



YEARLY STATUS REPORT - 2021-2022

Part A

Data of the Institution

1.Name of the Institution

St Joseph Engineering College,
Mangaluru

- Name of the Head of the institution **Dr Rio D'Souza**
- Designation **Principal**
- Does the institution function from its own campus? **Yes**
- Phone No. of the Principal **08242263753**
- Alternate phone No.
- Mobile No. (Principal) **9663380761**
- Registered e-mail ID (Principal) **iqac@sjec.ac.in**
- Address **St Joseph Engineering College,
Vamanjoor, Mangaluru, Karnataka.**
- City/Town **Mangaluru**
- State/UT **Karnataka**
- Pin Code **575028**

2.Institutional status

- Autonomous Status (Provide the date of conferment of Autonomy) **18/06/2021**
- Type of Institution **Co-education**
- Location **Rural**

- Financial Status **Self-financing**
- Name of the IQAC Co-ordinator/Director **Dr Pavana Kumara B**
- Phone No. **08242263758**
- Mobile No: **9901630288**
- IQAC e-mail ID **head.iqac@sjec.ac.in**

3. Website address (Web link of the AQAR (Previous Academic Year)) <http://sjec.ac.in/img/naac/AQAR%2020-2021.pdf>

4. Was the Academic Calendar prepared for that year? **Yes**

- if yes, whether it is uploaded in the Institutional website Web link:

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A+	3.39	2021	23/02/2021	22/02/2026

6. Date of Establishment of IQAC **16/11/2018**

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
Dr. Bhat Jagadeesha	Research Promotion Scheme (RPS)	AICTE	01/01/2022	1100333
Ms Deepthi S R	Faculty Project Program	KSCST	01/01/2022	45000
Ms Deepthi S R	45th series of Students Project Program	KSCST	01/07/2021	6000
Ms Deepthi S R	VTU Financial Assistance for Innovative final year project	VTU	01/07/2021	5000
Mr Glenson Toney	VTU Financial Assistance for Innovative final year project	VTU	01/07/2021	5000
Dr. Purushothama Chippar	VTU RGS 2021	VTU	01/07/2021	1500000
Dr Binu K G	VTU RGS 2022	VTU	01/07/2021	1500000
Dr Sushanth Gowda	45th series of Students Project Program	KSCST	01/07/2021	12000
Dr Canute Sherwin	45th series of Students Project Program	KSCST	01/07/2021	8000

Ms. Bharathi A Rao	45th series of Students Project Program	KSCST	01/07/2021	7000
Ms. Mayuri R	45th series of Students Project Program	KSCST	01/07/2021	6000
Dr. Sheryl Grace Colaco	45th series of Students Project Program	KSCST	01/07/2021	7000
Ms. Mayuri R	45th series of Students Project Program	KSCST	01/07/2021	8000
Dr Sridevi Saralaya	MODROB ASPIRATIONAL	AICTE	01/07/2021	1902000
Dr Harivinod N	KSCST SPP 45th Series	KSCST	01/07/2021	6000
Dr Ramananda H S	KSTA Small Grant	KSTA	01/07/2021	20000
Dr Ramananda H S	Unnath Bharath	Unnath Bharath	01/07/2021	50000

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 2

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

- If No, please upload the minutes of the meeting(s) and Action Taken Report **No File Uploaded**

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

- If yes, mention the amount

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

Faculty Development Program on "NEP Leadership" on 25 August 2021

Four-Day online webinar on "Strategic leadership for faculty members" on 7, 14, 21 and 28 Sep 2021.

Two days workshop on Change Management on 16 and 23 November-2021.

NBA accreditation of MBA program and Civil Engineering Program

NBA Accreditation of Computer Science Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, and Mechanical Engineering Programs

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
<ul style="list-style-type: none"> • NBA Accreditation of MBA Program and Civil Engineering Program • NBA Accreditation of Computer Science Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering Programs 	<ul style="list-style-type: none"> • Both MBA and Civil Engineering Programs have been accredited for Academic Years 2021-2022 to 2023-2024, i.e., up to 30.06.2024 • Computer Science Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering Programs have been accredited for Academic Years 2022-2023 to 2024-2025, i.e., up to 30.06.2025

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

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
IQAC	25/06/2022

14. Was the institutional data submitted to AISHE ? **Yes**

- Year

Part A

Data of the Institution

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	Program			
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<ul style="list-style-type: none"> Name of the statutory body 	
Name of the statutory body	Date of meeting(s)
IQAC	25/06/2022
14. Was the institutional data submitted to AISHE ?	Yes
<ul style="list-style-type: none"> Year 	
Year	Date of Submission
2022	12/01/2022
15. Multidisciplinary / interdisciplinary	
<p>St Joseph Engineering College (SJEC) is an Autonomous Institute under Visvesvaraya Technological University, Belagavi, Karnataka State, and is recognized by the All-India Council for Technical Education (AICTE), New Delhi. SJEC is registered under the trust "Diocese of Mangalore, Social Action Department". However, St Joseph Engineering College has been trying to inculcate an interdisciplinary approach through its various academic programs, courses, and faculty development programs including Yoga. The interdisciplinary teaching-learning process integrates two or more disciplines and facilitates research of complex problems that cannot be tackled by a single discipline. The courses are trying to harmonize the links between disciplines into a coordinated and coherent system. Combined Views of different disciplines are being offered for interdisciplinary research and Ph.D. program.</p>	
16. Academic bank of credits (ABC):	
<p>St Joseph Engineering College (SJEC) has been attending seminars and lectures arranged on ABC by NAAC and other organizations. The institution is in the process of the same. However, Curriculum equivalence must be checked before signing a MoU. This requires a robust ERP Homogenized groups must be made at the National level.</p>	
17. Skill development:	
<p>The institute has a systematic procedure for the development, revision, and implementation of the curriculum of all the</p>	

programs. The curriculum is carefully designed by addressing emerging technologies and the opportunities that exist at the local, regional, national, and international levels. The curriculum is designed to ensure that the students have the required domain knowledge, skills, and attitude as per the specifications laid down by NBA. The curriculum for each course is designed by referring to the curriculum specified by the affiliating university VTU Belagavi, AICTE Model Curriculum, Curriculum of reputed Indian and International universities, feedback from faculty, industry experts, subject experts, alumni, and various bodies under autonomy structure. In the initial phase of designing the curriculum, the types of courses, the number of electives, the complete details of each course, and its syllabus is framed. In the second phase the Course Outcomes (COs) for every course is mapped with the Program Outcomes (POs) of NBA and the Program Specific Outcomes (PSOs) of the program. At the college level, the attainment of the POs and PSOs for each program is monitored after every academic year. Thus, implementation of the OBE is ensured. The curriculum is designed through discussions with stakeholders and is placed in the Departmental Academic Affairs Committee for feedback. The curriculum then is put forth to the Board of Studies (BoS) where experts from academia, industry, alumni, and senior faculty members will review the curriculum. The curriculum is then placed for approval by the Academic Council (AC). The curriculum is finally evolved and published.

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

The students are admitted to various programs from different states, with varying ethnicity, gender, culture, location, background, etc. As a result, the institution emphasizes cooperation, mutual respect, and understanding. The courses are designed to make the students worldwide competitive while also considering general regulatory standards, local, regional, and global needs. Additionally, the institution arranges regional language sessions for out-of-state students, exposing them to regional traditional values. The exchange of knowledge on coexistence, culture, language, food, and hobbies among students. Colleges regularly host cultural and sporting activities that allow students to display their traditional values. The NSS has adopted villages to introduce students to a rural environment. The college has an NCC air wing and a Naval wing which enhances the overall personality of students. Students also actively participate in National Integration camps, which bring coherence

and teach them unity.

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

SJEC believes that with the advent of new technology and accessibility to information at the fingertips, the responsibility of an institution has changed tremendously. Educational institutions no longer merely provide information. Their responsibility extends from information transmission to shaping, directing, and developing young minds. Since the inception of the institution, one of the thrust areas of the college is to provide quality education through contemporary Teaching-Learning Practices (TLP). The same is categorically reflected in one of the mission statements of the institution, "Design and deliver curricula to meet the national and global changing needs through student-centric learning methodologies". Ironically, most of the statutory bodies emphasize the need to revamp engineering education and adopt Outcome Based Education (OBE). In this direction, the Management has organized and supported several initiatives to fine-tune the OBE system. It has motivated the faculty to adopt innovative TLP and to report success stories to spread the benefits of OBE. At SJEC, the OBE system has been implemented since 2011. It has been fine-tuned and institutionalized through focused policy formation and training. The NBA Expert Team visited the college on 22nd March 2019 lauded our efforts and encouraged us to go further in this direction. Based on that visit, four of our B.E. Programs have been Re-Accredited by NBA, New Delhi, for a period of three years from July 2019 to June 2022. Moreover, A major step towards this was taken by becoming an active member of the Indo-Universal Collaboration for Engineering Education (IUCEE). The Indo Universal Collaboration for Engineering Education (IUCEE) has recognized SJEC, as a 'Transformational Leader in Engineering Education - 2017' for the holistic implementation and sustainment of OBE.

Various committees such as Industry Alumni Advisory Board (IAAB), Internal Quality Assurance Cell (IQAC), Department Advisory Board (DAB), and Program Assessment Committee (PAC), have been formed by drawing members from Industry, Alumni, Parents, Management, Faculty, Staff and Students. These committees guide and monitor the implementation of OBE in the college.

20.Distance education/online education:

The institution has an ICT infrastructure that enables technology-based teaching and learning practices across all the constituent

units for all its programs. The Wi-Fi-enabled campus, broadband internet access, LAN system, and lecture halls and equipped with LCD projectors, smart classrooms with interactive whiteboards, and projection displays to aid in the online mode of education. The Institution incorporates a studio that generates video content that is accessible to students through a dedicated online portal. Students can access the lecture videos anytime from anywhere, including from hostels and off-campus locations. The videos/lectures can be viewed in their entirety or any selected section for quick reviews and revisions. Students also utilize the services of online e-resources from VTU-Consortium, SHODHGANGA, and e-resources that are in the Central Library. Various online platforms such as Zoom, Canvas, Google Classrooms, etc. are extensively used for online/remote learning. This was particularly useful during the COVID-19 pandemic when the students were off campus.

Extended Profile

1.Programme

1.1 12

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 2686

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 658

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 743

Number of students who appeared for the examinations conducted by the institution during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	View File	
3.Academic		
3.1	12	
Number of courses in all programmes during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	View File	
3.2	155	
Number of full-time teachers during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	View File	
3.3	43	
Number of sanctioned posts for the year:		
4.Institution		
4.1	314	
Number of seats earmarked for reserved categories as per GOI/State Government during the year:		
4.2	59	
Total number of Classrooms and Seminar halls		
4.3	1517	
Total number of computers on campus for academic purposes		
4.4	1753.68	
Total expenditure, excluding salary, during the year (INR in Lakhs):		

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.

Every program's curriculum at the institute is developed, revised, and implemented according to a methodical process that takes into account opportunities and new technologies at the local, regional, national, and international levels.

The curriculum is designed based on NBA specifications to ensure that the students have the required domain knowledge, skills, and attitude referring to the curriculum specified by the affiliating university, AICTE, the Curriculum of reputed Indian and International universities, feedback from stakeholders, and various bodies under autonomy structure.

In the initial phase, the types of courses, the number of electives, the complete details of each course, and its syllabus are framed. In the second phase the Course Outcomes (COs) for every course are mapped with the Program Outcomes (POs) and the Program Specific Outcomes (PSOs) of the program. At the college level, the attainment of the POs and PSOs for each program is monitored after every academic year ensuring implementation of the OBE. After discussion with stakeholders, it is placed in the Departmental Academic Affairs Committee for feedback. Then it is reviewed by the Board of Studies (BoS) comprising of experts from academia, industry, alumni, and senior faculty members. Final approval is taken from the Academic Council (AC).

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	Nil

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

114

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

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

334

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	View File

1.2 - Academic Flexibility

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

334

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

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

114

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

Institute integrates professional ethics, gender, human values, environment, and sustainability into the curriculum.

'Constitution of India and Professional Ethics', is a mandatory course for all second-year UG students. Students will be able to understand the importance of ethics and values in their personal, social, and professional life after studying this course.

The institute has a JAGRUTHI Cell and a Grievance Redressal Cell which promotes gender equity among the students and also deals with the issues related to the safety and security of female students. The college campus is secured with CCTV and high-level security. There are separate Boy's and Girl's hostels inside the college campus.

A course on 'Universal Human Values', is a mandatory course for all second-year UG students. This course sensitizes the student about the scope of life and strengthens self-reflection which develops confidence and commitment to understand, learn and act accordingly.

The issues of Environment and Sustainability are addressed through the course "Environmental Studies" offered to engineering students in the third year. Through this, students are sensitized to environmental issues and provide awareness of sustainable development.

In addition, various activities like quizzes and poster competitions, and invited talks are organized to create awareness of the above issues.

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	No File Uploaded
Any additional information	No File Uploaded

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

8

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

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

330

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

546

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is **B. Any 3 of the above**

obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

File Description	Documents
Provide the URL for stakeholders' feedback report	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

C. Feedback collected and analysed

File Description	Documents
Provide URL for stakeholders' feedback report	Nil
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

870

File Description	Documents
Any additional information	View File
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)

120

File Description	Documents
Any additional information	View File
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.

After enrolment, the institution conducts induction programmes for the students and parents. During the programme, the basics of the system are discussed, along with soliciting the stakeholders' expectations. Moreover, 'Bridge Courses' are conducted to ensure students' synchronization with the system. To monitor and evaluate the students' learning levels the following systems are in place.

A separate First Year Coordinator to overview the enhancing students' learning levels.

A faculty advisor for every class and a mentor for every 15 to 20 students.

Slow Learners: Slow learners are rigorously counselled by mentors and receive feedback regarding their studies and personal issues to enhance their academic performance. Tutorials are conducted for slow learners in the identified subjects. Language laboratory and communication skills classes are conducted to enhance soft skills. Additional Bridge Courses (Lateral Entry) in Mathematics concepts are taught to lateral entry students to help them cope with the subject.

Advanced Learners: To foster advanced learners, department-specific student associations are developed. These associations aid in further development, enhancing leadership qualities and nurturing interpersonal skills. Also, advanced learners are encouraged to participate in symposiums, paper presentations, poster presentations, and quiz contests. They are encouraged to register and participate in events organized by professional bodies.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2022	2686	155

File Description	Documents
Upload any additional information	View File

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: Students are taught content beyond the experiments in the laboratories. Further, 'Virtual Laboratories' have been introduced to clarify the concepts taught in the class. Industrial visits are conducted to students to provide hands-on field experience and update them with the current technology. Students are also encouraged to undergo internships during academic semesters.

Participatory Learning: Every faculty practice active learning methodology to ensure effective dissemination of knowledge. OBE pedagogies such as Cooperative Learning, Collaborative Learning, and Project- and Problem- based Learning are introduced to foster the learning process. In addition, major and mini projects are chosen from social and community requirements.

Problem-Solving Methodologies: The college has introduced the 'Ability Enhancement Courses' across all the first-year UG engineering courses to trigger critical thinking, lifelong learning, and social innovation through identifying social and environmental-related problems, the solution to the same through structured scientific methodologies, and align the solution through modern technology. Moreover, Industry Oriented Training (IOT) and Aptitude training classes are introduced to strengthen the problem-solving ability of the individual student. Moreover,

the institution has set up NAIN (New Age Incubation Network) to support start-ups and regularly conducts 'Ideathon' and 'Hackathon' to foster critical thinking among the students.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

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

During the lockdown, teachers used Google Classroom and the Canvas Platform to communicate knowledge. Also, the Institution purchased the Zoom platform to cater to a larger number of participants and to conduct training activities both for faculty members and students. Moreover, digital tabs have been purchased to teach math-related subjects to the students effectively. The Flipped classroom technique powered by Google Meet, Edpuzzle, Quizizz, Kahoot, Mentimeter, and GeoGebra were used for effective engagement with students. Additionally, Google Suite platforms are used for assessment.

The faculty members' cutting-edge ICT strategies are listed below.

Video-Based Approach: Showing short videos related to the session's topic and ensuring pools are in line with the same to break the monotonous talk and ensure learning.

Flipped Classroom: The faculty share their learning material and homework/assignments with the students through different e-platforms. This enhances productivity and performance in the classroom as the faculty can trigger critical thinking and address complex engineering problems by optimizing the discussion on self-explanatory topics.

Virtual Labs: Virtual discussions on the subjects ensure the "Keep it flowing around" model of pedagogy of engagement.

Blended teaching: Faculty members effectively adopted MOOC with contents related to their subject to leverage the best-in-class knowledge base to reinforce the teaching-learning process.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	Nil
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

150

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

The affiliated University provides an academic calendar for odd and even semesters separately. The College, in turn, prepares a college-level calendar, and each department will put forth a departmental calendar, which is in line with the college calendar to ensure the timely execution of micro-level activities. The academic calendar provides total effective working days in each semester. The college calendar includes a list of examination dates (both CIE and SEE), vacations, holidays, festivals and major college-level activities, etc. The department-level calendar includes additional information such as seminars, conferences, workshops, industrial visits, etc.

Each faculty in the college prepares a teaching plan for each subject at the beginning of every semester. This is recorded in the teacher's Work Diary. This plan serves as a guide to conduct the activities in and outside the classroom for the students. The faculty are required to submit their work diary on a weekly basis to the respective HODs and HODs check the progress of each course in a timely manner and ensure the successful completion of the course.

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

155

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

23

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	View File

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

1336

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

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

15

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	View File

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

0

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	No File Uploaded

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

The institution is using the Examination Management System (EMS) developed by "Contineo". The EMS Module is supported by the "Admission Module" and "Student Information System (SIMS) Module". The Admission Module is used to acquire the student's information as per the requirements and norms. The data acquired in the Admission Module will be imported into SIMS and EMS. Students' attendance and Continuous Internal Assessment entries are made in the SIMS Module by the course coordinator. The data will be imported to EMS after the due approval by the Dean (Academics) and Principal.

The EMS Module has two sub-modules as, Seating Arrangement Module and Exam Instance Module. The Seating Arrangement Module is used for Pre-Exam processes like the generation of examination admit cards for the eligible students and seating arrangements, examination attendance forms as per the room allotments, question

paper indents, etc. The Exam Instance Module is used for post-Exam processes viz, generation of barcodes for answer script coding and packeting, examiner assignment for valuation, result processing, result sheets, result analysis, the printing of grade cards, generation of an eligibility list as per norms, etc.

The SEE results will be published through the Online Result portal.

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

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

Program outcomes are stated and displayed to teachers and students in different ways like posters on corridors, class notice boards, lab manuals, blue books, college websites, and course files.

Similarly, course outcomes are prepared by course coordinators and shared with students in course plans, department notice boards, google classroom, and also during class PPTs of different modules

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	No File Uploaded
Upload any additional information	View File
Link for additional Information	Nil

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

Program outcomes and course outcomes are evaluated by program coordinators, department heads and nominated faculty members during Program Assessment Committee (PAC) meetings held annually.

This is followed by a Department Advisory Board (DAB) meeting where feedback of all the stakeholders like students, alumni, parents, and industry representatives are taken into consideration

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

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

721

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	View File
Paste link for the annual report	Nil

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://drive.google.com/file/d/11nHFxE6iH5RD7NECBDRh8reFy5YS42HQ/view?usp=sharing>

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 is uploaded on the institutional website and implemented

Several research facilities are added every year and made available for both the internal and external faculty. The facilities are extensively used by the faculty and students. To name a few, the following are equipment purchased recently.

1. XILINX ARTEX - 7 FPGA, Evaluation Kit - EK - 47 - AC701 - G Base Board AMS 101 Evaluation Card Xilinx Vivado Design Suite

2. Tubular muffle furnace

3. Ball mill (AIMIL)

4. Pulverizer (AIMIL)

5. Balance Eye Detector, Input 100-240V AC - 50/60 Hz, 2 eye-tracking cameras, Output 5V DC, Windows 10 and higher

6. UV-Visible Spectrophotometer, Microprocessor-based UV-VIS Spectrophotometer with high visibility color touch panel display, for operation on 220V / 50Hz. Lab Solution UV Vis for UV 1900 Included

The institute has implemented 'The SJEC Research Policy' which comprehensively details the obligations, collaborative research, ownership of Intellectual Property Rights, commercialization of research, etc. The policy is published on the college website and made available to faculty and staff in a booklet.

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://sites.google.com/sjec.ac.in/sjecresearch/home
Any additional information	No File Uploaded

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)

11.01

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
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	View File
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

2

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)

49.8745

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	View File

3.2.2 - Number of teachers having research projects during the year

16

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

17

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

5

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

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.

New Age Incubation Network (NAIN)-provides a grant of Rs 3 lakhs/year for each selected novel project from the Govt. of Karnataka. The SJEC Incubation Centre, with a working space of 4000 sq. ft. facility, can simultaneously accommodate up to 15 start-ups. This state-of-the-art facility includes well-furnished seating arrangements, high-configuration computers, independent

high-speed, dedicated internet connection, uninterrupted power backup, and discussion & meeting rooms.

The IPR cell established in collaboration with Karnataka Science Council for Science and Technology (KSCST) helps bring awareness about IPR, enables patent searches, guides inventors in respect of patenting searches, facilitates filing of patents, etc.

The SJEC AICTE IDEA Lab supported by AICTE established in 2021 is aimed at encouraging students to apply Science, Technology, Engineering, and Mathematics towards enhanced hands-on experience, learning by doing, and product visualization. The lab has an area of 5000 sq. ft equipped with advanced machinery and tools to support the translation of an idea to prototype development or solution of a problem.

SJEC has gotten the approval for the implementation of the National Innovation and Start-up Policy (NISIP) by the MoE.

SJEC adopted Research, IPR, and Innovation & Startup policy on Jan 04, 2021, and amendments are done as necessity.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://aicteidealab.sjecblogs.in/ https://sites.google.com/sjec.ac.in/sjecresearch/home

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

14

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

B. Any 3 of the above

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

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	No File Uploaded
Any additional information	View File

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

8

File Description	Documents
URL to the research page on HEI website	https://sites.google.com/sjec.ac.in/sjecresearch/home
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

50

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

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

20

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**

1250

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**

25

File Description	Documents
Bibliometrics 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)**

0

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	No File Uploaded
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

0

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	No File Uploaded
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

AICUF (All India Catholic University Federation): This association is deeply involved in social service through the student community. Also, it instils spirituality among the students. It conducts visits to different primary and high schools, retreat homes, nursing homes, hospitals etc. serves the people and sensitizes the civil culture and responsibility among the students.

NSS and Youth Red Cross: This cell organizes and promotes government initiatives such as Swacch Bharath, Save Water, Abolish Plastics, Tree Plantation, AIDS Awareness campaigns/ programmes/

Rallies, Road Safety week etc. to adapt the graduate attributes such as Engineering and Society, Environment and Sustainability, and Lifelong learning. Moreover, it organizes blood donation camps every year and conducts charity programmes for the neighbourhood.

Every department conducts ESR activities and students are encouraged to take up mini and capstone projects during their course to align their engineering knowledge with society and mankind. Moreover, management arranges events of commemoration and observance of all-important days and occasions, Special technical programmes for the school children, Personality development training activities, Digital literacy campaigns, and Adult Education- Physical, Spiritual and Psychological Counselling for the students. Further, the cultural committee organizes events to pervade cultural and religious diversity.

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

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

7

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)

24

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

583

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

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

116

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

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)

11

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	View File

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 facilities for Teaching - Learning activities, viz., classrooms, laboratories, computing equipment etc.
- The new facilities added during the year 2021-22 have been listed below.
 - Classrooms & Laboratories:

Computer Science & Engineering

- One Laboratory was added (2305/2306)
- An AR-VR Lab was added with the following facilities.
 - Petals Gesture Premium VR PGVR- PM-366 with HD Lens 200 Nos
 - Petals VR Pro PGVR- PRO-133 with Google Pixels Handset 8 Nos
 - Samsung Flip Interactive display with movable flexi stand with Petals AR asset suite Pro
- One additional classroom was also added.

Intelligent Computing & Business Systems

- No of Classrooms: 1 (Room No 3605)
- No of Laboratories: 2 (Labs 3607 and 3608) - with below mentioned computational facilities.
- No of computing facilities (hardware and software):
 - 65 Computers (Intel Core i5 11400 processor, 16 GB DDR4 RAM, 256GB M.2 NVME SSD, 1 TB HDD, Acer 18.5" monitor)
 - ARM7 LPC 2148 trainer kit (Model: VT-2148-4.1) with adaptor - 5 No's (Transferred from CSE Department)
 - DC Motor - 5 No's (Newly bought to ICBS department)
 - Stepper Motor - 5 No's (Newly bought to ICBS department)

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

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

The Physical Education Department has two well-qualified and trained staff to help boys and girls. Apart from this, a Sports Advisory Committee has been established to provide constructive suggestions and monitor the activities. The department provides all the facilities as per the AICTE and VTU norms. A separate multi-gym facility is provided for boys and girls in their hostels. Students, who participate in sports activities or other extracurricular activities, are provided attendance and additional classes on demand so that the time they spared for various activities can be compensated. The Institution provides TA/DA to the players for participation at different sports events. To unveil the talents of the students and staff, annual inter/Intraclass sports meets are organized every year. Moreover, during the college day, the Institution recognizes and provides cash prizes/certificates/mementos, etc., to deserving sportspersons to motivate them to achieve excellence.

The college has a dedicated cultural committee to execute cultural activities at the institute level. A national-level technical Fest "TIARA" is organized every year to provide a platform for the student's performance in extracurricular and co-curricular arenas. College Day, Freshers Day, Farewell program, Onam celebration, and other national festival celebrations provide a forum to showcase the students' talents.

File Description	Documents
Geotagged pictures	No File Uploaded
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

59

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)

455.63

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

4.2 - Library as a Learning Resource

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

Name of the Software: - EASYLIB (Entire Automation System for Libraries)

Nature of Automation: - Fully automated

Version: - 4.4.2

Year of Automation: 2003

1. EASYLIB Library Management System Software has been deployed for automating the entire library operations.

2. Barcode technology is employed for library housekeeping transactions.

EASYLIB stands for Entire Automation System for Libraries is an integrated system with all the necessary modules needed for running a library very professionally and efficiently. It runs on GUI (Graphical User Interface) environment giving ease of data entry and operation. It has a web component that enables to share of library data across the campus. It also has built-in email and web publication support. Library members are able to access library resources through the campus network. As it follows internationally accepted Library Science standards like MARC, AACR2, ISO 2709, Dublin Core, etc. it is easy to interconnect the library with other libraries with Easylib.

The installation of the upgraded 6.4a Cloud Version of the Easylib

Software is under process.

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

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

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)

31.71402

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

133

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

To ensure secured network connectivity and efficient bandwidth management at the central source, both for wired and wireless access, the institution deployed a SonicWALL firewall NSA 460 along with a Ruckus Wi-Fi Controller Ruckus ZD3050. The campus has 1758 computer systems, 119 projectors, 76 Laptops, and 135 printers. All these systems are regularly updated with the latest software updates. 123 Wi-Fi devices have been installed in various locations in the campus and all these devices are controlled from a single location by the Wi-fi controller. The entire campus including Hostels is vigilance through 311 high-definition CCTV cameras via the campus network links and it uses a bulk data storage unit to store the footage of the cameras. CCC is well equipped with backend equipment which includes servers, and bulk data storage units.

The institution has framed an IT Policy that covers the purchase and maintenance aspects of IT facilities. The policy is applicable to all Departments and central facilities. The policy is prepared and operationalized by the CCC.

The annual budget for IT Infrastructure is prepared and submitted by the CCC. Additional requirements sought from the Departments are also considered as a separate component in the Institutional annual budget.

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
2686	1758

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: **A. All four of the above**
Facilities available for e-content development
Media Centre
Audio-Visual Centre
Lecture Capturing System (LCS)
Mixing equipments and software for editing

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)

887.71

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 institution has advisory committees to ensure the effectiveness of each of the supporting facilities. These committees have frequent meetings with the Management to give their feedback to strengthen the system. Apart from these, the Library, Sports, and the CCC have been given the status of departments with entire faculty/staff to address their day-to-day activities.

The institution has the policy of replacing or upgrading the existing equipment to meet the university's syllabus changes from time to time and is tracked through ledgers and stock registers. The utilization reports and the status quo of the departments are brought to the notice of the Management through the Audit.

All the classrooms are as per the norms and equipped with ICT facilities. The classrooms are well-ventilated and furnished. All the classrooms are cleaned every day by the housekeeping staff and supervised by the housekeeper- in-charge. The furniture is well-maintained. The laboratories are also maintained as per the standards set by the statutory bodies. The entire college is Wi-Fi enabled, and the students/staff must register for the facility at the CCC. The Central Library is well-stocked with volumes related to different subjects. Sufficient copies are maintained to cater to the needs of the students and faculty.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

1026

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

907

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

A. All of the above

File Description	Documents
Link to Institutional website	https://sjec.ac.in/training.php
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

629

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	No File Uploaded
Upload any additional information	View File

5.2 - Student Progression

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

382

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

23

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

13

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

25

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

There are 12 committee groups that will help the institution to run smoothly.

They are 1. Culture and Community Group, 2. Library and Learning Group 3. Wellness & Sports Group 4. Discipline and Equity Group 5.

Academics and Assessment Group 6. Professional Societies Group 7. Placement and Training Group 8. Development and Planning Group 9. Research and Facilities Group 10. Industry and Innovation Group 11. Quality and Governance Group 12. Student Welfare Group. In all these committees, student representatives are there. Students are also involved in taking decisions in these committees.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://sjec.ac.in/sjec-college-commitees.php

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

59

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

SJEC is now the Alma Mater to more than 10000 engineers and post-graduates across the globe. The SJEC alumni association strives to

1. Improve the prominence of the SJEC Alumni Association,
2. Elevate Alumni recognition and engagement,
3. Maintain an up-to-date Alumni database, and
4. Build a strong working relationship between the Alumni and the students.

The SJEC has a registered Alumni Association and from offering feedback on courses and curriculum to promoting campus placements,

the SJEC alumni are the off-campus brand ambassadors. The association provides a bridge for the alumni to connect with the students and interact with them. The alumni association hosts REMINISCIA - an annual conclave where alumni who have graduated over the years and are serving in various industry sectors, academia, and government bodies come together to participate in various events, including cultural sports and moderated discussions.

An online portal, alumni.sjec.ac.in offers a platform for the alumni to interact with their peers and maintain a good relationship with the Institution. Along with this, the association can also be contacted via

Email: alumni@sjec.ac.in

LinkedIn: www.linkedin.com/in/alumni-sjec-mangalore

Twitter: www.twitter.com/AlumniSjec

Instagram: [alumni_sjec](https://www.instagram.com/alumni_sjec)

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://alumni.sjec.ac.in/

5.4.2 - Alumni's financial contribution during the year E. <2 Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

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

Vision: 'To be a global premier Institution of professional education and research'

Mission

- Provide opportunities to deserving students of all communities, the Christian students in particular, for quality professional education.
- Design and deliver curricula to meet the national and global changing needs through student- centric learning methodologies.
- Attract, nurture, and retain the best faculty and technical manpower.
- Consolidate the state- of-the- art infrastructure and equipment for teaching and research activities.
- Promote all- round personality development of the students through interaction with alumni, academia, and industry.
- Strengthen the Educational Social Responsibilities of the Institution.

The Institution is managed by the Diocese of Mangalore, known for its service to mankind across the globe. The Governing Board is the chief policy-framing body of the College. The Director of the College is the Secretary of the governing board, which holds meetings at least twice a year and takes all policy decisions for the College. The college trust has appointed a Governing Council to deal with specific policies of the College. The Principal is the Secretary of the Governing Council, which holds regular meetings once every six months to discuss the policies and academic matters of the College mainly.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://sjec.ac.in/about-sjec.php

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

The administration of the College is decentralized, and this responsibility is given to three committees.

Management Committee (MC): It comprises a Director, Assistant Directors, Principal, and HR Manager and conducts a meeting every Wednesday. It has the authority to plan and execute the administrative needs and takes major administrative decisions for the College.

College Council: The College Committee consists of MC members, Deans, and Heads of all the Departments (the Chairman/Coordinators of the College Association & Committees are its special invitees when specific issues related to association activities are to be discussed). It meets at least twice a semester. It shoulders the responsibility of planning academic and other supporting activities.

Department Level Committees, including Hostels: This Committee involves MC members, respective HOD, and the department staff and meets once a month. It is responsible for preparing the department budget, planning manpower requirements, and arranging department-level activities, including academics.

Participative Management

Students are involved in PAC, DAB, and IQAC to solicit ideas and opinions to strengthen the system. Moreover, the alumni, academicians, and industry experts are actively involved in DAB and IQAC to suggest and frame deployment plans to enhance the system.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

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

The Institutional Development Strategies are framed with both top-down and bottom-up approaches by taking feedback from all the stakeholders and are in line with the vision and mission of the College. Moreover, all departmental missions reflect the college mission to ensure the smooth deployment of the strategic plans.

Each committee has well-established roles and responsibilities to

define the purview of every activity. The system was generated to ensure that every committee provides action plans for each academic year and the budget. In addition, every faculty must give an action plan to enhance the department and Institution every year and the same is reviewed and refined for overall development.

Each department performs SWOC analysis, and it is tabled for discussion with the management to frame the strategies. Through the SWOC analysis, the team can utilize their group's strengths, understand their weaknesses, grab opportunities, and overcome threats. Also, Academic and Administrative Audits (AAA) are performed to ascertain the SWOC of the department and facilitate it to fall in line with the college objectives.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	https://sjec.ac.in/sjec-strategic-plan.php
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.

Service Rules

Service rules are prepared and approved by the Governing Board. The procedure of requirements, promotion policy, leave rules, etc., are explained in the service rules. The same is disseminated to all the faculty and staff. Printed books are made available to all the staff of the College. Any changes made to the service rule are made known through circulars.

Procedures

- The Principal organizes the conduct, valuation, and documentation of internal examinations.
- Norms are established for student etiquette, behavior, and campus/hostel discipline.
- The Selection Committee makes an appointment of staff after ascertaining the qualifications, interview, and demonstration lectures.
- Training, probation, and confirmation are generally followed

for selected appointees.

- Financial/Administrative issues are routed through proper channels (HOD & Principal) for approval by the Director.

Policies

- The Governing Board approves all faculty allocations, and the Governing Board ratifies all appointments.
- Appointments are instituted only after due advertisement, interview, and demonstration lectures to ensure fairness and transparency in the selection process.
- The roles of the Director and the Principal in financial, administrative, and academic matters are well-defined.
- Theensures autonomy and administrative ease, and the post of deans are created as and when the need arises.

File Description	Documents
Paste link to Organogram on the institution webpage	Nil
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

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	No File Uploaded

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

Teaching Staff-Medical accidental policy, Transport facility, College accommodation, Crèche facility, Marriage leave, PF, Gratuity & Maternity benefits, Dispensary, Earned Leave encashment facility, financial support to attend FDPs, workshops, etc. Incentive schemes for quality research publications and research grants for research projects, deputation to pursue higher studies, etc.

Non-Teaching Staff: Medical accidental policy, College accommodation, Crèche facility, PF, ESI, Gratuity & Maternity benefits, Dispensary, Earned Leave encashment facility, Financial support to attend workshops, seminars, etc., Loan facility (Welfare Fund).

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

34

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

17

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

64

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	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Every financial year, budget proposals are prepared by the Finance Committee and submitted to the GB for consideration and approval. The Management notifies all the departments at the end of the financial year to prepare budgets for their respective departments. The departments get involved in budget preparation and pre-budget exercises to ensure adequate funds for each department. Institutional requirements such as facilities, equipment, consumables, services, faculty and staff need, etc., are included in the budget. Non-budgeted/ Unforeseen expenditures are met out of the allotted institutional budget. If any, additional expenditures are sanctioned during the college development meetings held from time to time. The College borrows funds whenever the capital expenditure overshoots due to cost escalation and other similar reasons.

Internal

All the Collections are verified daily and maintained transparency

in the process. Budget proposals, Payments of bills and vouchers, and supporting documents of every event and the entire financial year are scrutinized by the Internal Financial Committee, which may advise the concerned departments on any possible improvement.

External

Every year, Government-recognized Chartered Accountants audit the accounts and prepare a balance sheet under the Income Tax Act. Also, audited statements are made available via the college website.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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)

49.01

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

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

The main source of income for the College is in the form of tuition fees and charity. The Institution treats each department as a separate cost center and all expenses incurred as debits. Each department prepares the budgets before the new financial year, and the Management/Financial Committee reviews the same. If any anomaly is noticed, the concerned bill is approved by the Management after explanation or justification. This helps to avoid unnecessary purchases and optimal utilization of the available resources. The tuition fees are maintained in the current account and used towards the salary and maintenance of the College.

The Alumni Association is requested to contribute monetarily to the development of the system through various activities. The College also generates funds for R&D through sponsored research projects from government and non-governmental agencies. In addition, a small amount is also generated through consultancy projects. For maintaining transport and hostel facilities, a separate fee is collected.

Since the Institution is a charitable organization, the Management provides funds through its sources or avails loans from banks whenever there is a shortage of funds.

File Description	Documents
Upload any additional information	No File Uploaded
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)

The IQAC was established on 16th November 2018. Before this, the Institute Alumni Advisory Board (IAAB) and the Accreditation Cell initiated and sustained quality assurance activities. Presently, the IQAC has been revised as per the regulations put forth by NAAC.

The Cell has contributed significantly to creating a healthy/favorable learner-centric environment for quality professional education by adopting the OBE philosophy since 2011. It has been fine-tuned and institutionalized through focused policy formation and training. At the end of every semester, IQAC conducts FDPs related to quality assurance, accreditation, and OBE under various themes to ensure continual quality improvement in the system.

To guide and monitor the implementation of OBE in the College, various committees such as DAB, and PAC have been formed by attracting members from the Industry, Alumni, Parents, Management, Faculty, Staff, and Students.

To strengthen and sustain the quality initiatives, Cell has framed Standard Operating Procedures (SOP) at every level of the organization. Further, it has developed quality metrics for internal AAA by synchronizing the requirements of both the NBA and NAAC and the institutional mission. Further, it ensures documentation of all the committees as per the standard format prescribed by the Institution.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://sjec.ac.in/iqac.php

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

At the end of every semester, IQAC conducts FDPs/Workshops/Seminars/Activities to adopt new engagement pedagogies and ensure continual improvement in the teaching-learning process. The programmes discuss accreditation, teaching-learning, course design, harnessing technology in teaching, course web page development, engineering education research, etc. Further, the Cell facilitates implementing these programmes' learning in the coming semester with a structured post-implementation analysis. Moreover, IQAC proposes to the management to send the faculty to engineering education conferences, workshops, seminars, certification programmes, etc.

The course files are designed based on Deming's Plan-Do-Check-Act Cycle to ensure continual improvements in the system for the sustainment of quality initiatives. Further, extreme care is taken to confirm COs and TLOs as per Bloom's Taxonomy through a well-framed checklist. Moreover, the Cell ensures that all departments develop, verify, and share course plans with the stakeholders before the commencement of the semester. In addition, it facilitates scientifically mapping the COs to POs with proper justification, identifying the right assessment tools and Balancing the Course-PO matrix of the programme. Apart from this, it aids in determining the right strategy to enhance the attainment of POs through PAC, DAB, and IQAC meetings by documenting the action plans categorically and following them up structurally.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://sjec.ac.in/igac-obe-at-sjec.php

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

B. Any 3 of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://sites.google.com/sjec.ac.in/sjec-accrreditation/accrreditation-status?authuser=0
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

1. Safety and Security: The Institution considers 'Safety and Security as paramount to the system. Thus, it has invested all its available resources to safeguard its stakeholders within the Campus. Some of the major initiatives are 24x7 CCTV surveillance across the Campus, including college corridors, classrooms, enough security guards, highly intensive illumination at all prominent places, full-time hostel wardens, etc.

2. Counselling: The counselling service at SJEC is a part of the

academic activity. The Management has appointed a qualified Campus Counsellor. The College has adopted the following counselling mechanism: General Counselling: The College identifies a few staff members as mentors and a training programme is held during the semester vacation. Behavioural Counselling: The Campus Counsellor takes care of students with behavioural problems.

3. Common Room: Separate and well-maintained washrooms are provided on every floor of the buildings for boys and girls. Different common rooms are provided for boys and girls to meet their rest and personal requirements. In addition, separate common rooms are provided in the workshops/machine shops to cater to the needs of the students.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy conservation: 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	View File

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)

Solid waste management

Solid wastes are disposed of through a private agency. Further, dustbins are kept in all prominent places to ensure cleanliness and hygiene. The housekeeping staff collects the waste from the bins every day. The workers properly segregate all these solid wastes, and external agencies dispose of them according to statutory regulations.

Liquid waste management

Liquid waste from different sources such as canteen, toilets, hostels, etc., are segregated and let out through a common drainage facility to a centralized sewage water treatment tank at the corner of the campus. The treated water is used for gardening and flushing. This helps to maintain and improve the groundwater level.

E-waste management

Following policies are adopted for e-waste management:

- **Reduce the utilization of e-materials:** By providing high-speed Wi-Fi throughout the College to help reduce the utilization of computers in College/Central facilities.
- **Reuse e-materials:** By donating old workable electronic items to the needy. These can be reused after slight modifications to the original functioning equipment. Apart from this, e-materials are donated to the Tinkering Lab to explore learning opportunities.
- **Recycle e-waste:** If both above strategies are not feasible, then the e-waste is disposed of as per the regulations of the statutory bodies.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	No File Uploaded
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:

A. Any 4 or All of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
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	No File Uploaded
Any other relevant documents	No File Uploaded

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:

B. Any 3 of the above

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions/awards
5. Beyond the campus environmental promotional activities

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	View File

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, 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.

A. Any 4 or all of the above

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

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).

NSS and Youth Red Cross: This cell organizes and promotes government initiatives such as Swacch Bharath, Save Water, Abolish Plastics, Tree Plantation, AIDS Awareness campaigns/ programmes/ Rallies, Road Safety week etc. to adapt the graduate attributes such as Engineering and Society, Environment and Sustainability, and Lifelong learning. Moreover, it organizes blood donation camps

every year and conducts charity programmes for the neighbourhood. Every department conducts ESR activities and students are encouraged to take up mini and capstone projects during their course to align their engineering knowledge along with society and mankind. Moreover, management arranges events of commemoration and observance of all-important days and occasions, Special technical programmes for the school children, Personality development training activities, Digital literacy campaigns, and Adult Education- Physical, Spiritual and Psychological Counselling for the students. Further, the cultural committee organizes events to pervade cultural and religious diversity.

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:

The college conducts value education classes for every newly joined student. In the class, we cover very important areas Aspirations and Concerns, Peer pressure, Reverence for excellence, Gratitude and love, and the Foundation of Relationship- Trust. Other than this, eminent speakers will give talks on health and hygiene, psychological aspects, and adolescence. Also, faculties are encouraged to complete the Universal Human Values course offered by AICTE.

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 C. Any 2 of the above

organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

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 College organizes several national, religious, and state-level festivals to commemorate the contribution of national leaders and to instill patriotism among the stakeholders. It organizes Republic Day, Independence Day, Teachers' Day, Karnataka Rajyothsava, Engineer's Day, Onam, Moharam, and Nativity festivals to ensure unity in diversity. It practices a pluralistic approach towards all religious functions and encourages the students and faculty to showcase the same. Death anniversaries of persons of national importance are marked by paying homage and recalling their contribution to the nation. Special prayers are arranged on all these occasions in the college chapel to honor the leaders by paying tributes to them.

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 1: Innovative Teaching Learning Practices to address learning diversity among the students. The objective of this practice is to improve the learning experience and to address learning diversity. These underlying principles lie in implementing Outcome Based Education (OBE) and Active Learning techniques. OBE is a student-centric teaching and learning methodology in which the instruction delivery and assessment are planned to achieve based on stated objectives and outcomes. Active learning is an approach to instruction that involves actively engaging students with the course material through discussions, problem-solving, case studies, role plays, and other methods.

Best Practice 2: Industrial visit to identify the latest technology used in the industry and bridge the gap between industry and academics. Industrial visits have their own importance in the career of a student who is pursuing a professional degree. It is considered a part of the college curriculum. The objective of the industrial visit is to provide students with an insight into the internal working of the companies. Theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, industrial visits provide students with a practical perspective on the world of work.

File Description	Documents
Best practices in the Institutional website	https://sjec.ac.in/naac.php
Any other relevant information	Nil

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)

- Inculcating innovative pedagogy among faculty for OBE. More specifically, structured deployment of Bloom's Taxonomy in implementing the OBE.
- Every department has come up with the Teaching-Learning Process (TLP) documents to strengthen the OBE system.
- The research strategy covers all the major academic disciplines. Faculty and students are actively involved in research in key areas of Science, Technology, and

Management. The research is clearly visible in terms of wide publications and various projects securing grants from external agencies.

- A Teaching-Learning Centre (TLC) has been established to bring new pedagogies of engagement and assist the faculty members in the OBE deployment process.
- St Joseph Engineering College has been selected as one of the 49 Institutions from across India, and one among the five colleges in Karnataka, to be selected by the All India Council for Technical Education (AICTE) for the establishment of AICTE Idea, development, evaluation, and application (IDEA) lab. The lab is aimed at encouraging students to apply science, technology, engineering, and mathematics (STEM) fundamentals towards enhanced hands-on experience, learning by doing, and product visualization. The lab will make engineering students more imaginative and creative, in addition to imbibing skills of critical thinking, problem-solving, design thinking, collaboration, communication, and lifelong learning.

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.

Every program's curriculum at the institute is developed, revised, and implemented according to a methodical process that takes into account opportunities and new technologies at the local, regional, national, and international levels.

The curriculum is designed based on NBA specifications to ensure that the students have the required domain knowledge, skills, and attitude referring to the curriculum specified by the affiliating university, AICTE, the Curriculum of reputed Indian and International universities, feedback from stakeholders, and various bodies under autonomy structure.

In the initial phase, the types of courses, the number of electives, the complete details of each course, and its syllabus are framed. In the second phase the Course Outcomes (COs) for every course are mapped with the Program Outcomes (POs) and the Program Specific Outcomes (PSOs) of the program. At the college level, the attainment of the POs and PSOs for each program is monitored after every academic year ensuring implementation of the OBE. After discussion with stakeholders, it is placed in the Departmental Academic Affairs Committee for feedback. Then it is reviewed by the Board of Studies (BoS) comprising of experts from academia, industry, alumni, and senior faculty members. Final approval is taken from the Academic Council (AC).

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	Nil

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

114

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

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

334

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	View File

1.2 - Academic Flexibility

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

334

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

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

114

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

Institute integrates professional ethics, gender, human values, environment, and sustainability into the curriculum.

'Constitution of India and Professional Ethics', is a mandatory course for all second-year UG students. Students will be able to understand the importance of ethics and values in their personal, social, and professional life after studying this course.

The institute has a JAGRUTHI Cell and a Grievance Redressal Cell which promotes gender equity among the students and also deals with the issues related to the safety and security of female students. The college campus is secured with CCTV and high-level security. There are separate Boy's and Girl's hostels inside the college campus.

A course on 'Universal Human Values', is a mandatory course for all second-year UG students. This course sensitizes the student about the scope of life and strengthens self-reflection which develops confidence and commitment to understand, learn and act accordingly.

The issues of Environment and Sustainability are addressed through the course "Environmental Studies" offered to engineering students in the third year. Through this, students are sensitized to environmental issues and provide awareness of sustainable development.

In addition, various activities like quizzes and poster competitions, and invited talks are organized to create awareness of the above issues.

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	No File Uploaded
Any additional information	No File Uploaded

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

8

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

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

330

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

546

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

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	B. Any 3 of the above
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File Description	Documents
Provide the URL for stakeholders' feedback report	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following	C. Feedback collected and analysed
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File Description	Documents
Provide URL for stakeholders' feedback report	Nil
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

870

File Description	Documents
Any additional information	View File
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)

120

File Description	Documents
Any additional information	View File
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.

After enrolment, the institution conducts induction programmes for the students and parents. During the programme, the basics of the system are discussed, along with soliciting the stakeholders' expectations. Moreover, 'Bridge Courses' are conducted to ensure students' synchronization with the system. To monitor and evaluate the students' learning levels the following systems are in place.

A separate First Year Coordinator to overview the enhancing students' learning levels.

A faculty advisor for every class and a mentor for every 15 to 20 students.

Slow Learners: Slow learners are rigorously counselled by mentors and receive feedback regarding their studies and personal issues to enhance their academic performance. Tutorials are conducted for slow learners in the identified subjects. Language laboratory and communication skills classes are conducted to enhance soft skills. Additional Bridge Courses (Lateral Entry) in Mathematics concepts are taught to lateral entry students to help them cope with the subject.

Advanced Learners: To foster advanced learners, department-specific student associations are developed. These associations aid in further development, enhancing leadership qualities and nurturing interpersonal skills. Also, advanced learners are encouraged to participate in symposiums, paper presentations, poster presentations, and quiz contests. They are encouraged to register and participate in events organized by professional bodies.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2022	2686	155

File Description	Documents
Upload any additional information	View File

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: Students are taught content beyond the experiments in the laboratories. Further, 'Virtual Laboratories' have been introduced to clarify the concepts taught in the class. Industrial visits are conducted to students to provide hands-on field experience and update them with the current technology. Students are also encouraged to undergo internships during academic semesters.

Participatory Learning: Every faculty practice active learning methodology to ensure effective dissemination of knowledge. OBE pedagogies such as Cooperative Learning, Collaborative Learning, and Project- and Problem- based Learning are introduced to foster the learning process. In addition, major and mini projects are chosen from social and community requirements.

Problem-Solving Methodologies: The college has introduced the 'Ability Enhancement Courses' across all the first-year UG engineering courses to trigger critical thinking, lifelong learning, and social innovation through identifying social and environmental-related problems, the solution to the same through structured scientific methodologies, and align the solution through modern technology. Moreover, Industry Oriented Training (IOT) and Aptitude training classes are introduced to

strengthen the problem-solving ability of the individual student. Moreover, the institution has set up NAIN (New Age Incubation Network) to support start-ups and regularly conducts 'Ideathon' and 'Hackathon' to foster critical thinking among the students.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

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

During the lockdown, teachers used Google Classroom and the Canvas Platform to communicate knowledge. Also, the Institution purchased the Zoom platform to cater to a larger number of participants and to conduct training activities both for faculty members and students. Moreover, digital tabs have been purchased to teach math-related subjects to the students effectively. The Flipped classroom technique powered by Google Meet, Edpuzzle, Quizizz, Kahoot, Mentimeter, and GeoGebra were used for effective engagement with students. Additionally, Google Suite platforms are used for assessment.

The faculty members' cutting-edge ICT strategies are listed below.

Video-Based Approach: Showing short videos related to the session's topic and ensuring pools are in line with the same to break the monotonous talk and ensure learning.

Flipped Classroom: The faculty share their learning material and homework/assignments with the students through different e-platforms. This enhances productivity and performance in the classroom as the faculty can trigger critical thinking and address complex engineering problems by optimizing the discussion on self-explanatory topics.

Virtual Labs: Virtual discussions on the subjects ensure the "Keep it flowing around" model of pedagogy of engagement.

Blended teaching: Faculty members effectively adopted MOOC with contents related to their subject to leverage the best-in-class

knowledge base to reinforce the teaching-learning process.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	Nil
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

150

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

The affiliated University provides an academic calendar for odd and even semesters separately. The College, in turn, prepares a college-level calendar, and each department will put forth a departmental calendar, which is in line with the college calendar to ensure the timely execution of micro-level activities. The academic calendar provides total effective working days in each semester. The college calendar includes a list of examination dates (both CIE and SEE), vacations, holidays, festivals and major college-level activities, etc. The department-level calendar includes additional information such as seminars, conferences, workshops, industrial visits, etc.

Each faculty in the college prepares a teaching plan for each subject at the beginning of every semester. This is recorded in the teacher's Work Diary. This plan serves as a guide to conduct the activities in and outside the classroom for the students. The faculty are required to submit their work diary on a weekly basis to the respective HODs and HODs check the progress of each course in a timely manner and ensure the

successful completion of the course.

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

155

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

23

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	View File

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

1336

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

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

15

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	View File

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

0

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	No File Uploaded

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

The institution is using the Examination Management System (EMS) developed by "Contineo". The EMS Module is supported by the "Admission Module" and "Student Information System (SIMS) Module". The Admission Module is used to acquire the student's information as per the requirements and norms. The data acquired in the Admission Module will be imported into SIMS and EMS. Students' attendance and Continuous Internal Assessment entries are made in the SIMS Module by the course coordinator.

The data will be imported to EMS after the due approval by the Dean (Academics) and Principal.

The EMS Module has two sub-modules as, Seating Arrangement Module and Exam Instance Module. The Seating Arrangement Module is used for Pre-Exam processes like the generation of examination admit cards for the eligible students and seating arrangements, examination attendance forms as per the room allotments, question paper indents, etc. The Exam Instance Module is used for post-Exam processes viz, generation of barcodes for answer script coding and packeting, examiner assignment for valuation, result processing, result sheets, result analysis, the printing of grade cards, generation of an eligibility list as per norms, etc.

The SEE results will be published through the Online Result portal.

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

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

Program outcomes are stated and displayed to teachers and students in different ways like posters on corridors, class notice boards, lab manuals, blue books, college websites, and course files.

Similarly, course outcomes are prepared by course coordinators and shared with students in course plans, department notice boards, google classroom, and also during class PPTs of different modules

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	No File Uploaded
Upload any additional information	View File
Link for additional Information	Nil

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

Program outcomes and course outcomes are evaluated by program coordinators, department heads and nominated faculty members during Program Assessment Committee (PAC) meetings held annually.

This is followed by a Department Advisory Board (DAB) meeting where feedback of all the stakeholders like students, alumni, parents, and industry representatives are taken into consideration

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

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

721

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	View File
Paste link for the annual report	Nil

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://drive.google.com/file/d/1lnHFxE6iH5RD7NECBDRh8reFy5YS42HO/view?usp=sharing>

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 is uploaded on the institutional website and implemented

Several research facilities are added every year and made available for both the internal and external faculty. The facilities are extensively used by the faculty and students. To name a few, the following are equipment purchased recently.

1. XILINX ARTEX - 7 FPGA, Evaluation Kit - EK - 47 - AC701 - G Base Board AMS 101 Evaluation Card Xilinx Vivado Design Suite
2. Tubular muffle furnace
3. Ball mill (AIMIL)
4. Pulverizer (AIMIL)
5. Balance Eye Detector, Input 100-240V AC - 50/60 Hz, 2 eye-tracking cameras, Output 5V DC, Windows 10 and higher
6. UV-Visible Spectrophotometer, Microprocessor-based UV-VIS Spectrophotometer with high visibility color touch panel display, for operation on 220V / 50Hz. Lab Solution UV Vis for UV 1900 Included

The institute has implemented 'The SJEC Research Policy' which comprehensively details the obligations, collaborative research, ownership of Intellectual Property Rights, commercialization of research, etc. The policy is published on the college website and made available to faculty and staff in a booklet.

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://sites.google.com/sjec.ac.in/sjecresearch/home
Any additional information	No File Uploaded

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)

11.01

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
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	View File
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

2

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)

49.8745

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	View File

3.2.2 - Number of teachers having research projects during the year

16

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

17

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

5

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

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.

New Age Incubation Network (NAIN)-provides a grant of Rs 3 lakhs/year for each selected novel project from the Govt. of Karnataka. The SJEC Incubation Centre, with a working space of 4000 sq. ft. facility, can simultaneously accommodate up to 15 start-ups. This state-of-the-art facility includes well-furnished seating arrangements, high-configuration computers, independent high-speed, dedicated internet connection, uninterrupted power backup, and discussion & meeting rooms.

The IPR cell established in collaboration with Karnataka Science Council for Science and Technology (KSCST) helps bring awareness about IPR, enables patent searches, guides inventors in respect of patenting searches, facilitates filing of patents, etc.

The SJEC AICTE IDEA Lab supported by AICTE established in 2021 is aimed at encouraging students to apply Science, Technology, Engineering, and Mathematics towards enhanced hands-on experience, learning by doing, and product visualization. The

lab has an area of 5000 sq. ft equipped with advanced machinery and tools to support the translation of an idea to prototype development or solution of a problem.

SJEC has gotten the approval for the implementation of the National Innovation and Start-up Policy (NISIP) by the MoE.

SJEC adopted Research, IPR, and Innovation & Startup policy on Jan 04, 2021, and amendments are done as necessity.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://aicteidealab.sjecblogs.in/ https://sites.google.com/sjec.ac.in/sjecresearch/home

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

14

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

B. Any 3 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	No File Uploaded
Any additional information	View File

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

8

File Description	Documents
URL to the research page on HEI website	https://sites.google.com/sjec.ac.in/sjecresearch/home
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

50

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

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

20

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

1250

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

25

File Description	Documents
Bibliometrics 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)

0

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	No File Uploaded
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

0

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	No File Uploaded
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

AICUF (All India Catholic University Federation): This association is deeply involved in social service through the student community. Also, it instils spirituality among the students. It conducts visits to different primary and high schools, retreat homes, nursing homes, hospitals etc. serves the people and sensitizes the civil culture and responsibility among the students.

NSS and Youth Red Cross: This cell organizes and promotes government initiatives such as Swacch Bharath, Save Water,

Abolish Plastics, Tree Plantation, AIDS Awareness campaigns/ programmes/ Rallies, Road Safety week etc. to adapt the graduate attributes such as Engineering and Society, Environment and Sustainability, and Lifelong learning. Moreover, it organizes blood donation camps every year and conducts charity programmes for the neighbourhood.

Every department conducts ESR activities and students are encouraged to take up mini and capstone projects during their course to align their engineering knowledge with society and mankind. Moreover, management arranges events of commemoration and observance of all-important days and occasions, special technical programmes for the school children, Personality development training activities, Digital literacy campaigns, and Adult Education- Physical, Spiritual and Psychological Counselling for the students. Further, the cultural committee organizes events to pervade cultural and religious diversity.

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

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

7

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)

24

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

583

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

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

116

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

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)

11

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	View File

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 facilities for Teaching - Learning activities, viz., classrooms, laboratories, computing equipment etc.
- The new facilities added during the year 2021-22 have been listed below.
 - Classrooms & Laboratories:

Computer Science & Engineering

- One Laboratory was added (2305/2306)
- An AR-VR Lab was added with the following facilities.
 - Petals Gesture Premium VR PGVR- PM-366 with HD Lens 200 Nos
 - Petals VR Pro PGVR- PRO-133 with Google Pixels Handset 8 Nos
 - Samsung Flip Interactive display with movable flexi stand with Petals AR asset suite Pro
- One additional classroom was also added.

Intelligent Computing & Business Systems

- No of Classrooms: 1 (Room No 3605)
- No of Laboratories: 2 (Labs 3607 and 3608) - with below mentioned computational facilities.
- No of computing facilities (hardware and software):
 - 65 Computers (Intel Core i5 11400 processor, 16 GB DDR4 RAM, 256GB M.2 NVME SSD, 1 TB HDD, Acer 18.5" monitor)
 - ARM7 LPC 2148 trainer kit (Model: VT-2148-4.1) with adaptor - 5 No's (Transferred from CSE Department)
 - DC Motor - 5 No's (Newly bought to ICBS department)
 - Stepper Motor - 5 No's (Newly bought to ICBS department)

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

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

The Physical Education Department has two well-qualified and trained staff to help boys and girls. Apart from this, a Sports Advisory Committee has been established to provide constructive suggestions and monitor the activities. The department provides all the facilities as per the AICTE and VTU norms. A separate multi-gym facility is provided for boys and girls in their hostels. Students, who participate in sports activities or other extracurricular activities, are provided attendance and additional classes on demand so that the time they spared for various activities can be compensated. The Institution provides TA/DA to the players for participation at different sports events. To unveil the talents of the students and staff, annual inter/Intraclass sports meets are organized every year. Moreover, during the college day, the Institution recognizes and provides cash prizes/certificates/mementos, etc., to deserving sportspersons to motivate them to achieve excellence.

The college has a dedicated cultural committee to execute cultural activities at the institute level. A national-level technical Fest "TIARA" is organized every year to provide a platform for the student's performance in extracurricular and co-curricular arenas. College Day, Freshers Day, Farewell program, Onam celebration, and other national festival celebrations provide a forum to showcase the students' talents.

File Description	Documents
Geotagged pictures	No File Uploaded
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

59

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)

455.63

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

4.2 - Library as a Learning Resource

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

Name of the Software: - EASYLIB (Entire Automation System for Libraries)

Nature of Automation: - Fully automated

Version: - 4.4.2

Year of Automation: 2003

1. EASYLIB Library Management System Software has been deployed for automating the entire library operations.

2. Barcode technology is employed for library housekeeping transactions.

EASYLIB stands for Entire Automation System for Libraries is an integrated system with all the necessary modules needed for running a library very professionally and efficiently. It runs on GUI (Graphical User Interface) environment giving ease of data entry and operation. It has a web component that enables

to share of library data across the campus. It also has built-in email and web publication support. Library members are able to access library resources through the campus network. As it follows internationally accepted Library Science standards like MARC, AACR2, ISO 2709, Dublin Core, etc. it is easy to interconnect the library with other libraries with Easylib.

The installation of the upgraded 6.4a Cloud Version of the Easylib Software is under process.

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

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)

31.71402

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

133

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

To ensure secured network connectivity and efficient bandwidth management at the central source, both for wired and wireless access, the institution deployed a SonicWALL firewall NSA 460 along with a Ruckus Wi-Fi Controller Ruckus ZD3050. The campus has 1758 computer systems, 119 projectors, 76 Laptops, and 135 printers. All these systems are regularly updated with the latest software updates. 123 Wi-Fi devices have been installed in various locations in the campus and all these devices are controlled from a single location by the Wi-fi controller. The entire campus including Hostels is vigilance through 311 high-definition CCTV cameras via the campus network links and it uses a bulk data storage unit to store the footage of the cameras. CCC is well equipped with backend equipment which includes servers, and bulk data storage units.

The institution has framed an IT Policy that covers the purchase and maintenance aspects of IT facilities. The policy is applicable to all Departments and central facilities. The policy is prepared and operationalized by the CCC.

The annual budget for IT Infrastructure is prepared and submitted by the CCC. Additional requirements sought from the Departments are also considered as a separate component in the Institutional annual budget.

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
2686	1758
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. 250 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)	
887.71	

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 institution has advisory committees to ensure the effectiveness of each of the supporting facilities. These committees have frequent meetings with the Management to give their feedback to strengthen the system. Apart from these, the Library, Sports, and the CCC have been given the status of departments with entire faculty/staff to address their day-to-day activities.

The institution has the policy of replacing or upgrading the existing equipment to meet the university's syllabus changes from time to time and is tracked through ledgers and stock registers. The utilization reports and the status quo of the departments are brought to the notice of the Management through the Audit.

All the classrooms are as per the norms and equipped with ICT facilities. The classrooms are well-ventilated and furnished. All the classrooms are cleaned every day by the housekeeping staff and supervised by the housekeeper- in-charge. The furniture is well-maintained. The laboratories are also maintained as per the standards set by the statutory bodies. The entire college is Wi-Fi enabled, and the students/staff must register for the facility at the CCC. The Central Library is well-stocked with volumes related to different subjects. Sufficient copies are maintained to cater to the needs of the students and faculty.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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	
1026	
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	
907	
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 students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	A. All of the above
File Description	Documents
Link to Institutional website	https://sjec.ac.in/training.php
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	
629	

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	No File Uploaded
Upload any additional information	View File

5.2 - Student Progression

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

382

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

23

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**

13

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**

25

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

There are 12 committee groups that will help the institution to run smoothly.

They are 1. Culture and Community Group, 2. Library and Learning

Group 3. Wellness & Sports Group 4. Discipline and Equity Group 5. Academics and Assessment Group 6. Professional Societies Group 7. Placement and Training Group 8. Development and Planning Group 9. Research and Facilities Group 10. Industry and Innovation Group 11. Quality and Governance Group 12. Student Welfare Group. In all these committees, student representatives are there. Students are also involved in taking decisions in these committees.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://sjec.ac.in/sjec-college-commitees.php

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

59

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

SJEC is now the Alma Mater to more than 10000 engineers and post-graduates across the globe. The SJEC alumni association strives to

1. Improve the prominence of the SJEC Alumni Association,
2. Elevate Alumni recognition and engagement,
3. Maintain an up-to-date Alumni database, and
4. Build a strong working relationship between the Alumni and the students.

The SJEC has a registered Alumni Association and from offering feedback on courses and curriculum to promoting campus placements, the SJEC alumni are the off-campus brand ambassadors. The association provides a bridge for the alumni to connect with the students and interact with them. The alumni association hosts REMINISCIA - an annual conclave where alumni who have graduated over the years and are serving in various industry sectors, academia, and government bodies come together to participate in various events, including cultural sports and moderated discussions.

An online portal, alumni.sjec.ac.in offers a platform for the alumni to interact with their peers and maintain a good relationship with the Institution. Along with this, the association can also be contacted via

Email: alumni@sjec.ac.in

LinkedIn: www.linkedin.com/in/alumni-sjec-mangalore

Twitter: www.twitter.com/AlumniSjec

Instagram: [alumni_sjec](https://www.instagram.com/alumni_sjec)

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://alumni.sjec.ac.in/

5.4.2 - Alumni's financial contribution during the year	E. <2 Lakhs
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File Description	Documents
Upload any additional information	No File Uploaded

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

Vision: 'To be a global premier Institution of professional education and research'

Mission

- Provide opportunities to deserving students of all communities, the Christian students in particular, for quality professional education.
- Design and deliver curricula to meet the national and global changing needs through student- centric learning methodologies.
- Attract, nurture, and retain the best faculty and technical manpower.
- Consolidate the state- of-the- art infrastructure and equipment for teaching and research activities.
- Promote all- round personality development of the students through interaction with alumni, academia, and industry.
- Strengthen the Educational Social Responsibilities of the Institution.

The Institution is managed by the Diocese of Mangalore, known for its service to mankind across the globe. The Governing Board is the chief policy-framing body of the College. The Director of the College is the Secretary of the governing board, which holds meetings at least twice a year and takes all policy decisions for the College. The college trust has appointed a Governing Council to deal with specific policies of the College. The Principal is the Secretary of the Governing Council, which holds regular meetings once every six months to discuss the policies and academic matters of the College mainly.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://sjec.ac.in/about-sjec.php

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

The administration of the College is decentralized, and this responsibility is given to three committees.

Management Committee (MC): It comprises a Director, Assistant Directors, Principal, and HR Manager and conducts a meeting

every Wednesday. It has the authority to plan and execute the administrative needs and takes major administrative decisions for the College.

College Council: The College Committee consists of MC members, Deans, and Heads of all the Departments (the Chairman/Coordinators of the College Association & Committees are its special invitees when specific issues related to association activities are to be discussed). It meets at least twice a semester. It shoulders the responsibility of planning academic and other supporting activities.

Department Level Committees, including Hostels: This Committee involves MC members, respective HOD, and the department staff and meets once a month. It is responsible for preparing the department budget, planning manpower requirements, and arranging department-level activities, including academics.

Participative Management

Students are involved in PAC, DAB, and IQAC to solicit ideas and opinions to strengthen the system. Moreover, the alumni, academicians, and industry experts are actively involved in DAB and IQAC to suggest and frame deployment plans to enhance the system.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

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

The Institutional Development Strategies are framed with both top-down and bottom-up approaches by taking feedback from all

the stakeholders and are in line with the vision and mission of the College. Moreover, all departmental missions reflect the college mission to ensure the smooth deployment of the strategic plans.

Each committee has well-established roles and responsibilities to define the purview of every activity. The system was generated to ensure that every committee provides action plans for each academic year and the budget. In addition, every faculty must give an action plan to enhance the department and Institution every year and the same is reviewed and refined for overall development.

Each department performs SWOC analysis, and it is tabled for discussion with the management to frame the strategies. Through the SWOC analysis, the team can utilize their group's strengths, understand their weaknesses, grab opportunities, and overcome threats. Also, Academic and Administrative Audits (AAA) are performed to ascertain the SWOC of the department and facilitate it to fall in line with the college objectives.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	https://sjec.ac.in/sjec-strategic-plan.php
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.

Service Rules

Service rules are prepared and approved by the Governing Board. The procedure of requirements, promotion policy, leave rules, etc., are explained in the service rules. The same is disseminated to all the faculty and staff. Printed books are made available to all the staff of the College. Any changes made to the service rule are made known through circulars.

Procedures

- The Principal organizes the conduct, valuation, and documentation of internal examinations.
- Norms are established for student etiquette, behavior, and campus/hostel discipline.
- The Selection Committee makes an appointment of staff after ascertaining the qualifications, interview, and demonstration lectures.
- Training, probation, and confirmation are generally followed for selected appointees.
- Financial/Administrative issues are routed through proper channels (HOD & Principal) for approval by the Director.

Policies

- The Governing Board approves all faculty allocations, and the Governing Board ratifies all appointments.
- Appointments are instituted only after due advertisement, interview, and demonstration lectures to ensure fairness and transparency in the selection process.
- The roles of the Director and the Principal in financial, administrative, and academic matters are well-defined.
- Theensures autonomy and administrative ease, and the post of deans are created as and when the need arises.

File Description	Documents
Paste link to Organogram on the institution webpage	Nil
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

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	No File Uploaded

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

Teaching Staff-Medical accidental policy, Transport facility, College accommodation, Crèche facility, Marriage leave, PF, Gratuity & Maternity benefits, Dispensary, Earned Leave encashment facility, financial support to attend FDPs, workshops, etc. Incentive schemes for quality research publications and research grants for research projects, deputation to pursue higher studies, etc.

Non-Teaching Staff: Medical accidental policy, College accommodation, Crèche facility, PF, ESI, Gratuity & Maternity benefits, Dispensary, Earned Leave encashment facility, Financial support to attend workshops, seminars, etc., Loan facility (Welfare Fund).

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

34

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

17

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

64

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	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Every financial year, budget proposals are prepared by the Finance Committee and submitted to the GB for consideration and approval. The Management notifies all the departments at the end of the financial year to prepare budgets for their

respective departments. The departments get involved in budget preparation and pre-budget exercises to ensure adequate funds for each department. Institutional requirements such as facilities, equipment, consumables, services, faculty and staff need, etc., are included in the budget. Non-budgeted/ Unforeseen expenditures are met out of the allotted institutional budget. If any, additional expenditures are sanctioned during the college development meetings held from time to time. The College borrows funds whenever the capital expenditure overshoots due to cost escalation and other similar reasons.

Internal

All the Collections are verified daily and maintained transparency in the process. Budget proposals, Payments of bills and vouchers, and supporting documents of every event and the entire financial year are scrutinized by the Internal Financial Committee, which may advise the concerned departments on any possible improvement.

External

Every year, Government-recognized Chartered Accountants audit the accounts and prepare a balance sheet under the Income Tax Act. Also, audited statements are made available via the college website.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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)

49.01

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

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

The main source of income for the College is in the form of tuition fees and charity. The Institution treats each department as a separate cost center and all expenses incurred as debits. Each department prepares the budgets before the new financial year, and the Management/Financial Committee reviews the same. If any anomaly is noticed, the concerned bill is approved by the Management after explanation or justification. This helps to avoid unnecessary purchases and optimal utilization of the available resources. The tuition fees are maintained in the current account and used towards the salary and maintenance of the College.

The Alumni Association is requested to contribute monetarily to the development of the system through various activities. The College also generates funds for R&D through sponsored research projects from government and non-governmental agencies. In addition, a small amount is also generated through consultancy projects. For maintaining transport and hostel facilities, a separate fee is collected.

Since the Institution is a charitable organization, the Management provides funds through its sources or avails loans from banks whenever there is a shortage of funds.

File Description	Documents
Upload any additional information	No File Uploaded
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)

The IQAC was established on 16th November 2018. Before this, the Institute Alumni Advisory Board (IAAB) and the Accreditation Cell initiated and sustained quality assurance activities. Presently, the IQAC has been revised as per the regulations put forth by NAAC.

The Cell has contributed significantly to creating a healthy/favorable learner-centric environment for quality professional education by adopting the OBE philosophy since 2011. It has been fine-tuned and institutionalized through focused policy formation and training. At the end of every semester, IQAC conducts FDPs related to quality assurance, accreditation, and OBE under various themes to ensure continual quality improvement in the system.

To guide and monitor the implementation of OBE in the College, various committees such as DAB, and PAC have been formed by attracting members from the Industry, Alumni, Parents, Management, Faculty, Staff, and Students.

To strengthen and sustain the quality initiatives, Cell has framed Standard Operating Procedures (SOP) at every level of the organization. Further, it has developed quality metrics for internal AAA by synchronizing the requirements of both the NBA and NAAC and the institutional mission. Further, it ensures documentation of all the committees as per the standard format prescribed by the Institution.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://sjec.ac.in/iqac.php

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

At the end of every semester, IQAC conducts FDPs/Workshops/Seminars/Activities to adopt new engagement pedagogies and ensure continual improvement in the teaching-learning process. The programmes discuss accreditation, teaching-learning, course design, harnessing technology in

teaching, course web page development, engineering education research, etc. Further, the Cell facilitates implementing these programmes' learning in the coming semester with a structured post-implementation analysis. Moreover, IQAC proposes to the management to send the faculty to engineering education conferences, workshops, seminars, certification programmes, etc.

The course files are designed based on Deming's Plan-Do-Check-Act Cycle to ensure continual improvements in the system for the sustainment of quality initiatives. Further, extreme care is taken to confirm COs and TLOs as per Bloom's Taxonomy through a well-framed checklist. Moreover, the Cell ensures that all departments develop, verify, and share course plans with the stakeholders before the commencement of the semester. In addition, it facilitates scientifically mapping the COs to POs with proper justification, identifying the right assessment tools and Balancing the Course-PO matrix of the programme. Apart from this, it aids in determining the right strategy to enhance the attainment of POs through PAC, DAB, and IQAC meetings by documenting the action plans categorically and following them up structurally.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://sjec.ac.in/iqac-obe-at-sjec.php

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

B. Any 3 of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://sites.google.com/sjec.ac.in/sjec-accreditation/accreditation-status?authuser=0
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

1. **Safety and Security:** The Institution considers 'Safety and Security' as paramount to the system. Thus, it has invested all its available resources to safeguard its stakeholders within the Campus. Some of the major initiatives are 24x7 CCTV surveillance across the Campus, including college corridors, classrooms, enough security guards, highly intensive illumination at all prominent places, full-time hostel wardens, etc.

2. **Counselling:** The counselling service at SJEC is a part of the academic activity. The Management has appointed a qualified Campus Counsellor. The College has adopted the following counselling mechanism: **General Counselling:** The College identifies a few staff members as mentors and a training programme is held during the semester vacation. **Behavioural Counselling:** The Campus Counsellor takes care of students with behavioural problems.

3. **Common Room:** Separate and well-maintained washrooms are provided on every floor of the buildings for boys and girls. Different common rooms are provided for boys and girls to meet their rest and personal requirements. In addition, separate common rooms are provided in the workshops/machine shops to cater to the needs of the students.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

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	View File

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)

Solid waste management

Solid wastes are disposed of through a private agency. Further, dustbins are kept in all prominent places to ensure cleanliness and hygiene. The housekeeping staff collects the waste from the bins every day. The workers properly segregate all these solid wastes, and external agencies dispose of them according to statutory regulations.

Liquid waste management

Liquid waste from different sources such as canteen, toilets, hostels, etc., are segregated and let out through a common drainage facility to a centralized sewage water treatment tank at the corner of the campus. The treated water is used for gardening and flushing. This helps to maintain and improve the groundwater level.

E-waste management

Following policies are adopted for e-waste management:

- **Reduce the utilization of e-materials:** By providing high-speed Wi-Fi throughout the College to help reduce the utilization of computers in College/Central facilities.
- **Reuse e-materials:** By donating old workable electronic items to the needy. These can be reused after slight modifications to the original functioning equipment. Apart from this, e-materials are donated to the Tinkering Lab to explore learning opportunities.
- **Recycle e-waste:** If both above strategies are not feasible, then the e-waste is disposed of as per the regulations of the statutory bodies.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	No File Uploaded
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**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**

A. Any 4 or All of the above

5. Landscaping	
File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded
7.1.6 - Quality audits on environment and energy undertaken by the institution	
<p>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities 	B. Any 3 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	View File
<p>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, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-</p>	A. Any 4 or all of the above

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	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

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).

NSS and Youth Red Cross: This cell organizes and promotes government initiatives such as Swacch Bharath, Save Water, Abolish Plastics, Tree Plantation, AIDS Awareness campaigns/ programmes/ Rallies, Road Safety week etc. to adapt the graduate attributes such as Engineering and Society, Environment and Sustainability, and Lifelong learning. Moreover, it organizes blood donation camps every year and conducts charity programmes for the neighbourhood. Every department conducts ESR activities and students are encouraged to take up mini and capstone projects during their course to align their engineering knowledge along with society and mankind. Moreover, management arranges events of commemoration and observance of all-important days and occasions, Special technical programmes for the school children, Personality development training activities, Digital literacy campaigns, and Adult Education- Physical, Spiritual and Psychological Counselling for the students. Further, the cultural committee organizes events to pervade cultural and religious diversity.

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:

The college conducts value education classes for every newly joined student. In the class, we cover very important areas Aspirations and Concerns, Peer pressure, Reverence for excellence, Gratitude and love, and the Foundation of Relationship- Trust. Other than this, eminent speakers will give talks on health and hygiene, psychological aspects, and adolescence. Also, faculties are encouraged to complete the Universal Human Values course offered by AICTE.

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

C. Any 2 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 College organizes several national, religious, and state-level festivals to commemorate the contribution of national leaders and to instill patriotism among the stakeholders. It organizes Republic Day, Independence Day, Teachers' Day, Karnataka Rajyothsava, Engineer's Day, Onam, Moharam, and Nativity festivals to ensure unity in diversity. It practices a pluralistic approach towards all religious functions and encourages the students and faculty to showcase the same. Death anniversaries of persons of national importance are marked by paying homage and recalling their contribution to the nation. Special prayers are arranged on all these occasions in the college chapel to honor the leaders by paying tributes to them.

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 1: Innovative Teaching Learning Practices to address learning diversity among the students. The objective of this practice is to improve the learning experience and to

address learning diversity. These underlying principles lie in implementing Outcome Based Education (OBE) and Active Learning techniques. OBE is a student-centric teaching and learning methodology in which the instruction delivery and assessment are planned to achieve based on stated objectives and outcomes. Active learning is an approach to instruction that involves actively engaging students with the course material through discussions, problem-solving, case studies, role plays, and other methods.

Best Practice 2: Industrial visit to identify the latest technology used in the industry and bridge the gap between industry and academics. Industrial visits have their own importance in the career of a student who is pursuing a professional degree. It is considered a part of the college curriculum. The objective of the industrial visit is to provide students with an insight into the internal working of the companies. Theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, industrial visits provide students with a practical perspective on the world of work.

File Description	Documents
Best practices in the Institutional website	https://sjec.ac.in/naac.php
Any other relevant information	Nil

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)

- Inculcating innovative pedagogy among faculty for OBE. More specifically, structured deployment of Bloom's Taxonomy in implementing the OBE.
- Every department has come up with the Teaching-Learning Process (TLP) documents to strengthen the OBE system.
- The research strategy covers all the major academic disciplines. Faculty and students are actively involved in research in key areas of Science, Technology, and Management. The research is clearly visible in terms of wide publications and various projects securing grants from external agencies.
- A Teaching-Learning Centre (TLC) has been established to

bring new pedagogies of engagement and assist the faculty members in the OBE deployment process.

- St Joseph Engineering College has been selected as one of the 49 Institutions from across India, and one among the five colleges in Karnataka, to be selected by the All India Council for Technical Education (AICTE) for the establishment of AICTE Idea, development, evaluation, and application (IDEA) lab. The lab is aimed at encouraging students to apply science, technology, engineering, and mathematics (STEM) fundamentals towards enhanced hands-on experience, learning by doing, and product visualization. The lab will make engineering students more imaginative and creative, in addition to imbibing skills of critical thinking, problem-solving, design thinking, collaboration, communication, and lifelong learning.

File Description	Documents
Appropriate link in the institutional website	Nil
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

- Deployment of Institution Development Pla (IDP) as per NEP 2020.
- Obtain NBA accreditation for the MCA program.
- Obtain ISO certification.
- Generate intellectual property through research.
- Encourage Startups by identifying promising ideas through Tech Hackathons, and provide state-of-the-art makers space and incubation facilities.
- Strengthen Industry-Institution interaction through Industrial training programs.
- To encourage entrepreneurship and social innovation among the students
- Upgrade more than 30% of faculty qualifications to PhD level
- Provide consultancy services in the fields of Mechanical and Civil Engineering
- Enter MOU with Institutions of national importance like IIT, NIT, IIIT, and other research and development organizations in the country.
- Spur community engagement through developmental projects in adopted villages.