



## **YEARLY STATUS REPORT - 2022-2023**

### **Part A**

#### **Data of the Institution**

<b>1.Name of the Institution</b>	<b>Fr.Conceicao Rodrigues College of Engineering</b>
• Name of the Head of the institution	<b>Dr.Surendra Singh Rathod</b>
• Designation	<b>Principal</b>
• Does the institution function from its own campus?	<b>Yes</b>
• Phone no./Alternate phone no.	<b>02267114101</b>
• Mobile no	<b>9920228275</b>
• Registered e-mail	<b>crce@frcrce.ac.in</b>
• Alternate e-mail	<b>surve@frcrce.ac.in</b>
• Address	<b>Fr.Conceicao Rodrigues college of Engineering Fr.Agnel Ashram, Bandstand, Bandra(w)</b>
• City/Town	<b>Mumbai</b>
• State/UT	<b>Maharashtra</b>
• Pin Code	<b>400050</b>
<b>2.Institutional status</b>	
• Affiliated /Constituent	<b>University of Mumbai</b>
• Type of Institution	<b>Co-education</b>
• Location	<b>Urban</b>

- Financial Status **Self-financing**

- Name of the Affiliating University **University of Mumbai**
- Name of the IQAC Coordinator **Dr. Sunil Surve**
- Phone No. **912267114313**
- Alternate phone No.
- Mobile **9167635546**
- IQAC e-mail address **iqac@frcrce.ac.in**
- Alternate Email address **pshah@fragnel.edu.in**

**3. Website address (Web link of the AQAR (Previous Academic Year)**

<https://frcrce.ac.in/index.php/academics/naac/naac-re-assessment?download=1318:ssr-2022-23>

**4. Whether Academic Calendar prepared during the year?**

- if yes, whether it is uploaded in the Institutional website Web link: <https://frcrce.ac.in/images/crce/pdfs/AcdCal-2022-23.pdf>

**5. Accreditation Details**

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A</b>	<b>3.18</b>	<b>2023</b>	<b>02/06/2023</b>	<b>01/06/2028</b>

**6. Date of Establishment of IQAC **10/01/2017****

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

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

**8. Whether composition of IQAC as per latest NAAC guidelines **Yes****

- Upload latest notification of formation of IQAC [View File](#)

**9.No. of IQAC meetings held during the year**      **2**

- Were the minutes of IQAC meeting(s) and **Yes** compliance to the decisions have been uploaded on the institutional website?
  
- If No, please upload the minutes of the meeting(s) and Action Taken Report      No File Uploaded

**10.Whether IQAC received funding from any of the 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)**

Conduct of the Academic Audit for the AY 2021-22 of all the departments

Streamlining the final year project assessment process across the departments

Streamlining the Progress Seminar schedule for PhD research scholars in the institute

Formulating an effective scrap policy for periodic scrap disposal from laboratories/ workshops, etc

Facilitating infrastructure planning and upgradation across the various departments

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

Plan of Action	Achievements/Outcomes
To ensure that the feedback of the Academic audit is incorporated in the Teaching-Learning process	All faculty members have ensured that the changes have been made as per the suggestions thus improving the OBE process
To conduct a well-planned upgradation of laboratories	Equipment/ Computers were procured in a planned manner to improve the laboratory experience of the students
To procure interactive boards in all the classrooms which will enable teachers to use effective tools	Interactive boards have been added in all the classrooms
To ensure a collaborative system across departments for multi-disciplinary projects	Several projects were taken up with students from different disciplines

**13.Whether the AQAR was placed before statutory body?**

No

- Name of the statutory body

Name	Date of meeting(s)
Nil	Nil

**14.Whether institutional data submitted to AISHE**

## Part A

### Data of the Institution

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• Name of the Head of the institution	<b>Dr.Surendra Singh Rathod</b>
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<b>4. Whether Academic Calendar prepared during the year?</b>	Yes						
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://frcrce.ac.in/images/crce/pdfs/AcdCal-2022-23.pdf">https://frcrce.ac.in/images/crce/pdfs/AcdCal-2022-23.pdf</a>						
<b>5. Accreditation Details</b>							
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to		
Cycle 1	A	3.18	2023	02/06/2023	01/06/2028		
<b>6. Date of Establishment of IQAC</b>		10/01/2017					
<b>7. Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,</b>							
Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount			
Nil	Nil	Nil	Nil	Nil			
<b>8. Whether composition of IQAC as per latest NAAC guidelines</b>		Yes					
• Upload latest notification of formation of IQAC		<a href="#">View File</a>					
<b>9. No. of IQAC meetings held during the year</b>		2					
• Were the minutes of IQAC meeting(s)		Yes					

and compliance to the decisions have been uploaded on the institutional website?	
<ul style="list-style-type: none"> <li>• If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded
<b>10.Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	<b>No</b>
<ul style="list-style-type: none"> <li>• If yes, mention the amount</li> </ul>	
<b>11.Significant contributions made by IQAC during the current year (maximum five bullets)</b>	
<p>Conduct of the Academic Audit for the AY 2021-22 of all the departments</p>	
<p>Streamlining the final year project assessment process across the departments</p>	
<p>Streamlining the Progress Seminar schedule for PhD research scholars in the institute</p>	
<p>Formulating an effective scrap policy for periodic scrap disposal from laboratories/ workshops, etc</p>	
<p>Facilitating infrastructure planning and upgradation across the various departments</p>	
<b>12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year</b>	

Plan of Action	Achievements/Outcomes
To ensure that the feedback of the Academic audit is incorporated in the Teaching-Learning process	All faculty members have ensured that the changes have been made as per the suggestions thus improving the OBE process
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To procure interactive boards in all the classrooms which will enable teachers to use effective tools	Interactive boards have been added in all the classrooms
To ensure a collaborative system across departments for multi-disciplinary projects	Several projects were taken up with students from different disciplines

**13.Whether the AQAR was placed before statutory body?**

- Name of the statutory body

Name	Date of meeting(s)
Nil	Nil

**14.Whether institutional data submitted to AISHE**

Year	Date of Submission
2022-2023	12/02/2024

**15.Multidisciplinary / interdisciplinary**

As the Institute is affiliated to the University of Mumbai, it adheres to the academic norms as well as syllabus prescribed by the University. The Institute is keen on applying for Autonomy status and plans to offer a multi-disciplinary flexible curriculum. Honour's and Minor degree programs are offered from third year to encourage learning in specialised domains. Courses/Electives are included to educate students with soft skills and increase awareness towards environmental issues and ethics. With

a continuous interaction with industries, students are encouraged to design solutions and conduct research on real-world problem statements. One of the best practices followed is that student teams work on projects which require a mix of domain knowledge.

#### **16.Academic bank of credits (ABC):**

The University of Mumbai has joined Academic Bank of Credits (ABC), which aims to promote curriculum adaptability and provide students the freedom to study as they choose. Fr. CRCE is ready to join Academic Bank of Credits (ABC). University of Mumbai has started this process for university-owned departments, and the institution must wait for its approval, which is expected soon. To join ABC, Institute is moving toward autonomy. The Institute's pedagogy is student-centric and faculty members use different methods. The University syllabus drafting committee members include many Institute teachers. Teachers can construct novel assignments and evaluation techniques under University of Mumbai syllabus framework.

#### **17.Skill development:**

The UGC, AICTE, approved Institute meets NSQF eligibility requirements. Mumbai University is designing vocational and skill-based programmes that Institutes will accept after approval. All interested individuals can take courses in vocational education and skills, such as NC/CNC programming, CAD/CAM, and other areas. Many teachers have completed the Universal Human Value Course by AICTE to help inculcate a moral character in students. The credit structure is set up for skill-based labs like Python programming, Cloud Computing. Workers from IOCL Ltd were given vocational training at Fr.CRCE.

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

The Institute uses English as its primary language of instruction in accordance with University norms. However, the Institute consistently supports our traditions and culture. The college magazine "Fragmag" provides a venue for Marathi and Hindi in addition to the English section. Students can connect with our culture and develop a respect for our tradition by taking part in the cultural event "Euphoria". The local language, Marathi, is the mother tongue of many faculty; making them eligible to teach courses in it.

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

Fr. CRCE has adopted Outcome Based Education(OBE) in 2016 which focuses on measuring student performance through outcomes. Course Outcomes (CO), Program Outcomes(PO) and Program Specific Outcomes(PSO) are evaluated to measure the knowledge, skills and behaviour of students. The departments have developed the curriculum taking all the POs into consideration and assuring that the curriculum strongly maps to all the POs and the PSOs. The COs for a course are measured by following the assessment plan prepared by the course coordinator at the beginning of the semester. At the beginning of the academic year, the attainment levels are defined by the PAC and deliberated at DAB. The proposals are sent for approval by IQAC.

## **20.Distance education/online education:**

The Institute has effectively adopted Online education. Faculty and students are acquainted with Google Meet, Google Classroom, Moodle and Zoom. The majority of the classrooms are equipped with overhead projectors, allowing teachers to switch between projections and chalk-and-board as needed. The library has Internet-connected computers where students can access digital materials including Journals, NPTEL Courses, and EBooks. The Institute is also registered as a SWAYAM-NPTEL Local Chapter. The Institute has the knowledge and resources to provide online distance training in emerging trends in engineering.

### **Extended Profile**

#### **1.Programme**

1.1	269
Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	<a href="#">View File</a>

#### **2.Student**

2.1	1329
Number of students during the year	

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.2		<b>123</b>
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year		
File Description	Documents	
Data Template		<a href="#">View File</a>
2.3		<b>325</b>
Number of outgoing/ final year students during the year		
File Description	Documents	
Data Template		<a href="#">View File</a>
<b>3.Academic</b>		
3.1		<b>64</b>
Number of full time teachers during the year		
File Description	Documents	
Data Template		<a href="#">View File</a>
3.2		<b>65</b>
Number of sanctioned posts during the year		
File Description	Documents	
Data Template		<a href="#">View File</a>
<b>4.Institution</b>		
4.1		<b>24</b>
Total number of Classrooms and Seminar halls		
4.2		<b>582.09</b>
Total expenditure excluding salary during the year (INR in lakhs)		
4.3		<b>586</b>
Total number of computers on campus for academic purposes		

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

##### Planning:

1. Internal Quality Assessment Committee(IQAC) drafts broad guidelines for curriculum implementation.
2. Academic activities are planned and monitored by Departmental Quality Advisory Committee(DQAC) for effective curriculum delivery.
3. Institute-Department Academic Calendar and Time table is prepared.
4. The Lesson Plan consisting of Course Outcomes(COs), CO-PO-PSOMappings, Targets, Tools, Curriculum Gaps and Lecture/Lab Plan is prepared by faculty and reviewed by DQAC. It is uploaded on the web site for reference.

##### Curriculum Delivery:

1. Regular classroom teaching is supplemented with teaching learning tools. Learning Management System(MOODLE) is used by faculty and students.
2. Class teachers and HODs monitor regular academic activities along with the IQAC.

##### Monitoring Effectiveness of learning:

1. Internal Assessment tests, Mid Term Project assessments are conducted. Advanced and slow learners are identified and necessary actions are taken.
2. Term work assessment is based on continuous evaluation of student performance in laboratory/tutorials and assignments.

**Feedback:**

1. Mid-term, End-term feedback, Course Exit Survey is collected.
2. Academic Audit is conducted to evaluate the curriculum delivery on parameters like Course plan, Teaching-learning methods, Rubrics, Experiments, tools, COAttainment
3. Departmental Advisory Board(DAB) meeting is conducted that evaluates the department performance and recommends steps for improvements.
4. Observations are used for continuous improvement.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/144-01-curricular-aspects?download=1183:1-1-1-2022-23-effective-curriculum-delivery-through-well-planned-and-documented-process">https://frcrce.ac.in/index.php/crce-downloads/category/144-01-curricular-aspects?download=1183:1-1-1-2022-23-effective-curriculum-delivery-through-well-planned-and-documented-process</a>
1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)	
<p>The Institute-level Academic Calendar is prepared in the beginning of academic year based on academic calendar provided by University. It is shared with everyone via email and also available on college web site. This calendar includes schedule for academic activities and schedule for various institute-level curricular and co-curricular activities such as</p> <ul style="list-style-type: none"><li>• Term commencement</li><li>• Faculty meetings</li><li>• Timelines for academic activities related to attendance, unit tests, term work</li></ul>	

- Cultural, Sports and technical events
- Conferences and Seminars
- Practical and Oral examination schedule

Further, department refines the academic calendar by adding timelines and schedules for various department-level activities and events such as :

- Lesson plan and CO submission
- Schedule for final year project work
- Faculty Development Programs(FDPs)
- Industrial Visits
- Submission Dates
- Co-curricular Activities-related event dates.
- Department Meetings for review of course completion and any other academic and

administration related matters.

Faculty members and students are reminded about these activities through circulars, notices, meetings on timely basis and are particular about effective compliance of the Academic Calendar.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/144-01-curricular-aspects?download=1214:1-1-2-2022-23-adherence-to-the-academic-calendar-including-for-the-conduct-of-continuous-internal-evaluation">https://frcrce.ac.in/index.php/crce-downloads/category/144-01-curricular-aspects?download=1214:1-1-2-2022-23-adherence-to-the-academic-calendar-including-for-the-conduct-of-continuous-internal-evaluation</a>

**1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the**

**B. Any 3 of the above**

**following academic bodies during the year.**  
**Academic council/BoS of Affiliating**  
**University Setting of question papers for**  
**UG/PG programs Design and Development**  
**of Curriculum for Add on/ certificate/**  
**Diploma Courses Assessment /evaluation**  
**process of the affiliating University**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## **1.2 - Academic Flexibility**

### **1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented**

#### **1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented**

**4**

File Description	Documents
Any additional information	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	<b>No File Uploaded</b>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

### **1.2.2 - Number of Add on /Certificate programs offered during the year**

#### **1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)**

**0**

File Description	Documents
Any additional information	<b>No File Uploaded</b>
Brochure or any other document relating to Add on /Certificate programs	<b>No File Uploaded</b>
List of Add on /Certificate programs (Data Template )	<b>No File Uploaded</b>

### **1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year**

**0**

File Description	Documents
Any additional information	<b>No File Uploaded</b>
Details of the students enrolled in Subjects related to certificate/Add-on programs	<b>No File Uploaded</b>

### **1.3 - Curriculum Enrichment**

#### **1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

**In response to the evolving landscape of cutting-edge technologies, including environmental ethics, human values, sustainable development, and others, our college has taken an additional initiative to bridge this gap. This initiative is being achieved through the organization of various events conducted by clubs such as NSS, WIE, Rotaract, etc., contributing to a more comprehensive and holistic educational experience**

**Students are offered courses on professional ethics to insist on social, moral, and ethical values among them. Courses like Project Management, Professional Ethics and CSR are introduced to develop the right attitude among the students. Activities like My story - the motivational talk, Software Freedom, Breaking-the-Binary and Code-o-fiesta to name a few.**

**The Environmental Science and Engineering course is introduced in all programmes to inculcate the understanding of the economic, environmental and social needs and the protection of the environment In addition to this, donation drives are conducted to develop environment awareness among the students.**

The institute is committed to the principle of gender equality by providing both genders with equal opportunities for growth and development and an integrated and interdisciplinary approach to understand the social and cultural structure of gender that outlines the knowledge of women and men in society is promoted.

File Description	Documents
Any additional information	<b>No File Uploaded</b>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View File</a>

#### **1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year**

**21**

File Description	Documents
Any additional information	<a href="#">View File</a>
Programme / Curriculum/ Syllabus of the courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<b>No File Uploaded</b>
MoU's with relevant organizations for these courses, if any	<b>No File Uploaded</b>
Institutional Data in Prescribed Format	<a href="#">View File</a>

#### **1.3.3 - Number of students undertaking project work/field work/ internships**

**147**

File Description	Documents
Any additional information	<a href="#">View File</a>
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

#### 1.4 - Feedback System

<b>1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni</b>	<b>B. Any 3 of the above</b>
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File Description	Documents
URL for stakeholder feedback report	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/144-01-curricular-aspects?download=1253:1-4-1-2022-23-stakeholder-feedback-analysis-graduate-exit-survey-and-alumni-survey">https://frcrce.ac.in/index.php/crce-downloads/category/144-01-curricular-aspects?download=1253:1-4-1-2022-23-stakeholder-feedback-analysis-graduate-exit-survey-and-alumni-survey</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

<b>1.4.2 - Feedback process of the Institution may be classified as follows</b>	<b>A. Feedback collected, analyzed and action taken and feedback available on website</b>
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File Description	Documents
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/144-01-curricular-aspects?download=1254:1-4-2-feedback-process-of-the-institution">https://frcrce.ac.in/index.php/crce-downloads/category/144-01-curricular-aspects?download=1254:1-4-2-feedback-process-of-the-institution</a>

#### TEACHING-LEARNING AND EVALUATION

## **2.1 - Student Enrollment and Profile**

### **2.1.1 - Enrolment Number Number of students admitted during the year**

#### **2.1.1.1 - Number of students admitted during the year**

**353**

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

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

#### **2.1.2.1 - Number of actual students admitted from the reserved categories during the year**

**147**

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## **2.2 - Catering to Student Diversity**

### **2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners**

**The Institute has a mechanism which continuously monitors and evaluates the students. The participation of the students in class room discussions, performance in class tests, online quiz, Moodle courses, assignments, class room seminars, mini projects and feedbacks measure their learning abilities. These measures help to track of slow and advanced learners in the class.**

**Advanced learners are motivated to strive for higher goals. They are provided with additional inputs for better career planning and growth like:**

- 1. Motivating them to involve in research projects to inculcate research orientation and practical awareness.**
- 2. Encourage students to enrol for NPTEL and online courses to gain extra practical knowledge to meet the requirements of**

- current industry trends.
3. Helping them to publish their work in Conferences/Journals and patents collaboratively.
  4. Encouraged to participate in technical teams, project competitions, hackathon (Such as SIH, coding competitions etc)

Individual teachers help the slow learners by giving proper guidance and support to the learners viz.

1. Slow learners are specially advised and counselled by a Mentor and the subject expert.
2. Remedial classes are conducted for the weaker students based on the results of class tests and attendance.

File Description	Documents
Paste link for additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/145-02-teaching-learning-and-evaluation?download=1226:2-2-1-programs-for-advanced-and-slow-learners">https://frcrce.ac.in/index.php/crce-downloads/category/145-02-teaching-learning-and-evaluation?download=1226:2-2-1-programs-for-advanced-and-slow-learners</a>
Upload any additional information	No File Uploaded

## 2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
1326	64

File Description	Documents
Any additional information	<a href="#">View File</a>

## 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

**Student centric methods:** Student-centric teaching methods are utilized to expand learning scope, blending blackboard teaching with various teaching and learning methodologies. Experiential learning:

**Project based learning:** Mini Project and Major Projects: Students

get an opportunity to work on real time projects, which enhances their testing and designing skills. Activity based learning: The faculty adopts active Teaching learning methods like: a) Debates, group discussions, skits/role play, movies b) Model making c) Technical Paper discussion . d) Educational Games Field based learning: Field-based learning, such as industrial internships and Industrial visits, provides students with hands-on experience in industry projects where they develop their software, hardware design and implementation skills . Participative learning: Cooperative learning: Students collaborate on think-pair-share, poster presentation activities to enhance their own and each other's learning. Paper presentation and publication: Students enhance their writing, communication, and presentation skills by publishing papers in prestigious journals and conferences.

3) Problem solving methodologies: Problem based learning: Students engage in inter-disciplinary project development activities, such as AbuRobocon, SAE Aero Modelling, Formula Racing, Go-Karting, Building Drones, e- yantra, Smart India Hackathon, and Start-up Promotion competition Yukti which gives them an opportunity to test their skills to find solutions to complex and challenging engineering problems

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	Nil

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Information and Communication Technology (ICT) tools play a crucial role in enhancing the teaching and learning experience in engineering subjects. Following are the ICT tools used:

- a) **Simulation Software:** Simulation software allows students to model and analyse engineering systems in a virtual environment eg:Proteus
- b) **CAD software:** CAD software enables students to create detailed and accurate engineering designs. eg:SOLID WORKS
- c) **Virtual Lab:** Virtual labs provide a digital platform for students to conduct experiments and gain practical experience in a controlled online environment, especially useful when physical labs are not accessible eg:NPTEL virtual Labs
- d) **Multimedia Presentation:** Multimedia Tools like presentations ,animations and videos enhances the delivery of complex engineering problems in more interactive way.eg:Microsoft PPT, YouTube NPTEL videos incorporated in the PPT

e) Learning Management systems :LMS platform facilitates the organisation and delivery of course materials, assignments, assessments .eg:Moodle ,Google classroom. f) Programming Platforms: Online coding Platforms like Google Colab is widely used for coding. g) Digital Libraries :Access to Digital Libraries like IEEE Xplore provides students access to Research Papers which benefits them in their Project implementation. h) Interactive whiteboards: Promotes dynamic Presentations and allows the Teacher to display the course content in more interactive way. eg:Smart Board

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View File</a>

### **2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year )**

#### **2.3.3.1 - Number of mentors**

**64**

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	<a href="#">View File</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View File</a>
Mentor/mentee ratio	<a href="#">View File</a>

### **2.4 - Teacher Profile and Quality**

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

**64**

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

**2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)**

**2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year**

**20**

File Description	Documents
Any additional information	<a href="#">View File</a>
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	<a href="#">View File</a>

**2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)**

**2.4.3.1 - Total experience of full-time teachers**

**978**

File Description	Documents
Any additional information	<b>No File Uploaded</b>
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

**2.5 - Evaluation Process and Reforms**

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The Institute follows the Mumbai University guidelines for the internal assessment of the theory and laboratory courses. Complete transparency is maintained in all forms of internal evaluations. Two Unit tests are planned in the academic calendar and accordingly conducted during each Semester; one in the middle of the term and one at the end of the term. The assessed test papers are shown to the students and the grievances are addressed if any. The term work is graded based on the performance of the students in the laboratories as well as in the tutorial sessions and/or assignments. The laboratory sessions/tutorials/assignments are assessed on a weekly basis on the basis of predefined rubrics. The progress of the mini project and final year projects is reviewed and evaluated twice in a semester. The marks awarded during these evaluations are displayed on the notice board and considered for the final evaluation at the end of the semester.

Additionally, the PG students present a research paper mentioned in the syllabus or any other topic on the latest development in technology in the field related to the course. The presentations are assessed and the marks are conveyed to the students.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	Nil

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time-bound and efficient

**The End Semester Examination results are displayed on the notice board. Students can apply for a photocopy/reverification/revaluation of answer sheets within seven days after the result is declared and the result of reverification/revaluation is declared within 1 month.**

The examination department posts a notification inviting students to request photocopy/reverification/revaluation of their answer sheets in case of any grievance in scored marks. Revaluation papers are reviewed by external evaluators, ensuring impartiality and to avoid any conflict-of-interest external evaluators are different from the moderators or evaluators of the initial assessment for the same subject. Once the revaluation assessments for all subjects across various branches are completed, the examination cell compiles and shares the revaluation results with Mumbai University. The university releases the revaluation results

to the students.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	Nil

## 2.6 - Student Performance and Learning Outcomes

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

The institute follows the OBE and each department under the guidance of IQAC(Institute Quality Assurance Committee) along with different stake holders like industry experts, research academicians and alumni formulate the POs and PSOs. The teachers prepare lesson plans and articulate the Course Outcomes (COs) as per the syllabus and map those to the PSOs and POs. These are displayed on the website and in the laboratories as well as periodically communicated among students in classrooms, seminars, workshops and other events. The following process is used to evaluate PO and CO attainments in all programmes. 1. Lesson Plan is prepared by every faculty at the beginning of the semester. It includes CO, mapping CO with POs(PIs)-PSO, CO Assessment plan that contain CO Assessment tools, Rubrics, CO Attainment Target. 2. DQAC reviews COs and assessment plan. 3. Every faculty gathers and compiles data of various assessment tools throughout the semester as per the lesson plan and calculates CO attainment with results of End Sem exam. DQAC verifies the CO attainments. 4. Each department calculates the PO attainment. DQAC verifies attainment 5. DQAC ensures implementation of remedial measures to improve PO and PSO attainment at department or sets new target value during next academic year.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/145-02-teaching-learning-and-evaluation?download=1285:2-6-1additional-information">https://frcrce.ac.in/index.php/crce-downloads/category/145-02-teaching-learning-and-evaluation?download=1285:2-6-1additional-information</a>
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View File</a>

## 2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

2.6.2.a. Process to measure CO attainment Each faculty member identifies tools, their weightage and target values required to measure CO attainment for each course. DQAC verifies them and suggests tools, target values, etc. Based on the feedback from DQAC, faculty member makes appropriate changes. Every faculty gathers and compiles data of various assessment tools throughout the semester as per the lesson plan and calculates CO attainment with results of End Semester exam. DQAC verifies the CO attainments and suggests remedial actions if necessary. Faculty member implements remedial measures during following year to improve CO attainment or sets a new target value. 2.6.2.b. Process to measure PO/PSO attainment DQAC identifies tools required, their weightage and target values to measure PO and PSO attainment. The Program Coordinator from the department collects the data at the end of semester/year as per the tools selected for measuring PO and PSO attainment. He/She calculates consolidated PO and PSO attainments and analyzes it. DQAC verifies attainment and suggests remedial action. DQAC ensures implementation of remedial measures to improve PO and PSO attainment at department level or sets a new target value during next academic year.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/145-02-teaching-learning-and-evaluation?download=1281:2-6-2">https://frcrce.ac.in/index.php/crce-downloads/category/145-02-teaching-learning-and-evaluation?download=1281:2-6-2</a>

## 2.6.3 - Pass percentage of Students during the year

### 2.6.3.1 - Total number of final year students who passed the university examination during the year

325

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Paste link for the annual report	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/145-02-teaching-learning-and-evaluation?download=1286:2-6-3">https://frcrce.ac.in/index.php/crce-downloads/category/145-02-teaching-learning-and-evaluation?download=1286:2-6-3</a>

## 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://frcrce.ac.in/index.php/crce-downloads/category/145-02-teaching-learning-and-evaluation?download=1308:2-7-1-student-feedback-fina>

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Resource Mobilization for Research

#### 3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

##### 3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

0

File Description	Documents
Any additional information	<b>No File Uploaded</b>
e-copies of the grant award letters for sponsored research projects /endowments	<b>No File Uploaded</b>
List of endowments / projects with details of grants(Data Template)	<b>No File Uploaded</b>

#### 3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

##### 3.1.2.1 - Number of teachers recognized as research guides

**9**

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

### **3.1.3 - Number of departments having Research projects funded by government and non-government agencies during the year**

#### **3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year**

**0**

File Description	Documents
List of research projects and funding details (Data Template)	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>
Supporting document from Funding Agency	<b>No File Uploaded</b>
Paste link to funding agency website	<b>Nil</b>

### **3.2 - Innovation Ecosystem**

#### **3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge**

**The institute has an innovation ecosystem that is constantly evolving, focusing on knowledge production and technological ownership. Initiatives include the Research and Development Committee to support the research ecosystem channelizing research and IPR activities, and the Research Centre in Mechanical, Electronics, and Computer Engineering to promote innovative research work which has aided in IPRs and journal / conference publications. The Institute Innovation Council (IIC-FrCRCE) established in 2018 to create a vibrant local innovation ecosystem and nurture innovative ideas among technology students, received 4 stars in 2021-22 for their initiatives. Project Cell, established in 2014, promotes innovative thinking among young minds and has won awards for projects including Vending Machine, Automatic shopping Robot and Robotic Assistance for TB patient in E-Yantra Robotics and Inovation Competation (E-YIC) held at IIT.**

Technical project teams, such as Abadha, CRCE Formula Racing (CFR), Mavericks, Vaayushastra, and Robocon, have performed exceptionally well in national and international competitions involving ATVs, Go-Karts, Robotics, Aero, and Quad-copter.

E-cell aims to create and foster entrepreneurial culture among budding engineers by identifying, training, and motivating students to become entrepreneurs. They organize various seminars, workshops, and competitions to promote innovation among students and help them realize their potential as future entrepreneurs.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### **3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year**

#### **3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year**

**6**

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

### **3.3 - Research Publications and Awards**

#### **3.3.1 - Number of Ph.Ds registered per eligible teacher during the year**

##### **3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year**

**16**

File Description	Documents
URL to the research page on HEI website	<a href="https://fragnel.edu.in/index.php/academics/research-development/research-centre-details">https://fragnel.edu.in/index.php/academics/research-development/research-centre-details</a>
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### **3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year**

#### **3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year**

**25**

File Description	Documents
Any additional information	<a href="#">View File</a>
List of research papers by title, author, department, name and year of publication (Data Template)	<a href="#">View File</a>

### **3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year**

#### **3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year**

**11**

File Description	Documents
Any additional information	<a href="#">View File</a>
List books and chapters edited volumes/ books published (Data Template)	<a href="#">View File</a>

### **3.4 - Extension Activities**

**3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year**

**In the institute, various extension activities, social events and**

programs are carried out which reflect our commitment to operate in a techno-social responsible manner. These activities succeed in sensitizing and motivating the students to social issues and their holistic development. We aim to pursue our goals as one, keeping agreement with the planet and society.

The NSS unit in the institute has always stood up to its strong spirit of serving the society, keeping in mind the motto "Not Me but You". Rotaract club and TedxCRCE council are also actively involved in the extension activities. The extension activities conducted in AY 2022-23 include Blood Donation Camp, Webinar On Carbon Footprints, Swatcha Sagar Surakshit Sagar, Beach Cleanup drive, Nature's Trail, Stem Cell Donation drive, Heart and Sole Run Marathon, World Kindness movement, Khel Khud Movement donation drive to name a few.

The institute, under the Unnat Bharat Abhiyan (UBA) has been actively involved in the cluster of villages including Agashi, Arnala Killa, Dahe, Dongare, Khand, Mahim. The team conducted a book donation drive and sports equipment distribution drive in 2022-23, which helped them to build a good relation with the gram panchayats for conducting future activities in the village.

File Description	Documents
Paste link for additional information	<b>Nil</b>
Upload any additional information	<a href="#">View File</a>

#### **3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year**

##### **3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year**

**0**

File Description	Documents
Any additional information	<b>No File Uploaded</b>
Number of awards for extension activities in last 5 year (Data Template)	<b>No File Uploaded</b>
e-copy of the award letters	<b>No File Uploaded</b>

**3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., ( including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs ) during the year**

**3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year**

**5**

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	<a href="#">View File</a>

**3.4.4 - Number of students participating in extension activities at 3.4.3. above during year**

**3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDS awareness, Gender issue etc. year wise during year**

**267**

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

**3.5 - Collaboration**

**3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year**

**3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year**

**131**

File Description	Documents
e-copies of related Document	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
Details of Collaborative activities with institutions/industries for research, Faculty	<a href="#">View File</a>

### **3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year**

#### **3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year**

**6**

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	<a href="#">View File</a>

## **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 equipment etc.**

**The institution diligently adheres to the prescribed standards set by AICTE, DTE, and the University of Mumbai, ensuring that its facilities robustly support educational objectives. Boasting 22 classrooms, 4 tutorial rooms, 31 laboratories, 2 seminar halls, an auditorium named Samvaad, a canteen, common rooms for both genders, a gymkhana, drawing hall, library, computer center, and a pre-incubation center, the campus holistically caters to the needs of students and faculty, cultivating an environment conducive to research and development endeavors.**

**Classrooms and seminar halls are equipped with contemporary amenities, including interactive display, LCD projectors, internet**

connectivity, ventilation, and optimal lighting. Samvaad, the auditorium, accommodates up to 200 students and serves as a versatile venue for placement activities, seminars, cultural events, and conferences.

Departments maintain well-equipped laboratories with state-of-the-art machines and software, and a central research laboratory propels R&D initiatives. The institute's expansive computing network comprises 532 computers with 100 Mbps bandwidth, connected through LAN and internet. The central library, featuring the latest software, offers a diverse collection of books, journals, web-based resources, and a digital library with 25 dedicated computers. Additionally, sports amenities, a gymnasium, and essential services such as parking, CCTV cameras, UPS, and generators are diligently maintained.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

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

The institution has meticulously developed a 1265.50 sq ft professional sports ground, catering to diverse sports like cricket, basketball, football, volleyball, throw ball, and rink football. Annual sports competitions, including Athlos and the Annual Sports Day, provide platforms for students to showcase their athletic talents. The well-equipped gymkhana hosts intra and inter-collegiate tournaments for indoor games like table tennis, chess, and caroms, with a dedicated budget for sports activities. Outdoor games such as shuttle badminton, volleyball, throw ball, cricket, and football engage students during events like the Annual Sports Day and Athlos. Specialized activities like relay, running, long jump, shot puts, and tug-of-war often require external grounds hired specifically for the Annual Sports Day.

With two seminar halls accommodating 200 and 100 individuals, the institute hosts cultural activities like Fresher's parties, induction programs, debates, social gatherings, workshops, STTPs, FDPs, alumni meets, and career guidance sessions. External

auditoriums are secured for the Annual Culture Program, featuring inter-collegiate competitions in skits, dances, and debates. A dedicated committee oversees cultural events, enriching the vibrant cultural landscape with class decoration competitions, face painting contests, nail art competitions, dances, and traditional day celebrations.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### **4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.**

24

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

##### **4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)**

151.87

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload audited utilization statements	<a href="#">View File</a>
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

## **4.2 - Library as a Learning Resource**

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

**Library Management system is a totally integrated management system designed specifically for efficient management of Library. This helps library to function independently catering to different tasks.**

**Library is automated with KOHA software purchased in March, 2023.**

The library was using Brain built software from the year 2002. Data transfer was carried out when the new software LIBSuite was purchased in 2007. Recently, the institution embraced KOHA for its web-based interface, enhancing accessibility for both students and faculty. This dynamic software allows users to check book availability within the campus and remotely via the Web Access OPAC at <http://granth.fragnel.edu.in:5186/webopac8/>. Front desk operations, including issue and return transactions, are efficiently managed through this module.

Barcode has been implemented for all library books, with the software facilitating barcode printing and utilization of barcode scanners during book transactions. KOHA stands out as an enterprise-class Integrated Library System (ILS), offering comprehensive features like acquisitions, circulation, cataloguing, serials management, authorities, reporting, label printing, and offline circulation. The software's statistical analysis capabilities provide insights into daily, weekly, monthly, and yearly transactions, contributing to effective library management.

**Library Software:** KOHA, Invoice No. : G22/000063, Earlier software available was LibSuite, Invoice No.: SACPL/EDI/0607/016 dt 30.03.2007.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional Information	Nil

**4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-**

**A. Any 4 or more of the above**

## **books Databases Remote access toe-resources**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

### **4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)**

#### **4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)**

**17.91**

File Description	Documents
Any additional information	<a href="#">View File</a>
Audited statements of accounts	<a href="#">View File</a>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

### **4.2.4 - Number per day usage of library by teachers and students ( foot falls and login data for online access) (Data for the latest completed academic year)**

#### **4.2.4.1 - Number of teachers and students using library per day over last one year**

**55**

File Description	Documents
Any additional information	<b>No File Uploaded</b>
Details of library usage by teachers and students	<a href="#">View File</a>

## **4.3 - IT Infrastructure**

### **4.3.1 - Institution frequently updates its IT facilities including Wi-Fi**

**The institute maintains a robust IT infrastructure with a total of 541 computers for students and staff. Connectivity is facilitated through a 100 Mbps Broadband ADSL line, ensuring seamless internet**

access. Regular updates, including WiFi enhancements, are conducted, with 5-6 labs overall and 2 labs specifically in the Computer Department being updated annually. These labs feature the latest computer versions, such as i3, i5, and i7, operating on Linux, Ubuntu, and Windows OS. A dedicated language lab enhances communication skills for both students and faculty.

The fully networked campus provides advanced IT facilities, enabling activities like email communication, internet surfing, and web-based application usage. High-end hardware, including IBM Xenon and HP Pro ML10 GB, supports various activities like online examinations, workshops, competitive exams, and virtual labs. Licensed application software, continuously updated, includes Labview, Multisim, Autocad, Arena Software, Ansys, and more.

Open-source software like Scilab, Net Beans IDE and others supplement the technological toolkit. A Central login authentication system (LDAP) streamlines access to campus services. Additionally, a biometric login system manages staff attendance, and students are provided with cloud-based storage in the college drive. The institute maintains a commitment to staying technologically updated for an enriched learning environment.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 4.3.2 - Number of Computers

532

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	<a href="#">View File</a>
4.3.3 - Bandwidth of internet connection in the Institution	A. ? 50MBPS

File Description	Documents
Upload any additional Information	<b>No File Uploaded</b>
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

#### **4.4 - Maintenance of Campus Infrastructure**

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

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

**473.22**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Audited statements of accounts	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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

The institute upholds a comprehensive maintenance system for all essential facilities, ensuring year-round upkeep and addressing immediate needs. Oversight is provided by the Maintenance Committee, responsible for buildings, classrooms, and laboratories, aligning infrastructure expansion with academic growth per AICTE norms. Faculty in-charge is designated for each floor, with a maintenance coordinator conducting periodic checks.

Lab equipment maintenance is initiated through requests from laboratory-in charges, channelled through the purchase committee. Third-party experts are engaged for repair, and records are meticulously maintained in lab registers. Non-teaching staff are trained in science and computer equipment maintenance. External agencies are appointed for infrastructure, equipment, and facility maintenance through annual contracts. Quotations are solicited and finalized by the purchase department, following a comprehensive

procurement process. Housekeeping is outsourced, supervised by a dedicated supervisor, ensuring cleanliness and minor repairs.

Minor maintenance tasks for furniture, electrical systems, and AC units are managed by relevant departments or coordinators. Non-teaching staff assigned to each floor regularly clean and maintain classrooms, staffrooms, seminar halls, and laboratories. HODs submit periodic repair and maintenance requirements to the purchase officer, who oversees the centralized procurement process.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

#### 5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

279

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	<a href="#">View File</a>

#### 5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

#### 5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

17

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View File</a>

**5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following:** Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

**A. All of the above**

File Description	Documents
Link to Institutional website	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/148-05-student-support-and-progression?download=1282:5-1-3-capacity-building-and-skills-enhancement-initiatives-2022-23">https://frcrce.ac.in/index.php/crce-downloads/category/148-05-student-support-and-progression?download=1282:5-1-3-capacity-building-and-skills-enhancement-initiatives-2022-23</a>
Any additional information	<a href="#">View File</a>
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>

**5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

1102

**5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

1102

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

<b>5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees</b>	<b>A. All of the above</b>
---	----------------------------

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

<b>5.2 - Student Progression</b>
<b>5.2.1 - Number of placement of outgoing students during the year</b>
<b>5.2.1.1 - Number of outgoing students placed during the year</b>
<b>128</b>

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Details of student placement during the year (Data Template)	<a href="#">View File</a>

## 5.2.2 - Number of students progressing to higher education during the year

### 5.2.2.1 - Number of outgoing student progression to higher education

36

File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
Details of student progression to higher education	<a href="#">View File</a>

## 5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

### 5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

73

File Description	Documents
Upload supporting data for the same	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	<a href="#">View File</a>

## 5.3 - Student Participation and Activities

### 5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as

**one) during the year**

**5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.**

**4**

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	<a href="#">View File</a>

**5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms )**

**CRCE has an active student council that addresses student concerns and facilitates all round development of students through organization of co-curricular and extracurricular activities and programs such as Euphoria - annual cultural program, CRMD - A debate competition, CRESCENCO - a technical event, an annual Sports meet, The Heart & Sole Run (HSR) - A marathon Run. Student council members are elected as per University of Mumbai norms.**

**Students take various roles such as Class Representative or Training and placement coordinator to assist respective bodies. Student Chapters are established for professional bodies such as ASME, CSI, Codelabs, Google Developers club, eCell, IIIE, IEEE, Mozillaclub, SAE, ACM, WIE, and TEDx. They conduct activities in alignment with the respective professional bodies like expert lectures, industrial visits, technical events and contests.**

**The institute has established various project teams like Abadha, Robocon, Vaayushastra and CRCE Formula Racing that participate in prestigious engineering competitions at national and international level.**

Various social clubs like NSS and Rotaract organize various socially relevant events to sensitize students towards societal issues and community services. Students are also involved in various administrative committees like College development committee (CDC), IQAC cell, Internal complaint committee, Anti-ragging committee, women development cell and in alumni committee.

File Description	Documents
Paste link for additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/148-05-student-support-and-progression?download=1211:5-3-2-institute-facilitates-students-representation-and-engagement-in-administrative-co-curricular-and-extra-curricular-activities-2022-23">https://frcrce.ac.in/index.php/crce-downloads/category/148-05-student-support-and-progression?download=1211:5-3-2-institute-facilitates-students-representation-and-engagement-in-administrative-co-curricular-and-extra-curricular-activities-2022-23</a>
Upload any additional information	<a href="#">View File</a>

### 5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

#### 5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

11

File Description	Documents
Report of the event	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template))	<a href="#">View File</a>

### 5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

**CRCE Alumni Association was established in the year 1993 - 94. The objective is to promote interaction between Alumni and the Institute, to encourage the Alumni to take abiding interest in the**

development of the Institute, to support placement and internship activities for the students, to mentor the students for higher education, to guide the students on self-employment, to promote the Industry-Institute interaction.

Alumni contribute significantly to the development of the Institution through financial means. This year our Alumnus Mr. Suresh Balakrishnan, Mr. Pavan Savant and Mr. Paresh Shetty have instituted a total yearly scholarship of 4.3 lakhs for scholar but economically-constrained students.

Alumni are invited for expert lectures, as keynote speakers for training and Career counseling programs, as Guests of Honor for our Annual Cultural fest and also as speakers for TEDx-CRCE. They also contribute to curriculum enrichment through their structured feedback on the curriculum to keep pace with the recent advancements in industry. They are also members of the IQAC and DAB committee. The Alumni Spotlight, a series of videos from the distinguished alumni of CRCE bring to the light their successful journeys to motivate our students. Alumni committee has a networking portal- Alma Connect, for helping an alum / student get trusted help from his/her alumni network.

File Description	Documents
Paste link for additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/148-05-student-support-and-progression?download=1218:5-4-1-alumni-contribution-financial-other-service-support-2022-23">https://frcrce.ac.in/index.php/crce-downloads/category/148-05-student-support-and-progression?download=1218:5-4-1-alumni-contribution-financial-other-service-support-2022-23</a>
Upload any additional information	<b>No File Uploaded</b>

**5.4.2 - Alumni contribution during the year (INR in Lakhs)**      **B. 4 Lakhs - 5 Lakhs**

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

Fr. Conceicao Rodrigues College Engineering is one of the educational institutions run by the Society Of St. Francis Xavier, Pilar, India duly registered under the Societies Registration Act XXI of 1860, with registration No. Bom 13/1959 GB BSD dated 7th February 1959. The Society is also registered under the Bombay Public Trust Act 1950, with the Number in the Register of Public Trusts as F-741 (BOM) dated 31st March 1960. The institution is managed by highly experienced members in the governing council which meets twice a year with an acute foresight into the matters concerned with the development of the institute. The initiatives truly reflect the determined efforts to ensure vision and mission are accomplished. The initiatives for example include the addition of state of the art equipment in all the laboratories, allowing formation of technical teams and encouraging them to participate in various national and international competitions, thus providing a wide range of exposure to advances in technology world wide. Further, the College has a "College Development Committee" constituted as per the guidelines of Mumbai University which also meets twice in a year. The local council management meets, on average, once in a month. The guidelines thus drafted will be discussed in "Institute level Committee" by the principal and finally Head of the Departments in turn discusses all such matters in staff meeting. This will enable each staff to participate in decision making process and ensure to fulfil the vision and mission of the institute.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

**Participative management:**

A well-delegated democratic system has been developed and followed, to facilitate decision making. This ensures transparency through the participation of all stakeholders.

**Laboratory Purchases:**

The Director initiates the process of annual budgeting for all units of Agnel Technical Complex by calling a Local Council meeting. At the institute level committee meeting, the Director and the Principal brief about the budgetary plan. HODs discuss the departmental preferences with departmental faculty members and invite proposal(s) from lab in-charges for the next financial year. A consolidated statement of department proposal is submitted to the Principal by HODs. The principal and the Accounts in-charge prepare the institute-level consolidated budget proposal. The Principal presents the proposed budget in the College Development Committee meeting for approval. Once approved, the Principal submits the final budget proposal to the Trustees and the Governing Council of the Society for approval. The final approved budget is communicated to the Principal. In case of any expenditure escalating beyond the approved budget, special approval may be sought from LCM, up to 10%, beyond which approval should be by Trustees.

This case study showcases the involvement of each stakeholder of the institute in the decision making process.

File Description	Documents
Paste link for additional information	<b>Nil</b>
Upload any additional information	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Institute adopted strategies to upgrade in different aspects like:

- Obtaining NAAC and NBA accreditations for the institute and eligible branches. Plan was properly deployed and the institute is conferred with NAAC 'A' grade valid for five years. Also the Computer Engineering Department is conferred with NBA accreditation.
- Another strategic plan was to become "An autonomous College" by the academic year 2024-25. Effective deployment lead to the conferment of autonomous status for 10 years.
- To provide a boost in the research domain strategic plan being deployed was the implementation of Research Policy.

- With Management initiative in motivating faculty and staff to get involved in Internal Resource Generation (IRG), a strategic plan is devised. Accordingly, IRG policy is published.

A staff is eligible to share some profit earned proportionately. This scheme is to motivate the staff. Few staff members enthusiastically involved in this scheme and looked forward to associating themselves with Training the workers of an industry or conducting short term training certification courses which in turn help the candidate in upgrading his skills in the industry currently he/she is working or getting employed in an industry. Similarly, CNC operators courses are also in progress.

File Description	Documents
Strategic Plan and deployment documents on the website	<b>No File Uploaded</b>
Paste link for additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/149-06-governance-leadership-and-management?download=1303:6-2-1">https://frcrce.ac.in/index.php/crce-downloads/category/149-06-governance-leadership-and-management?download=1303:6-2-1</a>
Upload any additional information	<b>No File Uploaded</b>

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

Fr. Conceicao Rodrigues College of Engineering was established by the Society of St. Francis Xavier, Pilar, a Public and Charitable Trust. The college is managed by a Governing Council (as per AICTE norms), Local Management Committee now restructured as College Development Committee (as per the guidelines of Mumbai University) and Local Council Management (as per the guidelines of the Trust). The Governing Council sets guidelines for academic and administrative policies. It reviews and recommends Program initiatives, Annual budget, infrastructural development, Admissions, results, placements, Staff development activities and Staff position.

Administration adheres to the norms of the Mumbai University. It carefully analyzes the activities of the college and recommends measures for better functioning. The Governing Council meets once

in a year and discussions are held on different aspects of the institute. Decisions are taken in this meeting with a broader perspective of the institute. The College Development Committee is required to meet twice in a year for Discussions and deliberations. LCM meets to process and approve the proposals from different units of the institute. All major policy decisions are reviewed and approved by LCM. The Institute Level Committee meets to formulate and analyze policies pertaining to academics, student activities, placement, budget allocations and general administration.

File Description	Documents
Paste link for additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/149-06-governance-leadership-and-management?download=1252:6-2-2">https://frcrce.ac.in/index.php/crce-downloads/category/149-06-governance-leadership-and-management?download=1252:6-2-2</a>
Link to Organogram of the institution webpage	Nil
Upload any additional information	No File Uploaded

<b>6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination</b>	<b>A. All of the above</b>
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File Description	Documents
ERP (Enterprise Resource Planning) Document	No File Uploaded
Screen shots of user interfaces	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	<a href="#">View File</a>

### **6.3 - Faculty Empowerment Strategies**

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff

**The Institute has following effective welfare schemes for the benefit of its teaching and non-teaching staff:**

**1. Agnel Cooperative Credit Society**

**2. Accidental Insurance.**

**3. MOU with holy family hospital.**

**4. GRATUITY**

Accidental Insurance is one such measure. With this scheme, all the staff members are insured upto Rs 1 lac. Another welfare scheme by college is the provision of loans. Accordingly, Agnel

Employees Cooperative Credit Society was started in 1985. Each staff member may become its member and avail different loan schemes like long term loans, medium term loans and emergency loans. Emergency Loan is upto Rs. 20,000/- . This loan gets disbursed within 24 hours. Other loan facilities are with loan amounts from 1 -7.5 lacs. For any medical assistance,

the management has signed an MOU with Holy Family hospital. All the students and staff members can avail this facility.

After superannuation, a scheme called Gratuity which ensures financial protection after retirement is offered to all the employees of the institute. Currently Rs. 10 lacs is the ceiling under this scheme. Teaching and non-teaching staff are sent for training in technical courses like FDP's, hardware training etc. Faculty are sponsored for Post graduate and Doctoral programs. Such faculty are relieved from some institutional responsibilities.

File Description	Documents
Paste link for additional information	<b>Nil</b>
Upload any additional information	<a href="#">View File</a>

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

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

**6**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

**6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year**

**6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year**

5

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	<b>No File Uploaded</b>
Reports of Academic Staff College or similar centers	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View File</a>

**6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)**

**6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year**

37

File Description	Documents
IQAC report summary	<b>No File Uploaded</b>
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	<b>No File Uploaded</b>
Upload any additional information	<a href="#"><u>View File</u></a>
Details of teachers attending professional development programmes during the year (Data Template)	<a href="#"><u>View File</u></a>

#### 6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

**Academic audit, for individual faculty and department, is conducted at the end of the year by an external expert.**

##### **Appraisal System:**

- For Faculty:**

At the end of academic year, faculty are evaluated for their performance based on 3600 feedback introduced in 2021. Faculty submits the duly filled in form with relevant documents and evidence which is evaluated by the IQAC and sent to the principal for further action.

Academic section evaluation is based on the courses taught, Beyond Syllabus Activities, innovations in teaching, Contribution towards Learning Resources Development, UG/PG projects guided, Efforts for Lab Work/Tutorials and University related work.

Student Development includes Course results, average student attendance, student feedback, co-curricular activities conducted for students, mentoring and placement of students in the preceding year.

Institutional Development includes efforts for the overall development of the Institute. Like organization and participation in conferences, STTPs, FDPs etc., participation in departmental and institute committee activities, revenue generation, service to community, faculty interaction with the outside world.

Professional Development is based on performance parameters such

as publications, patents, honors.

**Non-Teaching Staff:**

Quality assessment refers to the examination and evaluation of employee's work against standards and procedures to assess his commitment to the post, the individual capability and performance.

File Description	Documents
Paste link for additional information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/149-06-governance-leadership-and-management?download=1301:6-3-5">https://frcrce.ac.in/index.php/crce-downloads/category/149-06-governance-leadership-and-management?download=1301:6-3-5</a>
Upload any additional information	<a href="#">View File</a>

**6.4 - Financial Management and Resource Mobilization**

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

**1. Internal Audit:**

In any organisation, financial transactions need to be scrutinised by a team of internal

auditors. Financial transactions may be broadly classified as follows:

1. Purchase of materialz
2. Examination remunerations
3. Honorarium to invited guests and/or technical experts or otherwise.
4. Miscellaneous remunerations.

As per the guidelines set by management internal audit is carried out within the institute. Process of Internal audit is as follows:

College has appointed a team of two internal auditors. Audits are carried out by internal auditor team on every bill generated at the accounts section. Any Discrepancies in the bill is communicated back to the account section. Audited bills are later presented to director.

All miscellaneous expenses are also handled in the similar manner.

**External Audit:**

An external auditor is appointed by the college to audit the financial statements of the college. The financial records of the College are audited at the end of each financial year and are certified. These are also available in the college web -site.

File Description	Documents
Paste link for additional information	<a href="#">Nil</a>
Upload any additional information	<a href="#">View File</a>

**6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)**

**6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)**

File Description	Documents
Annual statements of accounts	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	<a href="#">View File</a>

**6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources**

The college is self-financed and primary source of income is tuition fees received from the students. Fee regulating authority of State government approves the tuition fees. IRG courses, corporate training and exams on behalf of Government and Non-Government organisations examinations like GATE, CET, and NEET

etc. are conducted to mobilise the funds. In addition some industries sponsor co-curricular and extracurricular activities of the students.

#### Optimal utilisation of resources:

Optimum utilisation of labs by conducting Internship Programs after the end of the semester. Internet Centre is a dedicated lab assigned to students who can work round the clock towards preparing for Hackathon's without disturbing the scheduled labs in the timetable. Optimum utilisation of manpower to conduct Unit tests and End Semester examinations are in place. Seminar hall and Samvaad auditorium is used to conduct faculty/student development programs.

Labs are used for IRG courses, corporate training and exams on behalf of Government and Non-Government organisations examinations like GATE, CET, and NEET. Funds are utilized for development and maintenance of infrastructure of the institute towards upkeep of tangible fixed assets, repairs and maintenance of administrative areas, laboratories, classrooms, gymkhana etc. The funds are allocated to conduct Guest lectures by eminent experts from Industry.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

#### 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

##### **IQAC institutionalized Faculty Performance Evaluation.**

Parameters considered for this are:

1. Curriculum Coverage
2. Course Material
3. Students Attendance Record
4. Results

**5. Projects Guided**

**6. Mentoring and Counseling**

**7. Student Feedback**

**8. Faculty Development**

**9. Interaction with the Outside World**

**10. Courses/Seminars Organized in College**

**Performance evaluation procedure:**

**1. Each faculty does self-evaluation of his/her performance during year.**

**2. An Academic Audit is conducted for the academic year in the prescribed format.**

**3. Panel consisting of Principal and HOD discusses with faculty.**

**4. Faculty are informed about the assessment outcomes and the areas of improvements.**

**5. Faculty decides corrective measures for improvement.**

From the academic year 2021-22, 3600 appraisal system has been implemented as per UOM guidelines.

Project based learning is a comprehensive approach to classroom teaching and learning that is designed to engage students in investigation of authentic problems. The modern engineering profession deals constantly with uncertainty, with incomplete data and often conflicting demands from clients, governments, environmental groups and general public. It requires skills in human relations as well as technical competence.

IQAC has implemented project based learning in Computer and Electronics Engineering Department. IQAC has instructed other departments to start with the practice of project based learning.

File Description	Documents
Paste link for additional information	<a href="https://fragnel.edu.in/index.php/crce-downloads/category/149-06-governance-leadership-and-management?download=1255:6-5-1-policies">https://fragnel.edu.in/index.php/crce-downloads/category/149-06-governance-leadership-and-management?download=1255:6-5-1-policies</a>
Upload any additional information	<a href="#">View File</a>

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

#### **1:Midterm feedback**

As suggested by IQAC , a scheme for improving teaching-learning process called "MID- TERM FEEDBACK" is introduced. Accordingly, in the mid of the semester feedback is collected from the students. The selection of the students is based on their overall performance in the academics, curricular and extracurricular activities.

Head of the department will call those students to interact one by one personally with certain set of questions. Followed by this will be the answering few questions in the sheet given.

A combined assessment for a subject teacher is based on both the inputs received. The concerned teacher is informed and is given certain instructions to work upon.

#### **2: Department Quality Assurance Committee (DQAC)**

IQAC introduced Department Quality Assurance Committee for monitoring the quality at the department level followed by Academic Audit at the end of academic year. The responsibilities of DQAC are:

- Quality assessment of lesson plans, assignments, unit test papers.
- Checking at regular intervals for adherence to deadlines given to departmental needs like co-po calculations, attendance entry, tests marks entry .
- One to one meeting with each faculty as a follow-up procedure.

- Any other quality assurance related work.

File Description	Documents
Paste link for additional information	<b>Nil</b>
Upload any additional information	<a href="#">View File</a>

<b>6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)</b>	<b>A. All of the above</b>
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File Description	Documents
Paste web link of Annual reports of Institution	<b>Nil</b>
Upload e-copies of the accreditations and certifications	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## 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

**The institute serves as a pedestal for gender equality, empowering, and honoring women achievers and encouraging them to be the torchbearers of society. The Women Development Cell (WDC) of the institute provides the female members (female staff and students) with platforms to share professional issues. The Internal Complaints Committee (ICC) addresses the issues pertaining to the sexual harassment issues of female members. The**

Anti-Ragging Committee ensures compliance with the provisions of the regulations as well as any law currently in effect concerning ragging, as well as to monitor and oversee the performance of the Anti-Ragging Squad in preventing ragging. There are programs that aid the above mentioned equality. The institute has joined forces with Katalyst NGO for courses and mentorship for the financial independence of the female members, running in the same line, we have WIE membership for IEEE, available free of cost, especially for women candidates. It aims to inculcate pivotal advancements related to technology and social issues, fostering women with a firm technological background. The institute has promoted the "Best All-Rounder" award for students who excel in academics, extracurricular activities, and social work. Equal opportunity is given to male and female candidates to participate and compete.

File Description	Documents
Annual gender sensitization action plan	<b>Nil</b>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/150-07-institutional-values-and-best-practices?download=1280:7-1-1">https://frcrce.ac.in/index.php/crce-downloads/category/150-07-institutional-values-and-best-practices?download=1280:7-1-1</a>

<b>7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/power efficient equipment</b>	<b>B. Any 3 of the above</b>
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File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

**The Institute coherently manages different types of waste generated on the campus. The waste generated is bifurcated into dry and wet waste for different processing methods by the BMC**

authorities. The institute also segregates plastic and wood waste which is further managed by the vendor dealings. Non-degradable waste management runs through the campus system by segregating the plastic and glass waste materials. The Local Management Council Meeting was held to finalize the asset management policy which caters to the traceability of the stock, and the smooth process of audit, and scrapping.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	<b>No File Uploaded</b>
Geo tagged photographs of the facilities	<a href="#">View File</a>

<b>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</b>	<b>B. Any 3 of the above</b>
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File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

#### **7.1.5 - Green campus initiatives include**

<b>7.1.5.1 - The institutional initiatives for greening the campus are as follows:</b>	<b>B. Any 3 of the above</b>
<b>1. Restricted entry of automobiles</b> <b>2. Use of bicycles/ Battery-powered vehicles</b> <b>3. Pedestrian-friendly pathways</b> <b>4. Ban on use of plastic</b> <b>5. Landscaping</b>	

File Description	Documents
Geo tagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<b>No File Uploaded</b>
Any other relevant documents	<b>No File Uploaded</b>

#### **7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution**

<b>7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities</b>	<b>D. Any 1 of the above</b>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<b>No File Uploaded</b>
Certification by the auditing agency	<b>No File Uploaded</b>
Certificates of the awards received	<b>No File Uploaded</b>
Any other relevant information	<a href="#">View File</a>

<b>7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading</b>	<b>B. Any 3 of the above</b>

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Policy documents and information brochures on the support to be provided	<b>No File Uploaded</b>
Details of the Software procured for providing the assistance	<b>No File Uploaded</b>
Any other relevant information	<b>No File Uploaded</b>

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

The institute is dedicated to fostering an inclusive environment and raising awareness among students and faculty regarding constitutional obligations and cultural harmony. The National Service Scheme (NSS) unit, known as NSS-CRCE, plays a pivotal role by organizing various activities & also conducts seminars addressing social issues and challenges, contributing to the overall awareness of students. It also conducts events related to saving the environment, beach clean-up drives, blood donation drives, etc. to sensitize students and staff towards their duties as citizens. The various events include World Environment day, World Beach Cleanup Day, Food Fest on account of World Food Day and so on. The flagship event, Fr. Conceicao Rodrigues Memorial Debate (CRMD), serves as a national platform for promoting cultural and linguistic diversity awareness, fostering critical thinking about related issues. The publication of the yearly magazine, FRAGMAG, featuring articles in English, Hindi, and Marathi, reflects the commitment to linguistic diversity and provides a platform for expressing the collective experiences of the college community. In essence, the institute adopts a comprehensive approach, addressing social, cultural, and environmental dimensions, to create an inclusive and harmonious educational setting while fostering awareness and responsibility among its members.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

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

**Fr. Conceicao Rodrigues College of Engineering (CRCE) is dedicated to sensitizing its students and employees to their constitutional obligations, encompassing the fundamental values, rights, duties, and responsibilities of citizens.** The institution recognizes the significance of instilling a deep understanding of constitutional principles among its community members. Through various educational initiatives and programs, CRCE actively promotes awareness and knowledge about the constitutional framework, aiming to cultivate a sense of civic responsibility and ethical conduct. By fostering this awareness, CRCE aims to empower its students and employees to be informed, responsible citizens who contribute positively to society, aligning with the core values of the institution. The Unity Day Celebration and an interactive session was organized by NSS CRCE to commemorate Sardar Vallabhbhai Patel's birth anniversary, who played a crucial role in the unification of India. Host Rishabh Pathak gave an online quiz to solve problems for students and teachers. Quiz was framed on the life of Shri Sardar Vallabhbhai Patel.

File Description	Documents
Details of activities that inculcate values; necessary to render students into responsible citizens	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/150-07-institutional-values-and-best-practices?download=1262:7-1-9">https://frcrce.ac.in/index.php/crce-downloads/category/150-07-institutional-values-and-best-practices?download=1262:7-1-9</a>
Any other relevant information	Nil

**7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to**

**C. Any 2 of the above**

**the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff**      **4. Annual awareness programmes on Code of Conduct are organized**

File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<b>No File Uploaded</b>
Any other relevant information	<a href="#">View File</a>

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

**Fr. Conceicao Rodrigues College of Engineering (CRCE) is dedicated to fostering gender equality and ensuring equal opportunities for the growth and development of all individuals. The college actively empowers women by providing a platform for their advancement. Through a series of events and workshops, CRCE focuses on the empowerment of female professors and students, encouraging their active engagement and participation.**  
**Additionally, the college celebrates various national and international commemorative days and events, including but not limited to Engineers Day INGENIUM, IEEE - WIE CRCE organized a Mental Health Awareness Session for Teachers and Students, etc. These celebrations contribute to the holistic development of the CRCE community by promoting awareness and participation in significant social, environmental, and educational initiatives.**

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<b>No File Uploaded</b>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

## 7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

The college suggested developing an ecosystem to promote open-source technologies and in-house software development for academic and administrative purposes to cut expensive licensing fees and limitations. For labs and projects, the college recommends open-source software and tools. Students can use LibreOffice, OpenCV, PyTorch, OpenNN, TensorFlow, LaTeX, Octave, Scilab, GCC compiler, JDK, Eclipse, Umbrello, GNU plot, python compiler, packet tracer, NS2, Apache Hadoop ecosystem, and others to conduct lab experiments on desktop PCs. The college has a Linux cloud. Project groups are mentored to use open-source technologies for academic projects/contests. Examples of applications developed include Biometric marking, Leave Applications, Service Records, and Student attendance marking, among others. The Software developed is used in day-to-day college administration.

KOHA, an Automated open-source package for the library is used and can be used for institutional requirements. The second Practice of the college includes Resource Sharing and Interlibrary Loan (ILL) Services to facilitate the students to avail library facilities of any of The Association of Catholic Christian Minority Institutions (ACCFMI) colleges by using their current college identity card. The Resource Sharing facility maximizes the intended utilization of all the libraries. Also, every student will benefit from the variety of resources, within his/her reach.

File Description	Documents
Best practices in the Institutional website	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/150-07-institutional-values-and-best-practices?download=1307:7-2-1-final">https://frcrce.ac.in/index.php/crce-downloads/category/150-07-institutional-values-and-best-practices?download=1307:7-2-1-final</a>
Any other relevant information	<a href="https://frcrce.ac.in/index.php/crce-downloads/category/150-07-institutional-values-and-best-practices?download=1278:7-2-1-proof">https://frcrce.ac.in/index.php/crce-downloads/category/150-07-institutional-values-and-best-practices?download=1278:7-2-1-proof</a>

## 7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Fr. Conceicao Rodrigues College of Engineering (CRCE) promotes holistic growth with skill-based learning enhancement and hands-on learning aiming to mould engineers to build the nation. The institute embraces the objectives as a pedestal for immersive and active learning, cognitive, creative, and critical thinking, inquiry, and teamwork, as focus areas.

To ace the learners' progress, the technical and non-technical councils and events provide students with unmediated learning. Design-based projects enhance their technical and soft skills. They participate in Hackathons, Robotics, Project Competition, Automobile Design, and Manufacturing. Workshops, Guest Lectures by Industry professionals and professors, Industrial Visits, etc. hone the uniqueness and character of the learners.

The student chapters/councils of CRCE are listed below:

1. American Society of Mechanical Engineers (ASME)
2. Association of Computing Machinery (ACM )
3. CodeLabs
4. Computer Society of India (CSI)
5. Entrepreneurship Cell (E-Cell)
6. Institute of Electrical and Electronics Engineering (IEEE )
7. Indian Institution Industrial Engineering (IIIE)
8. Mozilla Campus Club
9. National Service Scheme (NSS)
10. Project Cell
11. Rotaract Club
12. Students Council
13. Team Abadha
14. Team Vaayushastra

**15. Team Formula Racing (Team CFR)**

**16. Team Robocon**

**17. Team Mavericks**

**18. TEDxCRCE**

**19. IEEE-WIE**

**Conceicao Rodrigues Memorial Debate (CRMD), a national-level debate was put up on the 7th and 8th of October 2022 (cursive year).**

File Description	Documents
Appropriate web in the Institutional website	<b>No File Uploaded</b>
Any other relevant information	<a href="#">View File</a>

#### 7.3.2 - Plan of action for the next academic year

The Institute is committed to providing quality education to its students and keeping in mind the Institute Vision statement of "Moulding Engineers who can build the Nation" various measures are planned in the Academic year 2023-24. In lieu of the fact that the Institute was awarded an A grade by National Accreditation and Assessment Council (NAAC), the application process for Autonomy is in progress. Additionally, the Department of Computer Engineering is expected to have a National Board of Accreditation (NBA) visit in the near future (second cycle). The infrastructure of the college is being upgraded to make it ready for the changing academic environment. All classrooms have already been converted into smart classrooms with Interactive boards. Plans to upgrade laboratories with latest computing facility as well as hardware have been formulated. Additionally, many workshops as well as Seminars have been arranged for faculty to create an understanding of the requirements of an Autonomous institute as well as about the various facets of the National Education policy (NEP). The faculty structure has been redone and various In-Charges have been appointed in preparation for Autonomy as well as NEP.