit survey, employer's survey, co curricular activities, extracurricular activities etc. Based on percentage of CO attainment, the direct assessment of POs and PSOs are calculated. The three levels of PO/ PSO attainments are decided by Department advisory board depending on previous attainments levels. In

case PO/PSO has achieved the expected value, then the target is increased by 5% otherwise the previous target is retained and action plan is prepared for improvement.

Practices of the institution pertaining to the outcome based education (OBE) in view of NEP 2020.

1. Multiple Entry and Exit

The OBE setup at RSCOE has is implemented in progressive way. After every semester the CO attainment and partial Program outcome attainments are calculated. Courses like summer internships and certification programs are mapped to Program outcomes. In case of multiple entry students previous records are maintained in ERP.

2. Academic bank of credit

The courses done for acquiring credits are mapped to POs. The assessment done for acquiring the credits can be transferred to calculate attainment. The institute uses an ERP software which facilitates this exchange.

3. Multidisciplinary approach through department like arts, science, humanities and Interdisciplinary courses by forming cluster of different departments at institute level.

Students are allowed to select elective courses and open electives. The autonomous status helps the students to select a course of their choice from other departments and import the assessment required for attainment.

4. Credits for club activities

For PO 6 to PO 12, professional club activities, student association activities are considered. Activities where students can earn credits are disseminated among the students via website and notices. Standard SOPs are designed for systematic assessment and evaluation of such chapter activities.

20.Distance education/online education:

Online teaching and learning make students more responsible for their own education. ICT helps students get ready by letting them explore, assess, share, and present information in a fairly organized way. Modern learners are good with technology, so using ICT in their everyday learning

makes them feel and look good. Students are encouraged to learn value-added courses, skill development courses, etc. Using ICT to teach and learn is part of the education system today. ICT-based education helps, improves, and uses information delivery in the best way possible. The classrooms have LCD screens and Wi-Fi, which makes it easy for teachers to upload their lessons and materials and encourages them to do so. This helps online classes and learning go smoothly. Technology also gives us great opportunities to make learning easier for everyone, no matter what their needs are. Students can learn both theoretical and practical skills with the help of technology. Faculty members get regular training and development on how to make e-content. For each module, the faculty makes e-content and puts lecture videos, PPTs, and other learning materials in the ERP software. During live classes, counseling sessions, and mentoring, the teachers talk to the students through the mobile app. Students use the app on their phones to turn in assignments, take MCQ tests, and take descriptive online tests. They can get course materials at any time from the ERP software. Our institute offers some courses online through NPTEL, Swayam etc.

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	14

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 Total number of students during the year:	3947

File Description	Documents
Institutional data in Prescribed format	View File

2.2 Number of outgoing / final year students during the year:	1062

File Description	Documents

Institutional Data in Prescribed Format		View File

2.3 Number of students who appeared for the examinations conducted by the institution during the year:	3960

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 Number of courses in all programmes during the year:	490

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 Number of full-time teachers during the year:	224

File Description	Documents
Institutional Data in Prescribed Format	View File

3.3 Number of sanctioned posts for the year:	224

4.Institution

4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	609

4.2 Total number of Classrooms and Seminar halls	61

4.3 Total number of computers on campus for academic purposes	1150
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	986.66

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The Institute has a well defined process for development, revision and implementation of curriculum focussing on the local, national, regional and global developmental needs. The Institute follows the OBE process and these are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes. An effective implementation of OBE ensures that our graduating engineers can compete on a global platform, and have expected global attributes. The suggestions obtained from stakeholders are analyzed to improve the quality of the curriculum. There is a flexibility in curriculum which encourages students to benefit from the relevant online courses like NPTEL/SWAYAM and other MOOC courses. Honors, Major and Minor Courses are offered in all disciplines. The Curriculum is designed as per the new National Educational Policy (NEP) to ensure the students have the required knowledge, skills and attitude towards lifelong learning.

For additional details, refer following URLs:

https://www.jspmrscoe.edu.in/details/CO-PO-PSO1

COs/POs/PSOs in syllabus of various departments:

https://www.jspmrscoe.edu.in/CivilEngineering/Syllabus

https://www.jspmrscoe.edu.in/ComputerEngineering/Syllabus

https://www.jspmrscoe.edu.in/ElectricalEngineering/Syllabus

https://www.jspmrscoe.edu.in/MechanicalEngineering/Syllabus

https://www.jspmrscoe.edu.in/EAndTcEngineering/Syllabus

https://www.jspmrscoe.edu.in/InformationTechnology/Syllabus

https://www.jspmrscoe.edu.in/AutomationAndRobotics/Syllabus
https://www.jspmrscoe.edu.in/ComputerScienceAndBussinessSystems/Syllabus

https://www.jspmrscoe.edu.in/MBA/Syllabus

https://www.jspmrscoe.edu.in/MCA/Syllabus

File Description	Documents
Upload additional information, if any	**View File**
Link for additional information	**https://www.jspmrscoe.edu.in/details/CO-PO-PSO1**

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

14

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	**View File**
Details of syllabus revision during the year	**View File**
Any additional information	**No File Uploaded**

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

68

File Description	Documents
Curriculum / Syllabus of such courses	**View File**
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	**View File**
MoUs with relevant organizations for these courses, if any	**No File Uploaded**
Any additional information	**No File Uploaded**

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

189

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	**View File**
Any additional information	**No File Uploaded**
Institutional data in prescribed format (Data Template)	**View File**

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

12

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	**View File**
Any additional information	**View File**
List of Add on /Certificate programs (Data Template)	**View File**

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Professional Ethics: Courses like Professional Practices in Civil Engineering, Business Management, Fundamentals of Management and Strategy formulation), Construction Management etc. are introduced by the institution to develop project management aspect & entrepreneurship skills. Indian standard codes, internet security, Plagiarism check etc. are rigorously followed to imbibe professional ethics

Gender-Equality: Same dress code is prescribed for both the genders and equal opportunities are given for participation in student council, class representation, training programs, placement opportunities, co-curricular & extracurricular activities. Motivational lectures of eminent personnel have been organized on gender issues such as Women empowerment, Role of women in development of nation, Self defence awareness program etc. Women's Day programme is celebrated every year to bring gender sensitivity among staff, faculty and students.

Environmental-and-Sustainability: Students have a compulsory course on Environmental Studies in their curriculum. Shashwat Club, an eco-sustainability club, carries out activities for environmental protection and ecological preservation. This year the theme was 'United Nation Sustainability Goals'. The Institute is a part of 'Unnat Bharat Abhiyan, an initiative taken up by the MHRD to uplift rural India. This year the students gave a training on assembling solar lamps to school children.

Human Values: Human Values and Ethics course is made compulsory for all departments. The faculty members teaching the course have undertaken relevant workshops offered by AICTE. The course aims at fostering respect, honesty, integrity, accountability, obedience among the peers, superiors and juniors.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	**View File**
Any additional information	**No File Uploaded**

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

14

File Description	Documents
List of value-added courses	**View File**
Brochure or any other document relating to value-added courses	**No File Uploaded**
Any additional information	**View File**

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

1216

File Description	Documents
List of students enrolled	**View File**
Any additional information	**View File**

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1841

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	**View File**
Any additional information	**No File Uploaded**

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	**A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	**https://www.jspmrscoe.edu.in/naac**
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	**View File**
Any additional information	**View File**

1.4.2 - The feedback system of the Institution comprises the following	**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	**https://www.jspmrscoe.edu.in/details/Stakeholder**
Any additional information	**View File**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

3947

File Description	Documents
Any additional information	**No File Uploaded**

Institutional data in prescribed format	**View File**

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

514

File Description	Documents
Any additional information	**No File Uploaded**
Number of seats filled against seats reserved (Data Template)	**View File**

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The institution assesses the learning levels of the students in two ways at the time of the commencement of the programme. Students enrolled in various disciplines are identified as slow and advanced learners initially based on their +2 marks and the entry level test conducted by the institute. Second year onwards, the list of slow and advanced learners is prepared before commencement of new semester based on Previous semester Mid-Term Test, End-Term Test, Continuous assessment record, Term work and Practical exam marks. The tutors of the respective classes of UG and PG extend valid support in classifying the students with reports based on observation and class tests. This helps to design special coaching sessions or tutorial sessions to bridge the gap between the slow learners and the advanced learners. Strategies adopted for slow learners: Remedial Classes are conducted with an aim to improve the academic performance. Academic and personal counseling. Strategies for the advanced learners: Special Coaching classes to secure University Ranks. Advanced learners are encouraged to enroll in MOOC Courses – Swayam. Coaching classes for competitive exams. Talented students are motivated to participate in cocurricular, extra-curricular activities, exhibitions and cultural competitions.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**Nil**

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/08/2021	**3947**	**224**

File Description	Documents
Upload any additional information	No File Uploaded

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Experiential learning: 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: 1. To understand the concepts 2.To be more creative 3.To acquire valuable experiences through students' mistakes 4.To reflect through opportunities 5.To improve attitudes of the students toward learning Project Based Learning In this, students dive into real-world problems over an extended period of time, which requires them to apply their knowledge. It focuses on problem based, project centered activities. PBL is based on re-engineering processes that bring students 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. Engineering Design & Development Laboratory of RSCOE: This lab is equipped with tools like laser cutting machines, 3D printers, flexo robotic hands, micro controllers and various softwares. 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 which may lead to patents.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	https://www.jspmrscoe.edu.in/details/innovative_Practices

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

The pandemic has forced us to shift to a virtual mode of learning. Information and Communication Technology (ICT) has helped to survive and adapt to the new ways of learning. Considering the various challenges, efforts have been made to optimize the potential of the existing and new educational platforms to be made available for students. Institute facilitated the extensive use of MOODLE which helps faculties to create their own dynamic course contents that extend learning, anytime, anywhere. Students use online virtual laboratories developed under MHRD-IIT for demonstration of experiments that helps them in learning through remote experimentation. Our customize Moodle has wide of standard and innovative features like MCQs, Questionnaire, Web link for eresources, NPTEL link, Case studies, Research paper link, Subject Notes, videos can be

uploaded, recorded videos. Our institute have created Youtube – RSCOE Knowledge Centre where e-contents prepared for students. Smart Board is installed in every department. We also use online tools like Zoom, Google Classroom, Google meet, Webex to reach every learner. Students are encouraged to do NPTEL and Spoken Tutorial courses for knowledge enrichment. ICTs have made teaching and learning interactive and collaborative instead of the traditional teacher- talking and students listening approach.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	**https://www.jspmrscoe.edu.in/details/2022-2023-ict**
Upload any additional information	**View File**

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

197

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	**View File**
Circulars with regard to assigning mentors to mentees	**View File**

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic calendar prepared and adhered for conduct of Examination and other related matters: Academic Co-ordinator prepares academic calendar for each semester in line with Academic Calender of affiliated university for commencement and conclusion of term, Practical/Oral and Theory examination. It also includes different activities like tests, assignment execution, seminars, workshops, industrial visits, cultural-social-technical activities and schedule of meetings with Principal, academic coordinator and HOD. Departmental academic coordinator (DAC) is responsible for maintaining records of monthly attendance, status of syllabus completion and records of GFM activities. GFM is a guardian faculty member of a particular class who plays important role in mentoring of students, monitoring their attendance, preparation of monthly attendance.GFM also acts as mediator between institute and parents. In each department there is a program coordinator under whom, according to specialization, modules are formed. Each module is coordinated by module coordinator. Course coordinator along with other subject teacher prepares teaching plan, practical plan, unit wise question bank, MCQs, assignments of respective subjects. This system helps in overall development, achievement of students which is beneficial for growth of the institute.

Principal as a head of institute monitors whole system at the academic as well as at the administrative level.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	**View File**

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

224

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	**View File**
List of the faculty members authenticated by the Head of HEI	**View File**
Any additional information	**No File Uploaded**

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

41

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	**View File**
Any additional information	**No File Uploaded**

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1568

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	**View File**
Any additional information	**No File Uploaded**

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year	
30	

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	**View File**
Any additional information	**No File Uploaded**

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

19	

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	**No File Uploaded**
Upload any additional information	**View File**

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Reforms initiated on Continuous Internal Evaluation (CIE) system at the institutional level. MOODLE learning Management System is utilized for Continuous internal evaluation, self-evaluation of students through LMS. The institute regularly conducts, group discussions, seminars and guest lectures. Institute has transparent continuous internal evaluation system which consists of internal assessment tests (twice in a term), re-test and evaluation of practical exercises. Students attendance is regularly updated on Moodle. During the assessment, attributes like technical ability of student communication skill, logical understanding behavior of the student, personality, ethical values and professionalism is observed and rated. The department communicates progress report of their ward to the parents to maintain the transparency. For internal evaluation, each department has test coordinator for smooth conduction of internal tests. The results of evaluation are declared within eight days. The model answers are also discussed during lecture sessions. For mistakes in examination forms, conduction of online and in semester examinations, the institute solves the issues through proper channel and helps the students regarding the same. In case of issues related to revaluation, rechecking, and photocopying of the answer books, institute helps students to resolve the problem as per university guidelines and following proper channel to solve the issues.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	**https://www.jspmrscoe.edu.in/examination**

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

For every course, Course Outcomes (CO) are framed considering Bloom;s Taxonomy. Every outcome indicates the expected learnings at the end of the course. Each course has 3-5 course outcomes depending on its significance, mapped to the Program Outcomes Each Course Outcome is mapped to relevant POs. The relevance assigned as following numerical weights: high correlation(3), medium correlation (2), low correlation (1), and no correlation (blank). The Substantial - 3 corresponds to the "Significant "relevance to PO, Moderate -2 corresponds to the "reasonable relevance to PO, Slight - 1 corresponds to the "slender" relevance to PO. Learning activities related to the outcome must be a required part of the course, but there is no minimum performance requirement for the students to meet. The Course-PO's matrices, for all courses, are framed by rounding off the average value of the mapping results for each PO. At the end of each course, the COs need to be assessed and evaluated to check whether they have been attained. The department designs and defines the evaluation scheme to gather the assessment data in consultation with DAB along with the guidelines published by regulatory bodies from time to time. The Module Coordinator and Program Coordinator ensure the effectiveness of the CO communication process.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	**View File**
Upload any additional information	**No File Uploaded**
Link for additional Information	**https://www.jspmrscoe.edu.in/details/CO-PO-PSO1**

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Attainment of the COs is measured by direct and indirect tools

Direct Method: Direct attainment displays the student's knowledge and skills from their performance. It can be determined from the performance of the students in all the relevant assessment tools – like internal assessments, assignments, quizzes, and university examinations.These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.

Indirect Method: Indirect methods such as surveys and interviews ask the stakeholders to reflect on students' learning. They assess opinions or thoughts about the graduate's knowledge or skills. Indirect measures can provide information about graduates' perception of their learning and how this learning is valued by different stakeholders.

Attainment is reported only for the intersection of CO-PO which has been mapped with level 1/2/3. Program outcomes are intended to provide general information about the focus of student learning and are broad statements of the expected learning. The process and policies for attainment are well established in the Department advisory board (DAB) in consultation with all stakeholders.The data collection processes for attaining the POs are based on direct and indirect tools. The attainment of the COs is linked to the attainment of the POs (Program Outcome).

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**https://www.jspmrscoe.edu.in/details/attainment**

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

1062

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	**View File**
Upload any additional information	**No File Uploaded**
Paste link for the annual report	**https://www.jspmrscoe.edu.in/examination**

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://www.jspmrscoe.edu.in/details/analysis-sss-21-22

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which

Research and Development cell

The Research and Development cell was established to promote research activities in the institute. The objectives are to develop strategic plan for scientific and technology research which includes supervision, execution of research, interdisciplinary and multidisciplinary research, academic research collaboration with national and international institution/Universities, Government/private industry, government funded/ private funded projects, IPR and transfer of technology.

Objectives

- Integrate research and education.
- Enable faculty members and students to transform the knowledge into research by adding incremental improvement.
- Promote research potential of faculty members with their innovative ideas. Generation of patents and IPRs.
- Check Malpractices and Plagiarism in Research

Functions

- Identification of thrust areas in Engineering and Sciences
- Up-gradation of Research laboratories, need based
- Research Journals Provide guidance for submitting proposals to various government and non-government funding agencies.
- Incentives for Research and IPR activities
- Joint Research with industries and Co-guides from universities of national and international repute.

The institute provides the following research facilities:

1. Digital library with international and national books and journals
2. Research laboratory
3. Advanced equipment, high end data systems, mathematical and analytical software for VLSI and Signal and Image processing
4. High speed internet facility with Wi-Fi
5. Access to plagiarism software
6. Residential facility as per requirement
7. Expert lectures by eminent faculty members, industry experts.

| File Description | Documents |

Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	**View File**
Provide URL of policy document on promotion of research uploaded on the website	**https://www.jspmrscoe.edu.in/research-policy**
Any additional information	**View File**

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

4.11

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	**View File**
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	**View File**
List of teachers receiving grant and details of grant received	**No File Uploaded**
Any additional information	**View File**

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

01

File Description	Documents
e-copies of the award letters of the teachers	**View File**
List of teachers and details of their international fellowship(s)	**View File**
Any additional information	**No File Uploaded**

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

295.734

File Description	Documents

e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	**View File**
List of projects and grant details	**View File**
Any additional information	**No File Uploaded**

3.2.2 – Number of teachers having research projects during the year

4

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**https://www.jspmrscoe.edu.in/EAndTcEngineering/ResearchGrants**
List of research projects during the year	**View File**

3.2.3 – Number of teachers recognised as research guides

21

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	**View File**
Institutional data in Prescribed format	**View File**

3.2.4 – Number of departments having research projects funded by Government and Non-Government agencies during the year

2

File Description	Documents
Supporting document from Funding Agencies	**View File**
Paste link to funding agencies' website	**https://dst.gov.in/**
Any additional information	**No File Uploaded**

3.3 – Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

A. Research:

The Research and Development cell was established to promote research activities in the institute. The institute nurtures the research culture among the students and researchers for innovation. The institute has approved research Center for PhD in three departments.

B. Entrepreneurship:

Institute has a dedicated Entrepreneurship Development Cell which is a student-run organization of spirited individuals who are striving to create, foster and promote entrepreneurship among the students. The E-Cell pilots the budding entrepreneurs towards their goals through all the necessary resources like mentoring, consultancy and networking with Alumni, Entrepreneurs. We enable smooth and efficient interaction between its principal components spanning students, faculty, working professionals, aspiring and existing entrepreneurs, mentors, and venture capitalists. The institute being awarded by the Institute's Innovation Council (IIC) with "Excellence in Promoting Innovations and Entrepreneurship"

Incubation

The institute has established Innovation and Incubation Foundation (IIF) section 8 company to provide an Ecosystem to nurture Innovation and Entrepreneurship amongst the students to become Self Reliant. The purpose is to offer unique and incentivized solutions, which will encourage to ideate and design novel solutions. IIF is working under the various research areas such as Agriculture, Electrical vehicles, Energy, Artificial Intelligence and Machine learning, Automation, Robotics and Drone Technology, Defence, environment, healthcare-related projects. IIF also guides for patent procedures and IPR awareness sessions in association with KAPILA and NIPAM.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/iic**

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

85

File Description	Documents
Report of the events	**View File**
List of workshops/seminars conducted during the year	**View File**
Any additional information	**No File Uploaded**

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	**View File**
Any additional information	**No File Uploaded**

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

27

File Description	Documents
URL to the research page on HEI website	**https://www.jspmrscoe.edu.in/research-and-development**
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	**View File**
Any additional information	**View File**

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

131

File Description	Documents
List of research papers by title, author, department, and year of publication	**View File**

Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

31

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

1459

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

273

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

23.46

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File

Any additional information	**No File Uploaded**

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

38.97

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	**View File**
List of training programmes, teachers and staff trained for undertaking consultancy	**No File Uploaded**
List of facilities and staff available for undertaking consultancy	**View File**
Any additional information	**No File Uploaded**

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

RSCOE is committed to serve the society by conducting various extension activities.

NSS (National Service Scheme) club of RSCOE has conducted an event on Women's Empowerment Program. As a social responsibility towards society Blood Donation camp was organized at RSCOE in March 2022. Further, Covid-19 Vaccination camp was conducted at RSCOE in March 2022 under NSS.

To create environment awareness amongst students, the following activities like tree plantation, Energy Conservation Day activity is carried out in the month of Sept 2021.

ShashwatClub (Eco Sustainability Club) organized Healthy Diet Webinar for Health awareness.An event was organized on "Good Health and Wellbeing" in collaboration with the Shashwat Clubin Feb. 2021. Shashwat Club organized Yoga Workshop on Feb 2021. Through this event, various precautions or safety measures that can be taken for a safe and environmentally friendly Ganesh festival were brought into the limelight.

Rotaract Club of RSCOE conducted activity of cloth donation to needy people. To encourage more young voters to take part in the election Voters day is celebrated in Jan 2022 at RSCOE.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.jspmrscoe.edu.in/extra-curricular-activitie

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

28

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

37

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

3172

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

File Description	Documents
Copies of documents highlighting collaboration	**View File**
Any additional information	**No File Uploaded**

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

37

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	**View File**
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	**View File**
Any additional information	**No File Uploaded**

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The college is providing the well equipped learning infrastructure including 58 Classrooms,87 laboratories with ICT facilities. 8 smart classrooms and 06 seminar hall with video- conferencing facility. The language laboratory, computer centre including latest i5, i9 and Xeon are available in central computing facilities. The IT server room insures the protection of Sophos x550 firewall with 155 Mbps and 500 Mbps dedicated lease line for laboratories and Wi-Fi.

The centralized training and placement office includes conference room, presentation room, interview rooms, and assembly rooms. The principal office, departmental HOD cabins with meeting room are ICT equipped ensuring best service.

The workshop area is 1200+Sqmt including VMC, BMC, CNC, Heat- Transfer and power generation machine, wind turbine, wing tunnel, lathe machines.

The library includes stack area, reference room, digital library, accession counters, reprography room, presentation and discussion room and air-conditioned reading hall with 250+ capacities.

Institute has developed laboratories in collaboration with industries like Bentley Systems, Tata Automotives Ltd., Nayan Electonics, Zensar Technologies, TCS, IIT Ropar.

The institute has Girls and Boys Hostel on the campus with canteen facility. Medical facility room, gymkhana facilities including indoor game, cultural activity halls are available. The uninterrupted power supply is ensured by UPS, Battery Backups and dedicated power generators.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/campus-life**

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Facilities for Cultural Activities and Sports:

Institute has ground for outdoor sports facility such as football, cricket, volleyball, basketball, kabaddi, kho- kho,etc.

Institute has gymkhana for indoor games like – table tennis, carom and chess.

A 300 seating capacity auditorium is available in institute for various program. The institute also has another auditorium with a seating capacity of 110 students.

Institute organizes annual sports and cultural gathering 'Gandharv' and Inter collegiate level games. International stadium Shri Chatrapati Sports Complex, Balewadi, Pune and PCMC Sports grounds are also available in the proximity of the college to conduct sports events for the students.The institute has a Yoga centre with a capacity to accommodate 150 students.

Gymkhana is well equipped with good indoor and outdoor sports facilities such as kabaddi, Volley Ball, Table Tennis, Carom boards, Basketball, Cricket, Badminton Football etc. RSCOE have good sport ground but also college hires various stadiums and sports grounds as and when required to conduct these events. Since inception institute produced number of National Level, State Level and University Level players in these games.

File Description	Documents
Geotagged pictures	**View File**
Upload any additional information	**No File Uploaded**
Paste link for additional information	**https://www.jspmrscoe.edu.in/campus-life/facilities-available**

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

64

File Description	Documents
Upload any additional information	**View File**
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	**View File**

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

39.26

File Description	Documents
Upload audited utilization statements	**View File**
Details of Expenditure, excluding salary, during the years	**No File Uploaded**
Any additional information	**View File**

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

The RSCOE library is a resource center for teaching, learning & research. Being the heart of the academic center, it is home for all the information services. The library has Reading hall with seating capacity of 250 students, Digital library, periodic sections, and reference section managed and maintained under the supervision of Library advisory committee.

Integrated Library Management System viz. Library Information Management (Auto Lib) Software is deployed for managing the library. The Institute's Library is automated since 2015. Auto Lib is integrated multi-user, multi-tasking, user friendly software. All the books are bar-coded generated through Auto Lib software. Bar-Code Scanner, Document Printer, Document Scanner, Server Machine, Computer Systems with the support of ICT tools are available in the Library.

```
Details are:

Name of software: Auto lib NG With Web OPAC

Nature of automation: partially

Year of Automation: 2011

Version: Upgraded Web OPAC Version

Following modules available in software help library staff to work effectively.

  1. Acquisition
  2. Cataloguing
  3. Serial Control
  4. Circulation
  5. Web OPAC

Different Software Modules Available in Auto Lib which helps library staff to work efficiently.
```

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/Library**

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources	A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	**View File**
Upload any additional information	**View File**

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

34.38

File Description	Documents
Audited statements of accounts	**View File**

Any additional information	**View File**
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	**View File**

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

187

File Description	Documents
Upload details of library usage by teachers and students	**View File**
Any additional information	**View File**

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities every academic year. With the increasing demand for internet access in educational campuses due to evolving standard of education and flexibility offered by the Internet – RSCOE are keenly stepping forward to setup secured and stable wired or Wi- Fi network campus for their students to access internet from class room to library to labs and hostels.

Currently we are using leased line of 155 Mbps from Teleglobal communications private limited and 500 Mbps from Tata Tele services Private limited. The institute also provides Wi- Fi facility to students at both hostels as well as in campus.

The institute internet is secured using Sophos x550 firewall. The institute has a 24X7 Wi- Fi facility in the college campus for the student and faculty members to avail internet connection at any place in the college& hostel.

The connectivity through a fully networked campus with state-of-the- art IT infrastructure, computing & communication resources, offers students the facilities of digital cotents, e-mail, net surfing, up/down loading of web based application, besides helping them in preparing projects & seminars.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**Nil**

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3947	1150

File Description	Documents
Upload any additional information	**View File**

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ≥50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	**View File**
Upload any additional information	**No File Uploaded**

4.3.4 - Institution has facilities for e-content development:
Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	**View File**

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

52.02

File Description	Documents
Audited statements of accounts	**View File**
Upload any additional information	**No File Uploaded**

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The Institute has well defined procedures along with monitoring to ensure proper maintenance and utilization of infrastructure, library, sports grounds, laboratories, classrooms, seminar halls, auditoriums. For the up keep of computers, LAN, internet, Wi-Fi and other ICT facilities separate provisions have been made under the supervision of system administrator.

The institute has qualified staff for the maintenance of electrical work, civil work etc. To meet power break down and to provide adjustable power base, Gensets have been installed which are technically manned by the trained technicians.

Laboratory:

Equipment, instruments and appliances involved in the teaching-learning process are provided continuous maintenance and repair.

Sports Facilities:

Various sports faculties are regularly used for competitions &practice.

The indoor and outdoor sports facilities regularly monitored. Sport director has been appointed by the institute to carryout sport activities.

Computers:

System administrator is responsible for proper utilization and maintenance of LAN, Internet and Wi-Fi facilities.

Repair and maintenance of Lab equipments and instruments is carried out by internal technicians under the guidance of System administrator.

Technical Aids such as Multimedia Projectors, Laptops, desktops, printers, Wi-Fi, LAN etc are maintained by trained technicians.

Classrooms:

All classrooms are cleaned every day on regular basis and maintained by housekeeping department.

The supervisors are responsible for the maintenance of the buildings and physical facilities including washrooms.

Library:

Library is organized into sections viz. Reading Area, Circular Section, Periodical Section, Reference Section, Digital Library section, Newspaper/Magazine section, Stack room which are managed by professionally qualified staff.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/campus-life/facilities-available**

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2585

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	**View File**
Upload any additional information	**View File**

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

8

File Description	Documents
Upload any additional information	**View File**
Institutional data in prescribed format	**View File**

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving	**A. All of the above**

students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	

File Description	Documents
Link to Institutional website	**https://www.jspmrscoe.edu.in/extra-curricular-activitie**
Details of capability development and schemes	**View File**
Any additional information	**View File**

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

2025

File Description	Documents
Any additional information	**View File**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	**View File**

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	**A. All of the above**	

File Description		Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee		**View File**

Details of student grievances including sexual harassment and ragging cases	**View File**
Upload any additional information	**View File**

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

651

File Description	Documents
Self-attested list of students placed	**View File**
Upload any additional information	**View File**

5.2.2 - Number of outgoing students progressing to higher education

12

File Description	Documents
Upload supporting data for students/alumni	**View File**
Details of students who went for higher education	**View File**
Any additional information	**No File Uploaded**

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

11

File Description	Documents
Upload supporting data for students/alumni	**View File**
Any additional information	**View File**

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

81

File Description	Documents
e-copies of award letters and certificates	**View File**
Any additional information	**View File**

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

The establishment of student council in the institute plays an integral and important role in the student community. Student council provide a representative structure through which students can debate issues of concern and undertake initiatives of benefit to the college and the wider community Students have a voice and a contribution to make to their college. It is important that they be given the opportunity to express their views on issues of concern to them in the college. It is equally important that they are listened to and encouraged to take an active part in promoting the aims and objectives of the college.

Objectives:

 • To enhance communication between students, management and staff
 • To promote an environment conducive to educational and personal development
 • To promote friendship and respect among pupils
 • To support the management and staff in the development of the college
 • To represent the views of the students on matters of general concern to them

The following are the various academic and administrative bodies:

 • Student Council
 • IQAC, DAB, Focus group
 • All Student Chapters
 • Anti-ragging Committee
 • Hostel committee
 • NSS(National Service Scheme)
 • Departmental Students Associations
 • Earn and Learn Scheme of SPPU
 • Research and development Cell
 • Cultural & Extra-co-curricular activity

- **Each department has appointed student Welfare coordinator, Sports coordinator and Cultural coordinator. This coordinator collects the data of the interested students and encourages them to participate at differentlevel.**
- **Dedicated infrastructure is available where the students carry out their practice related to different activities/events.**

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/non-statutory-committee**

5.3.3 - Number of sports and cultural events / competitions organised by the institution

15

File Description	Documents
Report of the event	**View File**
List of sports and cultural events / competitions organised per year	**View File**
Upload any additional information	**View File**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The objective of the Alumni Association of RSCOE is to reach, engage and serve all alumni & present students by networking with one another to foster a lifelong intellectual and emotional connection between the institute and its graduates. The alumni association of RSCOE 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 always ensured that alumni are encouraged to stay connected with their alma-mater and inspire and motivate current students. RSCOE has partnered with Univibe Network to provide its Alumni with 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 organizations worldwide. The active network and collaboration with alumni help the institute in overall development in the following ways:

- **Registered Alumni association**

- **Alumni meeting is organized every year**

- **Alumni are informally part of the teaching-learning process through expert lectures, project guides, and organizing industrial visits.**

- **Alumni are in communication with the institute through Social networking sites like Facebook, WhatsApp, and Google drive-chat.**

Registration: MH/365/2007 dated 06/03/2007

Number of Alumni: 9414

Number of Alumni-Meets held so far: 17

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**https://www.jspmrscoe.edu.in/alumni-testimonials**

5.4.2 - Alumni's financial contribution during the year	**D. 2 Lakhs - 5 Lakhs**

File Description	Documents
Upload any additional information	**View File**

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The mission of the institute statement defines the Institute's distinctive characteristics in terms of addressing the needs of the society. The Vision and Mission are in tune with the objectives of higher education. Reflection of Mission and Vision in the leadership of institute ensures: 1. The policy statements and action plans: The management and Principal actively participate in GB and LMC/CDC for ensuring the policy statements and action plans are aligned for attaining the vision and mission of institute.The Principal makes action plans in consultation with faculty members. 2. Formulation of action plans: The action plans are formulated in line with quality policy under the leadership of the Principal and the same are incorporated into strategic plans for effective implementation. 3. Interaction with stakeholders: The Principal ensure that all stakeholders are involved in different activities. 4. Proper support for policy and planning: The requirements of the society for policy making and planning are collected by the Principal through interaction with

various stakeholders. 5. Reinforcing the culture of excellence: For the reinforcement of cultural excellence the vision, mission, short term and long term goals, quality policies are kept wide open to all stakeholders for their suggestions, necessary training is provided to its faculty and supporting staff for their development and motivates the team building and team work to create healthy work culture. Participation of the teachers: Through participative management, the faculties are involved in various decision making bodies of the institute.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**https://www.jspmrscoe.edu.in/details/organisation-chart**

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Institute has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance system. 1. Principal Level The Governing Body delegates all the academic and operational decisions based on policy to the Academic Monitoring Committee headed by the Principal in order to fulfill the vision and mission of the institute. Academic Monitoring Committee formulates common working procedures and entrusts the implementation with the faculty members. 2. Faculty Level Faculty members are 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, co-curricular, and extracurricular activities. They are given authority to conduct industrial tours 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 following committees are formed. 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 co-curricular and extra-curricular activities, social service group coordinator.

File Description	Documents
Upload strategic plan and deployment documents on the website	**View File**
Upload any additional information	**View File**
Paste link for additional Information	**https://www.jspmrscoe.edu.in/details/strategic-development-plan**

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

JSPM's Rajarshi Shahu College of Engineering focuses on strategic steps toward the next level of inclusive excellence by accomplishing institutional goals.The Institute Quality Assurance Cell (IQAC) constituted a subcommittee to prepare a SDP called "RSCOE:VISION 2025". This Plan is based on analysing present challenges and opportunities along with futuristic activities that leads to achieve goals and objectives.The stakeholder expectation fulfilment and institute goal achievement are estimated by doing study of internal and external environment scan. Experts has conducted Strength, Weakness, Opportunities and Challenge (SWOC) analysis. This SWOC analysis helped in defining the strategies.These strategies are divided into nine strategic-goals given as below:

- Delivering Effective Governance
- Academic Excellence through Outcome-Based-Education
- Sustainable Infrastructure
- Enrichment of Human Resource
- Student Progression through Holistic Education
- Empowering Minds through Research and Innovation
- Collaborate and Excel
- Community Outreach
- Building the 'Brand RSCOE'

Strategic goal: Academic Excellence through Outcome Based Education

The institute has signed MoU with IIT ROPAR for curriculum design alongwith industries like TCS,VERITAS,KPIT, Persistent Ltd. The major focus on student performance is through outcomes which includes the subject knowledge, industry required skills and attitudes.

The new curriculum considers Problem Based Learning (PBL) as a teaching pedagogy and includes different subjects that encourage the students for hands on learning through virtual labs, mini-projects etc. Along with experiential learning, the curriculum also motivates the students to inculcate creativity and innovation. The curriculum provides a freedom for students to perform industry assignments, pilot projects, innovative developmentetc.

File Description	Documents
Strategic Plan and deployment documents on the website	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/details/strategic-development-plan**
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The governance of the instituteindicates the formal and informal arrangements that allows usto make decisions and take action. The governance overlaps considerably with management which is seen as the implementation and execution of policies effectively. Objectives are set to promote good governance across a wide variety of situations at the institute considering major principles of such as Academic Freedom, Shared Governance, Clear Rights and Responsibilities, Meritocratic Selection, Financial Stability, Accountability, Team Building and Transparency.

All post of Deans has been created in the academic year 2019-20 as institute become autonomous. All the administrators are having more than 15 years of working teaching experience in university-affiliated institutes. RSCOE typically worked as "a well-oiled machine," where all will look at the administrative hierarchy for decision making. Being new to an autonomous institute environment, the demarcation of each administrative post's 'key responsible area' is thinly defined. Though many Dean's posts have been created, they are complimenting each other in the present situation.

Decentralization of administration with clear cut roles, responsibility, and accountability, will allow the institution to make significant strides towards realizing the goals of better administration. The institute defined roles, responsibilities, and objectives. Moreover, key performance indicators, a set of targets and goal has to identify by members.

File Description	Documents
Paste link to Organogram on the institution webpage	**https://www.jspmrscoe.edu.in/details/organisation-chart**
Upload any additional information	**View File**
Paste link for additional Information	**https://www.jspmrscoe.edu.in/details/service-rules**

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination	**A. All of the above**

File Description	Documents
ERP (Enterprise Resource Planning) Documen	**View File**
Screen shots of user interfaces	**View File**
Details of implementation of e-governance in areas of operation	**View File**

Any additional information	**View File**

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

In our Institution Staff welfare is given foremost importance. Welfare measures for teaching and non-teaching staff are summarized below:

- Group Insurance scheme for staff members.
- Study leaves for Ph D, higher education and training programmes.
- Reimbursement of claim for registration of conference/FDP/STTP/Workshops.
- Casual leave, medical leave, earn leave facility. Maternity Leaves to female staff for six months.
- Provident fund.
- Employee gets fees concession for their ward in JSPM associated schools.
- As Institution has a multicultural environment in the campus, the management ensures the celebration of all the festivals together.
- Internet and free Wi-Fi facilities are available in campus for staff.
- Summer and Winter Vacations for faculty members.
- Faculty development programs(FDP) and Skill development courses for faculty on regular basis to enhance their skills in work environment.
- Gratuity for the employees of the institution.
- Women Empowerment Cell is established for creating venues for women members to flourish and gain momentum.
- Centralized reprography facility (Xerox) for Teaching & Non Teaching staff.
- Salary advance facility for teaching and non teaching staff in case of urgency.
- Sports and Cultural facilities for teaching and non teaching staff.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/details/service-rules**

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

06

File Description	Documents
Upload any additional information	**View File**
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	**View File**

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

03

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	**View File**
Upload any additional information	**No File Uploaded**

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

170

File Description	Documents
Summary of the IQAC report	**View File**
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	**View File**
Upload any additional information	**No File Uploaded**

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Our institute regularly conducts internal and external financial audits. It has a full-time Treasurer and Accounts Department since inception to ensure maintenance of annual accounts and audits.External Audit: External Audit is conducted by the Chartered Accountant of the JSPM group.Internal Audit: Internal Audit is conducted by an accounts officer of the institute. This includes statutory audit covering all financial and accounting activities of the Institute. This includes scrutiny of the following: (a) all receipts from fee, donations, grants, contributions, and interest earned and returns on investments; (b) all payments to staff, vendors, contractors, students and other service providers.

Chartered Accountant of the Institute conducts regular accounts audit and certifies its Annual Financial Statements. All Utilization Certificates to various grant giving agencies are also

countersigned by the CA. All Financial Statements upto 2020-21 have been certified by the CA. Work of Internal Audit of the Institute has been entrusted to the Internal Auditor of the Institute. He also pre-checks salary fixations, pension and gratuity payments and final payments of EPF.

Whenever there are additional expenses over and above the budget proposals, special sanction is to be taken from the Governing body.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/details/audited-report-2021-22**

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	**View File**
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	**No File Uploaded**
Any additional information	**No File Uploaded**

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Mobilization of funds in the institute is through several ways. The primary source of revenue for the college is the Annual fee collected from students. The fee is collected as per the fee and the guidelines of the State fee regulatory authority. The collected fee is deposited into fixed deposits and withdrawn periodically as per the requirements of the institute.

We received grants through sponsored projects from AICTE, SPPU (affiliating university), DST,UGC, industries for the development and maintenance of Infrastructure, upgrade of the Learning Resources, faculty & students trainings and Research (including grants for conferences). Also, funds received through consultancy offered by the institution. Budget estimations are collected and Budget is prepared. The same will be submitted to finance committee & Governing-body for approval.

Funds are provided to meet day-to- day operational and administrative expenses and maintenance of the fixed assets. Funds are utilized for purchase of advanced laboratories equipment to encourage research interest of the faculty and students. Enhancement of library facilities leads to novel learning practices and accordingly required funds are provided every year. Adequate funds are allocated for effective teaching-learning practices that include conduct of FDPs, orientation-

programs, workshops, inter disciplinary activities, training programmes that ensure quality education.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**Nil**

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Internal Quality Assurance Cell (IQAC) consists of head of the institution, heads of departments, faculty representative, senior administrative officers, member from the management, nominees from local society, representative from alumni, students, parents and employers. IQAC is one of the major policy making and implementing unit in our Institute. IQAC communicates with staff of the institution through periodic meetings at different levels. IQAC along with Institute administration gives suggestions based on stakeholder's feedback to improve teaching-learning process. Institute regularly conducts training to staff and faculty members for implementation of quality procedures. IQAC efforts to promote the outcome based education in teaching and learning practices. Institute follows multi level monitoring system to review teaching-learning process to ensure that activities are conducted as per academic calendar. In IQAC meeting, the quality benchmarks and parameters are identified and process of execution is also defined for various Academic and Administrative activities of the Institution. IQAC aids in the creation of a learner-centric environment conducive to quality education.

The Institute takes academic audit of each department and various committees every year through IQAC to increase and maintain the quality of education. Internal and external Academic Audit committee is set up for this purpose.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/achievement**

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

IQAC of the institution ensures quality culture as the prime concern through institutionalizing and internalizing all the initiatives taken with internal and external support and periodical conduct of Academic and Administrative Audit and its follow-up.

IQAC facilitates the learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.

IQAC act as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices. Some of the initiatives are :

- External administrative and academic audit
- Implementation of Outcome-based learning education in each program.
- Promote industrial involvement in academic practices by organizing industrial training, industrial visits, workshops and guest lectures from industry experts, MOUs etc.
- Conducting quality programs i.e., seminars, webinars, guest lectures, conferences, etc.
- To implement and enhance the use of ICT tools to strengthen the teaching-learning process.
- Introduces the employability skill development courses for students to enhance personality and employability.
- Participation of college in NIRF, ARIIA, NBA, AISHE, and various other quality audits recognized by the state, national and international agencies.
- Establishment of Institute Innovation Council (IIC) under MHRD.
- Establishing Research and Development cell to promote Research and Development activities.
- Establishment of various processes to take feedback/surveys from various stakeholders.
- Establishment of the Mentor-mentee process and its effective implementation.
- To institutionalize the best efforts to make the campus ragging-free and develop the discipline in the students along with the establishment of grievance redressal cell.

File Description	Documents
Upload any additional information	**View File**
Paste link for additional information	**https://www.jspmrscoe.edu.in/iqac**

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s)	A. Any 4 or all of the above

Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)	

File Description	Documents
Paste the web link of annual reports of the Institution	**https://www.jspmrscoe.edu.in/details/2021-2022-first-meeting**
Upload e-copies of accreditations and certification	**View File**
Upload details of quality assurance initiatives of the institution	**View File**
Upload any additional information	**View File**

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

We have women empowerment and following areas where our women employees are taking leaderships.

Institute is taking efforts for gender equality to empower and uplift women employees by

1) Mentoring women employees and making them ready for new executive and management roles

2) To prevent sexual harassment and to address women problems at work place institute has active cell of women gradience to make sure healthy environment for women employee and students.

3) Institute organizes gender equality programs to educate men and women employees and students.

4) Institute promotes equal representation in leadership roles for men and women.

5) Fitness programs and yoga activities.

Title of the Programme

Period (from-to)

Participants

Female

Male

Woman day

8-03-2022

15

5

Mental Health & Emotional Quotient

3-06-2022

42

24

International Women's Day

08-03-2022

46

27

For Her: Speech and Poetry Contest

12-02-2022

36

31

POWERING FUTURE LEADERS

5-05-2022

15

7

Yoga

29/12/2021

100

50

File Description	Documents
Upload any additional information	**View File**
Paste link for additional Information	**https://jspmrscoe.edu.in/details/activity-report-jan2022-june2022**

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	**A. Any 4 or All of the above**

File Description	Documents
Geotagged Photographs	**View File**
Any other relevant information	**No File Uploaded**

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Institute enables several techniques for the management of degradable and non-degradable waste. The primary focus is to reduce, reuse and recycle the waste. The Institute has different dustbins to segregate the different waste like solid, biomedical, etc. There are committees that deal with the minimization of waste. Every day the waste is collected in bins and disposed to a place where it can be converted into manure.

In addition to this the institute has organized many workshops on the implementation of these techniques effectively. Training Programmes are conducted from time to time about the methodology of disposing the waste. It was stressed that we should avoid plastic items to the best possible capacity. It is also advised that the Institute should use utensils made of papers and recycled material.

For solid waste management different bins have been placed at different departments. This ensures that solid waste segregated at the source. It is also ensured that the recycling of all these components is done in minimum cost and labor. Suitable techniques are applied for disposing of solid waste.

For biomedical waste there is a classification of the waste in hazardous and non-hazardous or infectious and other hazardous. The waste like plastic disposables, liquid waste and other things are again segregated and then transported for the treatment of the disposal.

For personal protection, it has been advised to use masks while handling the waste.

The Institute has organized Swach Bharat Abhiyan.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	**View File**
Geotagged photographs of the facilities	**View File**
Any other relevant information	**No File Uploaded**

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	**A. Any 4 or all of the above**

File Description	Documents
Geotagged photographs / videos of the facilities	**View File**
Any other relevant information	**No File Uploaded**

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles	**A. Any 4 or All of the above**

3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Geotagged photos / videos of the facilities	**View File**
Various policy documents / decisions circulated for implementation	**View File**
Any other relevant documents	**View File**

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	**View File**
Certification by the auditing agency	**View File**
Certificates of the awards received	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights,	A. Any 4 or all of the above

display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	**View File**
Policy documents and brochures on the support to be provided	**View File**
Details of the software procured for providing assistance	**No File Uploaded**
Any other relevant information	**View File**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Institute organizes and conducted several activities to build and promote an environment for ethical, cultural, and spiritual values among the students and staff. To develop the emotional and religious feelings among the students and the faculty, commemorative days are celebrated on the campus with the initiative and support of the management for not only recreation and amusement but also to generate the feeling of oneness and social harmony.

Motivational lectures of eminent persons in the field are arranged for the all-round development of the students for their personality development and to make them responsible citizens following the national values of social and communal harmony and national integration. Besides academic and cultural activities, we have built up many strong infrastructures for a variety of sports activities for the physical development of the students. In this way the institute's efforts/initiatives in providing an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic, and other diversities.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	**View File**

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

JSPM's Rajarshi Shahu college of engineering sensitizes the students and the employees of the institution to the constitutional obligations about values, rights, duties, and responsibilities of citizens which enables them to conduct as a responsible citizen. The institute conducts regular training Programmes to develop competencies and trainers are arranged for the training Programmes. Seminars, workshops, conferences etc. are organized by the College every year.

The students are inspired by participating in various programs on culture, traditions, values, duties, and responsibilities by inviting prominent people. The institute conducted awareness programs on the ban on plastics, cleanliness, Swachh Bharat, unnat Bharat, River cleaning, blood donation camp etc. involving students.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	**View File**
Any other relevant information	**No File Uploaded**

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized	**A. All of the above**

File Description	Documents
Code of Ethics - policy document	**View File**
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	**View File**
Any other relevant information	**View File**

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The institution celebrates international and national commemorative days, events and festivals regularly. It has conducted several related activities to maintain harmony and healthy work atmosphere and to make the learners aware of the national pride and rich cultural heritage.

Every year the institutecelebrates National Festivals i.e. Independence Day on 15thAugust and Republic Day on 26th by hoisting the national tricolour in the Campus. After unfurling the flag, students sing the National Anthem and other patriotic songs. On these occasions, the dignitaries also deliver Independence/Republic day messages.

The institute also organizes the Teachers'Day every year on September 5 in memory of Dr. S. Radha Krishnan, former President of India. Eminent educationists and teachers are invited to deliver the Teachers'Day.

Some of the commemorative days, events and festivals includes:

- **"Swachh Bharath – Swasth Bharat" a "Clean India Campaign" on 2nd October.**
- **National Education Day are held to mark Maulana Abul Kalam Azad's birth anniversary.**
- **Children's Day as a tribute to India's First Prime Minister, Pandit Jawaharlal Nehru on November 14 every year.**
- **National Unity Day/Week are observed to commemorate the birth anniversary of Sardar Vallabhbhai Patel.**
- **Shivaji Maharaj Jayanti**
- **Rajarshi Shahu Jayanti**

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	**View File**
Geotagged photographs of some of the events	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best Practice-I:Art circle-Rangabhumi

The Context: In engineering college, total environment is of study and research. There are some artists among these engineers! There is world beyond the lectures and assignments we called it "Rangabhumi". The club was formed in 2008 lead by some of these artists. Various activities like 'Naatak', dancing, singing, writing, painting, and all other art form are supported by the Rangabhumi. Preparing play for competition, arranging jamming sessions, to entertain and develop the interests in art.

Objectives:

❖ To provide the platform for students to explore and express their creativity through various artistic medium.

❖ To promote the cultural exchange and awareness by organizing events to celebrate diversity and explore different artistic traditions, styles and perspectives.

❖ To organize the events, exhibitions, showcases and art-related events to display the work the students.

The Practice: Art circle Rangabhumi is pursued by the JSPM's Rajarshi Shahu College of Engineering is a mark our interest toward culture and Art.

Best Practice-II:Team Redline Racing

Engineering has an assortment of fields to explore. An engineer's goal is very trivial. The institute team has a background in automotive design and manufacturing with mechanical at its core. However, the team also integrated electrical, electronics, information technology, and computer science to become a well-rounded team.

Objectives:

To design and manufacture a safe, reliable, cost efficient and performance-oriented vehicle.

File Description	Documents
Best practices in the Institutional website	https://www.jspmrscoe.edu.in/institute-best-partice, https://www.jspmrscoe.edu.in/details/best-practice-II
Any other relevant information	https://www.jspmrscoe.edu.in/extra-curricular-activitie

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Industry Induced Internship Program To support ever demanding industry requirements, the curriculum has included an industry internship with an objective to learn technologies pertaining to their discipline and enhance their technical knowledge with a support of the live platform of Industry.

The institute offered best curriculum designed in line with New Education Policy 2020 (NEP 2020) and by taking inputs from reputed industry and institute of eminence such IITs. NEP 2020 emphasize on recognizing, identifying, and fostering the unique capabilities of each student, by sensitizing teachers as well as parents to promote each student's holistic development in both academic and non-academic spheres. RSCOE has taken a consultancy from expert team of IIT Ropar for developing curriculum structure for undergraduate programme of RSCOE, further expert team of IIT Ropar and various industries helping the institute for designing detailed curriculum for undergraduate(UG) and post graduates (PG) programmes. Students are provided with multiple opportunities to work as interns at various Industries and MNC R&D Laboratories to groom them for the Industry during their 7th and 8th semester. RSCOE offers the options of pursuing minors and honors to students joining B. Tech degree program. This allows students to have additional knowledge in some focus areas, providing them a career edge or pursue an area of specialized study in their field of interest.

File Description	Documents
Appropriate link in the institutional website	**https://www.jspmrscoe.edu.in/ComputerEngineering/Syllabus**
Any other relevant information	**View File**

7.3.2 - Plan of action for the next academic year

- To enhance NIRF ranking amongst top 200 engineering institutions during academic year 2022-23.
- To achieve ARIIA ranking amongst top 50 institutions in India.
- Implementation of Strategic Development Plan 'RSCOE Vision-2025' based on five year strategic plan and will implement the same through Key Result Areas (KRAs).
- Focus on experiential 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 IEEE International Conference on Computing, Communication and Green Engineering (CCGE23).

- Creation of "Innovation Fund" for supporting Innovative Projects and Startup.