YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution   **Jyothi Engineering College**

- Name of the Head of the institution   **Fr.Dr. Jose Kannampuzha**

- Designation   **Director**

- Does the institution function from its own campus?   **Yes**

- Phone no./Alternate phone no.   **04884259000**

- Mobile no   **9447870275**

- Registered e-mail   **info@jecc.ac.in**

- Alternate e-mail   **iqac@jecc.ac.in**

- Address   **Jyothi Engineering College, Jyothi Hills, Vettikkattiri PO Cheruthuruthy-Thrissur 679531, Kerala**

- City/Town   **Vettikkattiri PO , Cheruthuruthy**

- State/UT   **Kerala**

- Pin Code   **679531**

2.Institutional status

- Affiliated /Constituent   **Affiliated College**

- Type of Institution   **Co-education**

- Location   **Rural**

- Financial Status **Self-financing**

- Name of the Affiliating University **A.P.J. Abdul Kalam Technological University-Kerala**

- Name of the IQAC Coordinator **Dr. Anoop V**

- Phone No. **04884259000**

- Alternate phone No. **9846282142**

- Mobile **9895837646**

- IQAC e-mail address **iqac@jecc.ac.in**

- Alternate Email address **vanoop@jecc.ac.in**

3.Website address (Web link of the AQAR (Previous Academic Year) https://jecc.ac.in/documents/iqac/AQAR_2019-2020.pdf

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

- if yes, whether it is uploaded in the Institutional website Web link: https://jecc.ac.in/documents/iqac/Academic_Calendar_2020-2021.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B+**	**2.54**	**2016**	**16/09/2016**	**15/09/2021**

6.Date of Establishment of IQAC **10/10/2016**

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

Institutional/Depa rtment /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. Biju C V/Mechanical Engineering	One District One Idea (ODOI) Cluster Innovation Program	K-DISC	2021-2	4.57 Lakhs
Mr.Parthiban P/Civil Engineering	Municipal Mapping at Shornur Municipality as part of Mapathon Keralam	Kerala State Government	2021-0.6	0.48 Lakhs

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   3

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

- 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)

Preparation of NAAC SSR for Second Cycle of Accreditation

Organized FDP to promote Research Activities

Conducted Academic Audit

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
Academic Audit	Conducted 2 Academic audits as per the guidelines of Affiliating University. Reports Uploaded to University Portal
Promotion of Research Activities	Conducted Research FDP in collaboration with Christ University and Pelita bangsa University -Indonesia.
Proposed to start new UG programmes	Proposal is under the consideration of Management.

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

- Name of the statutory body

Name	Date of meeting(s)
College Council	22/03/2022

14.Whether institutional data submitted to AISHE

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• Registered e-mail	**info@jecc.ac.in**
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• Address	**Jyothi Engineering College, Jyothi Hills, Vettikkattiri PO Cheruthuruthy-Thrissur 679531, Kerala**
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• Name of the IQAC Coordinator	**Dr. Anoop V**
• Phone No.	**04884259000**
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• IQAC e-mail address	**iqac@jecc.ac.in**
• Alternate Email address	**vanoop@jecc.ac.in**

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• if yes, whether it is uploaded in the Institutional website Web link:	https://jecc.ac.in/documents/iqac/Academic_Calendar_2020-2021.pdf

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Name	Date of meeting(s)
College Council	22/03/2022

14.Whether institutional data submitted to AISHE

Year	Date of Submission
2022	30/03/2022

15.Multidisciplinary / interdisciplinary

16.Academic bank of credits (ABC):

17.Skill development:

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

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

20.Distance education/online education:

Extended Profile

1.Programme

1.1 Number of courses offered by the institution across all programs during the year	**492**

File Description	Documents
Data Template	View File

2.Student

2.1 Number of students during the year	**1510**

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	**257**

File Description	Documents
Data Template	View File

2.3 Number of outgoing/ final year students during the year	**432**

File Description	Documents
Data Template	View File

3.Academic

3.1	**124**
Number of full time teachers during the year	

File Description	Documents
Data Template	No File Uploaded

3.2	**119**
Number of sanctioned posts during the year	

File Description	Documents
Data Template	View File

4.Institution

4.1	**38**
Total number of Classrooms and Seminar halls	
4.2	**630.58**
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	**632**
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

The college follows curriculum prepared by APJ Abdul Kalam Technological University to which the college is affiliated practices a significant degree of decentralization and its academic administration is organised in the form of clusters which has significant autonomy in designing and developing

curriculum.This college has devised various strategies to ensure outcome based learning and for strengthening our teaching learning process. These are mentioned below,

- Class / Course / Advisory Committee
- Course delivery as per lesson plan

- Student's feedback.
- PTA meetings
- Course files preparation

- Class wise Students Mentoring system
- The academic calendar, semester plan and time table are circulated andlesson plans are prepared.
- To maintain quality, the internal exam question papers are approved by IQAC before sending it to exam cell.
- The central /department/digital libraries with e-books is available to both students and faculty members.
- Language Lab, Fab lab, Startup Center, IIIC, Technolgy Businesss Incubator, facilites areavailable forboth students and faculty members.
- Various FDPs on recent updates in technology conducted by eminent experts from the academic and industrial fields.
- Add-on/ NPTEL courses/ Invited talks/ MOOC courses/Webinars help the students to get sound information about the recent activities in the world and can thus improve their skills.

File Description	Documents
Upload relevant supporting document	[View File]()
Link for Additional information	https://jecc.ac.in/documents/iqac/2020/1.1.1_Additional_Documents.pdf

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

As quality enhancement is a continuous process, the Internal Quality Assurance Cell (IQAC) will become a part of an Institution's system and work towards realizing the goals of quality enhancement and sustenance. The prime task of IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of institutions.

IQAC will make a significant and meaningful contribution in the

post accreditation phase of institutions. During post accreditation period, IQAC will channelize the efforts and measures of an institution towards academic excellence.

The primary aim of IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution and to promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

IQAC evolves mechanisms and procedures for

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks.
- The relevance and quality of academic and research programmes.
- Equitable access to and affordability of academic programmes for various sections of society.
    - Optimization and integration of modern methods of teaching and learning.
    - The credibility of evaluation procedures.
    - Ensuring the adequacy, maintenance and proper allocation of support structure and services

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://www.jecc.ac.in/iqac

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 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

B. Any 3 of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	[View File](#)
Any additional information	[View File](#)

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

18

File Description	Documents
Any additional information	[View File](#)
Minutes of relevant Academic Council/ BOS meetings	[View File](#)
Institutional data in prescribed format (Data Template)	[View File](#)

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)

7

File Description	Documents
Any additional information	[View File](#)
Brochure or any other document relating to Add on /Certificate programs	[View File](#)
List of Add on /Certificate programs (Data Template)	[View File](#)

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

285

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

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

Jyothi Engineering College has taken impressive efforts to integrate cross cutting issues such as Gender, Environment and Sustainability, Human values and Professional Ethics wherever possible into curriculum and more often by other indirect means.

Gender:

Gender equality, equality between men and women, entails the concept that all human beings, both men and women, are free to develop their personal abilities and make choices without limitations set by stereotypes, rigid gender roles and prejudices.

- Jyothi ensures that equal opportunity is given to both genders in terms of admissions.
- Women Development Cell (WDC).
- Institution ensures equal representation of students (both genders) in students union, course committee, class committee etc.

Environment and Sustainability:

The following are some initiatives towards integrating environment ans sustainability into curriculum:

- Natura Club
- Centre for Water Research and Education(CWRE)
- Rain water harvesting facility with a pond of size 50m x 20m x 10m storage capacity.
- Grid connected Solar roof panel of 63.7kW power supply.

Human Values and Professional Ethics:

Jyothi is committed to provide quality education in engineering and technology, to transform the youth into committed technical

personal for the social and economical well being of the nation with integral development of the personality and character building.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

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

354

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	View File
Institutional Data in Prescribed Format	View File

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

618

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

A. All of the above

File Description	Documents
URL for stakeholder feedback report	https://jecc.ac.in/campusbook/ktu_feedbacks
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows

B. Feedback collected, analyzed and action has been taken

File Description	Documents
Upload any additional information	View File
URL for feedback report	https://jecc.ac.in/campusbook/ktu_feedbacks

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

429

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

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

74

File Description	Documents
Any additional information	[View File](#)
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

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

The institution has an effective student centric mechanism for continuous monitoring and evaluation of the students' performance for both slow and advanced learners.

Advanced learners

Advanced learners are encouraged, motivated and advised by the staff members to excel in their academics by providing them with all the support needed.

The following special programs are carried out to encourage advanced learners to enhance their overall personality development.

- **University Toppers are felicitated for academic excellence.**
- **Encouraged to join B. Tech Honours and additional certification programmes.**
- **Motivated to carry out innovative projects and to participate in various events.**
- **Encouraged to publish papers in Conferences and Journals.**
- **Motivation through Scholarships.**

Slow learners

The Institute practices a robust student academic counselling process to encourage slow learners for better performance.

The following special programs are carried out.

- **The institution has an effective mentoring system to identify the nature of their problems.**
- **Remedial classes are provided for slow learners.**
- **Faculty members prepare a university question bank for each subject and discuss ways of presenting answers in the university examination.**
- **Parents are intimated the progress of their wards on regular basis by the class tutors**

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/iqac/2020/2.2.1_Catering_To_Student_Diversity_Additional_Information.pdf
Upload any additional information	View File

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

Number of Students	Number of Teachers
2436	**124**

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

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

The institution has adopted a multi-pronged approach through which students are future ready to face professional life challenges using the methodologies stated below.

EXPERIENTIAL LEARNING

Project works and Workshops are concrete experiences where students understand the responsibility of the engineering profession and it provides an opportunity for them to improve technical skills and gives practical exposure.

The talks by both academic and industrial experts are arranged for students so as to update their knowledge and to bridge the gap between the industry and academia.

PARTICIPATIVE LEARNING

Students are encouraged to explore knowledge through seminars for participative learning. Various professional bodies conduct technical events to explore the technical skills of the learners.

Students are encouraged to involve in various certification courses thereby facilitating independent learning. The career guidance program are provided by the Placement Department Cell to enhance the overall personality development of students.

PROBLEM SOLVING METHODOLOGIES

Students are encouraged to improve their problem solving skills by participating in project contests, Hackathons and coding competitions. JECC follows the discussion method in many of the subjects as it makes the students to think wide and participate by coming up with opinions & suggestions to check their current knowledge.

File Description	Documents
Upload any additional information	[View File](#)
Link for additional information	[https://jecc.ac.in/documents/iqac/2020/2.3.1_Student_Centric_Method.pdf](#)

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

JECC usesICT enabled toolsfor: effective teaching - learning process, to implement new teaching techniques, to help students work collaboratively in the learning process. Teachers use different trusted online resources to enhance teaching- learning process.

The following methods are adopted in the institution:

1. The use of multimedia teaching aids by the faculty like LCD projectors, videos, PPTs, simulations in classrooms creates the best learning environment. The Google classroom is used to manage and post course related information.

2. The classrooms and laboratories are equipped with LCD projectors, computer facility, laptop connecting facility and UPS.

3. The faculty members use resources such as e-books, technical magazines and journals to keep the students actively involved in the classroom session.

4. The college has provided internet and Wi-Fi facility with 300 Mbps internet band width for students and faculty.

5. The institution has a specialized computer laboratory and a digital library, which helps the students to access various lectures and study materials.

6. MAC-ID based Wi-Fi facility for access to the internet is provided on individual laptop and mobile devices.

7. All academic related activities are made available in the campus automation software Campusbook which can be assessed by students.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

73

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

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

124

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

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

38

File Description	Documents
Any additional information	View File
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)	View File

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

971

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

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 following actions are taken for the transparent and robust evaluation of the students:

- **Academic calendar is prepared as per the university calendar for every semester that includes the schedule for internal assessment.**
- **Notifications from the university regarding the assessment are circulated among students, faculty, and staff through notice boards and website of the Institute (campus book).**
- **As per the regulations of affiliating university, two internal assessments are conducted every semester and the schedule is communicated to the students.**
- **The internal assessment question paper pattern has been standardized by IQAC.**
- **3 sets of question papers are prepared for each subject based on Course outcomes and are approved by HODs. The IQAC selects one for the internal assessment.**
- **Answer scripts are returned within a week from the exam date and the student can approach the teachers for any clarifications.**
- **The mark list for Internal Assessment is obtainable from the notice board and the Campusbook.**
- **The academic performance of each student is maintained in the respective Departments which and it is available for students, parents, faculty, HODs, and the Principal, and the same is communicated to parents through posts/SMS**

File Description	Documents
Any additional information	[View File](#)
Link for additional information	https://jecc.ac.in/documents/iqac/2020/2.5.1_Mechanism_Of_Internal_Assessment.pdf

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

College Level:

The internal assessment is completely transparent following the university guidelines strictly.

Internal assessment tests are conducted twice every semester.

Consolidated internal test marks are published on the Department notice board and college website (campus book).

Any grievance on internal marks can be communicated to the faculty. If not resolved, the students can approach the Head of the department and then the institution's Grievance Redressal Committee.

At the end of semester, internal assessment marks are uploaded to the university portal.

As per university norms, 75% attendance is mandatory in each course toattendthe end semester examination. A relaxation upto 60% is available to those with documented medical reasons.

At the university level:

Students can express grievances by following the revaluation procedure:

If the students are unhappy with the final marks, they can apply for revaluation through the examination cell.

The students can obtain a photocopy of their answer sheets.

The revaluation fee is reimbursed by the University if there is an improvement in marks by 15%.

Grievances like missing data in question papers, questions outside the syllabus, toughness of the question paper etc., are communicated to the Controller of Examinations through concerned faculty on the day of examination.

File Description	Documents
Any additional information	[View File](#)
Link for additional information	https://jecc.ac.in/documents/iqac/2020/2.5.2_Mechanism_To_Deal_With_Examination_Related_Grievances.pdf

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 institution has adopted the Outcome Based Education (OBE) in its teaching, learning and evaluation process and strives for continuous improvement.

The Program Outcomes (POs) are defined by National Board of Accreditation (NBA) are common for all programs across departments. The Program Specific Outcomes (PSOs) are framed by the respective department through brainstorming in the Department Academic as well as Advisory Committee. The Course Outcomes (COs) are defined in the syllabus of each subject.

Consequently, Program Outcomes, Program Specific Outcomes, and Course Outcomes for all the programs offered by the institution are stated and displayed on the college website-department wise, from the first year to the fourth year for communicating with teachers, students, and other stakeholders.

Mechanism of Communication:

PO'sand PSO'sfor a particular program are stated displayed and communicated in various ways such as:

1. Communicated in departmental faculty meetings.
2. Displayed in departmental webpage of institutional website , Laboratories, Students Lab Record
3. Displayed in classrooms, Staff rooms, and in the rooms of HOD's.
4. Displayed in the departmental library & notice boards
5. Incorporated in Campus Book
6. Communicated in class committee meeting
7. Course Outcomes are displayed in Lesson plan, Lab records, internal exam question papers and course file.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional information	https://jecc.ac.in/documents/iqac/2020/2.6.1.B-Dissemination_Of_CO_PO_PSO.pdf
Upload COs for all Programmes (exemplars from Glossary)	[View File](#)

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

The institution evaluates its POs and PSOs by the following ways.

1.Direct assessment method

2.Indirect assessment method

DIRECT ASSESSMENT METHOD

The departments under this institution conduct four internal examinations and two assignments to assess the attainment of the course outcomes (CO) and in turn contributes to the attainment of the programme outcomes (PO) and Programme Specific Outcomes (PSO).

Attainment of PO's using direct assessment method is done by calculating the weighted average of COs attained using the CO-PO mapping of all courses.

To facilitate continual improvement in attainment of COs, target levels are set for each CO by the faculty based on the previous student performance and nature of the course.

INDIRECT ASSESSMENT METHOD

PO attainment using the indirect assessment method includes the following ways:

1. Exit Surveys are conducted on the passed out students in each academic year

2. The co-curricular activities of students

3. Feedback obtained from the workshops and seminars conducted to bridge the gapbetween the curriculum and POs.

4. Alumni Survey

The overall PO attainment can be calculated by assigning appropriate weightages to the direct and indirect assessment methods.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://jecc.ac.in/documents/iqac/2020/2.6.2_ADDITIONAL_INFORMATION_LINK.pdf

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

432

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://jecc.ac.in/documents/iqac/2020/2.6.3.B.1_Result_Analysis.pdf

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://jecc.ac.in/iqac/students_satisfactory_survey

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)

5.05

File Description	Documents
Any additional information	View File
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

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

14

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

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

2

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	https://kdisc.kerala.gov.in/

3.2 - Innovation Ecosystem

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

JECC is making a concerted effort to create a veritable infrastructure of learning to catalyse the holistic development of

the student. JEC has established an R & D cell, Incubation and entrepreneur cell, Financial Support system, Innovation Laboratories etc. R&D Cell supports research publication of the faculty in peer reviewed, UGC journals and conference proceedings. IEDC is an active student-run cell under JECC that seeks to promote innovation and entrepreneurship skills among the students. IEDC is a student-run cell that seeks to create and promote innovation and entrepreneurship skills. Fab lab provides a widespread access to modern man of investigation. They began as outreach projects from MIT's Centre for Bits and Atoms (CBA).TBI facilitates incubation of new enterprises with innovative technologies and provides them with physical, technical, managerial and networking support and services.The library provides IP enabled access to E-books from Wiley Online Library and E-Journals in Engineering & Technology.Tech Talk is a series of talks by the staff of JECC in association with Media Catholica, exclusively targeting young researchers to update with recent technologies.JECC aims at imparting crucial job skills through various certificate programmes and also encourages in developing skill development programs.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://jecc.ac.in/consultancy_research

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

4

File Description	Documents
Report of the event	[View File](#)
Any additional information	[View File](#)
List of workshops/seminars during last 5 years (Data Template)	[View File](#)

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

17

File Description	Documents
URL to the research page on HEI website	https://jecc.ac.in/consultancy_research
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

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

47

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

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

49

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

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

The institute's vision is to develop ethical and socially responsible engineers who live and work sustainably and ethically. There have been multifarious activities in the Institute involving the students with the objective of sensitizing about various social issues and strengthening community participation for the holistic development.

Institute is proactive in promoting gender equality. Women's Day, Yoga Day, etc. are also celebrated as part of Gender sensitization programmes. The beneficiaries of Massive Charity Drives involving cash as well as gifts (clothes, food and student materials) were Missionaries of Charity and Bibekananda Bani Prachaar Samity.

Students have been taking part in Swacchh Bharat Abhiyan, an initiative to promote cleanliness within and around the college campus. Over the last 3 years specifically, there have been Voluntary Blood Donation Drives. More than 100 students and faculty from across the college have given blood. Over and above, Students are asked to develop a sense of social responsibility and an attitude to contribute towards societal issues and community problems.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/newsletter
Upload any additional information	View File

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

4

File Description	Documents
Any additional information	View File
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

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

32

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

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

2719

File Description	Documents
Report of the event	View File
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

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

164

File Description	Documents
e-copies of related Document	View File
Any additional information	View File
Details of Collaborative activities with institutions/industries for research, Faculty	View File

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

16

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The institution provides sufficient amenities as per the norms of AICTE and Kerala Technological University. As per the requirement, the management has provided and enhanced the infrastructure of the

institution from time to time.

The institution is spread across 38.36 acres campus with abundant green landscape with 35621.45 m2 built up carpet area and is located in the Thrissur District of Kerala which is easily accessible to the public through train and bus

The institution has 33 class rooms and 5 seminar halls with ICT enabled facilities, 41 Laboratories and a central workshop. The laboratories are equipped with adequate number of equipment and machines. The institution has an auditorium with a seating capacity of 850. The institution has 806 computers, networked through Optical Fibre, Ethernet and Wi-Fi. The institution has upgraded its internet speed to 320 Mbps. The institution has a fully automated library with 12708 titles, 37731 books, 67 printed national journals, 11 printed international journals and 2012 CDs in its inventory along with e-journals and online e- resources.

The institution provides hostel facilities and transportation facility for both students and staff from various locations.

The additional facilities provided by the institution are FAB LAB, IIC, TBI etc

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

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

The role of physical activities such as athletics, games, weight training etc. will be helpful for one's personality development and good health. We have excellent facilities to conduct different sports and games with good standards and it will be a good experience for our students. All these facilities are provided and easily accessible to the students in the college compound.

Football Ground

We have a football field with a measurement of 100-meter length and 70-meter width and inside the field.

Basketball

We have a dedicated Physical Education teacher and one basketball court of 28m X 15m with acrylic fibre glass backboard with safety padding.

Table Tennis

We have some experienced professional players and an ITTF standard table to help the improvement of players in every aspect

Chess

We are giving facilities like chess boards and black and white pieces. Students are practice this game and also doing participation in intercollegiate zonal games.

Handball

The College campus has a handball court with natural grass which is 40 meter in length and 20 meter in width.

Cultural Activities

We have our own Dance Club, Music Club and College band functioning in our college to enhance the student talents in performing arts.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://jecc.ac.in/documents/iqac/2020/4.1.2-Facilities_For_Sports_Games_and_Cultural_Activities_2020_2021.pdf

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

38

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://jecc.ac.in/documents/iqac/photos/?page=class_rooms
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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)

79.30

File Description	Documents
Upload any additional information	**No File Uploaded**
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template	View File

4.2 - Library as a Learning Resource

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

Jyothi Engineering College Central Library is housed in the administrative block spanning 2 floors. The library Consists of

- **91 Subscribed journals**
- **38339 volumes**
- **13018 titles**
- **2060 CD-ROMs**

Library is automated using fully automated with Campus Book Software V1.0 2011. Books are classified according to DDC. The status of a book can be identified by searching Online Public Access Catalogue (OPAC) in the campus book software. A good collection of reference books along with Newspapers.

The library provides IP enabled access to E-books from Wiley Online Library and E-Journals in Engineering & Technology by the following two major publishers

1. IEEE ASPP Online Tier 3 by IEEE
2. Elsevier Engineering+ Computer Science by Elsevier

The library has membership (Membership No. IM-1353) in Developing Library Network(DELNET) which provides access to 3,52,45,416 bibliographic records in the union catalogue of books. The request for inter-library loan can be placed through the online system.

Total Number of Web Courses under NPTEL by IIT Madras - 123

Total Number of Video Courses- under NPTEL by IIT Madras- 291

Library has a membership in National Digital Library of India (NDLI) and e-ShodhSindhu.

JEC Library Digital Repository has been developed with the help of open source software, DSpace (version 1.7.0).

File Description	Documents
Upload any additional information	View File
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- books Databases Remote access toe-resources A. Any 4 or more of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

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)

22.07

File Description	Documents
Any additional information	**No File Uploaded**
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - 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

140

File Description	Documents
Any additional information	View File
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

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

JECC IT Infrastructure includes 806 computers. All are connected to the LAN. We have 2 leased line internet connectivity with total 300 Mbps and also under NMEICT there is 20Mbps internet connectivity. We have Total 44 static IPs available. For assured Security, all departments have their own computer labs and we also have a central computing facility centre where we have 210 computers. JECC is equipped with all necessary computers, projectors, printers etc.

For assured Security, Connectivity and Productivity we have always taken necessary steps from time to time. The campus network is guarded with Sophos 310 XG310 Firewall.

The campus is networked through Optical Fiber, Ethernet and Wi-Fi with 33 Wireless Access Points.

To provide a prompt IT service we have dedicated four IT Spocs to each department. Any IT related issues in a particular department will be tackled by them. Also, in order to track the repair of the systems we have a software application which was developed in-house

Frequency of Update: -

Academic Year 2019-20

- **3 Wireless Access Point are purchased**

Academic Year 2020-21

- **Firewall upgraded to Sophos XG310**
- **50 PCs were purchased with the following configurations –**

Acer Veriton i5-10th Gen, 8GB RAM,256SSD with 19.5inch Monitor

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

4.3.2 - Number of Computers

632

File Description	Documents
Upload any additional information	View File
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

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)

205.7

File Description	Documents
Upload any additional information	**No File Uploaded**
Audited statements of accounts	[View File](#)
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	[View File](#)

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.

Utilization & Maintenance of

Lab

Laboratory sessions are carried out in accordance with the schedule as per the university curriculum plan. Every year,. The final stock verification and inspection report is submitted to the management for follow up action.

Library:

The institution has a Library Committee which monitors the procurement and regular follow ups to ensure effective utilization of library. The final stock verification and inspection report is submitted to the management for follow up action

Sport:

Students are allowed to practice before and after regular class hours. Students are allowed to use the specified indoor and outdoor playing area with the proper equipments providing by the college with a prior permission of physical education teacher. Institute providing Gymnasium with a certified gym trainer on daily basis to the interested students

Computers:

All the departments in the institution are equipped with computer laboratories. Every department in the college has been assigned with a point of contact known as IT spoc to rectify any issue with the PCs.

Classrooms

The classroom allocation in accordance with class time table is done by HOD of that particular department. Maintenance is done by Project office and computer centre.

File Description	Documents
Upload any additional information	View File
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

237

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

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

437

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

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	https://jecc.ac.in/documents/iqac/2020/5.1.3_Consolidated_List.pdf
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

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

242

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

242

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

5.1.5 - The Institution 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

A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	View File

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

165

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

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

56

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	View File
Details of student progression to higher education	View File

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

21

File Description	Documents
Upload supporting data for the same	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

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.

2

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at unive rsity/state/national/international level (During the year) (Data Template)	View File

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)

The college has an active student union consisting of student members elected by class representatives. The constitution of the student union comprises Chairman, Vice Chairperson general secretary, Joint Secretary, Magazine editor, Arts secretary, two UUCs, and year wise representatives. The association is monitored by senior faculty members.The Union Inauguration is Conducted every year and the elected student members will be taking charge for the various posts followed by a cultural fest JyoFest'21 Conducted by College Union. The various Curricular, co-curricular and Extra activities organized by the union which includes Special Lectures,Seminars, Workshops to develop the personality and skills of the students. Eminent speakers and industrialists deliver lectures on topics relevant to the current educational scenario. They also organize cultural festivals like Arts Fest, Christmas Celebration and common national celebrations like Engineers Day. IEDC Plays an Important role in conducting Motivational Talk by Entrepreneurs. Blood Donors Forum of our college conducts the social awareness activities related to blood donation. Selected Students from each department will participate in class committee meetings to analyse the academic performance and common issues of the students.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/iqac/2020/5.3.2_Student_Representation_2020-21.pdf
Upload any additional information	View File

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

5

File Description	Documents
Report of the event	View File
Upload any additional information	View File
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)	View File

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

Jyothi Engineering College hasa registered Alumni Association (JECAA) since 2021. It hasstrong bonding with the alumni ever since the first batch that passed out.Their strong presence in the gulf countries has immensely helped the institution with job offers, admissions, internships and funding prospects for the discerning students. As our institution is almost two decades old, a number of alumni are in top positions in various fields. The alumni are invited for webinars / talks / workshops and these interactive sessions help the current prospective students gain a foot in the door to employability and educational opportunities in India as well as abroad. Every year we are conducting Alumni Meets and maintaining a continuous rapport with alumni members. In connection with this, football matches, film making competitions

and various co-curricular activities are also conducted. Our alumni had over many years supported financially the well deserving students from economically poor background by providing laptops, scholarships, and endowments. Our strong JECAA aims to instil a sense of pride and loyalty in our current students, which lays the motivation as well as reward, for both the alumni and our college.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/iqac/2020/5.4.1_Alumni_Webinars_Talks_2020-21.pdf
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs)

D. 1 Lakhs - 3Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

COLLEGE VISION

Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

COLLEGE MISSION

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programs with state-of-the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

Jyothi Engineering College (JEC) under Trichur Educational Trust founded by the Catholic Archdiocese of Trichur started functioning at Cheruthuruthy in the year 2002.The Management strictly adheres to the recommendations of its Governing Council. The governing council meeting is convened periodically and important aspects of academic and non-academic matters are discussed and decisions are taken to benefit all the stakeholders of the system.

JEC is committed to provide all requirements in curricular and co-curricular areas of Technical Education to our students and mould themto become true professionals of international standards. Faculty members are given representation in various committees/cells nominated by the college cocil, in the Governing body, in the IQAC, and other committees.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/aboutus
Upload any additional information	View File

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

Decentralization

The institution has a mechanism of providing operational autonomy to various functionaries in order to ensure a decentralized governance system.

1.Principal Level

The Principal in consultation with the college council and IQACconstitutes different committees for planning and implementing different academic,administrative and related tasks.

2.Faculty level

Faculty members are given representation in various committees/cells,the Board of Governors, the IQAC and other committees.

3. Student level

The functioning of different secretaries of students' unions

further reinforces decentralization.

Participative management

The institution promotes theparticipative management at the strategic level,functional level and operational levels.

• Strategic level:

The Principal, Board of Governors, College counciland the IQAC are involved in defining policies, framingguidelinespertaining to admission,examination,discipline,grievance,support services,finance,etc.

• Functional level:

Faculty members share knowledge among themselves,students and staff members while working in a committee. Principal and faculty members are involved in joint research and have published papers in reputed journals.

• Operational level:

The Principal interacts with Government,University,AICTE,UGC and external agencies. Faculty members maintain interactions with the concerned departments of the affiliating university. Students and office staff join hands with the Principal and faculty for the execution of academic,co-curricular and extra-curricular activities.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/CollegeHandBook2020-21.pdf
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Jyothi Engineering College (JEC),set up in 2002,under the aegis of Trichur Educational Trust,founded by the Catholic Archdiocese of Trichur,is a leading Engineering College in Kerala.

In 2016, JEC was accredited by NBA for four B. Tech programmes

i.e.,Computer science and Engineering,Electronics and Communication Engineering,Electrical andElectronics Engineering and Mechanical Engineering.In 2019, our Civil Engineering department got NBA accreditation.JEC is also a NAAC accredited institution implying we have a clearly defined process to ensure our desired outcomes are as objective as possible.JEC has recently applied to UGC for Autonomy status.

In line with JEC's stated vision to be an innovation-driven institution,we have setup Integrated Industrial Incubation Centre (IIIC), in association with TATA Technologies. Additionally, we run a Technology Business Incubator (TBI) and a Fabrication lab (FABLAB) primarily for our students.We plan to offer these facilities to the industry located in and around Thrissur and subsequently the entire state of Kerala,especially the MSMEs located in Thrissur/Kerala.Jyothi Engineering College has set up a centre for Innovation and Entrepreneurship Development (IEDC) under the aegis of Kerala Start-up mission with an aim to provide students with a platform for experimentation and innovation.

Jyothi Engineering College's long-term objectives flow from our stated vision and mission.

File Description	Documents
Strategic Plan and deployment documents on the website	[View File](#)
Paste link for additional information	https://jecc.ac.in/documents/CollegeHandBook2020-21.pdf
Upload any additional information	[View File](#)

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.

Organizational Responsiveness

We at Jyothi Engineering College believe that institutional agility is a capability to deal with changes that often arise unexpectedly in our environments. In a volatile environment, where stakeholder needs can change rapidly, decisions should be made quickly. The Jyothi Engineering College management has realized the need to create an agile organization, to face these challenges. As a first step, we identified our key internal and external stakeholder interests. We then specified the pillars on

which our institution rests. Based on identification of stakeholder needs and the pillars that support our edifice, we created a responsive organization structure.

Pillar-stakeholder matrix Pillar Stakeholder Responsibility Academic excellence Students, industry, faculty, competitor Principal Research Faculty, research community, industry, competitor Principal Admissions Jyothi Management, industry, faculty, competitor COO Placements Students, parents, industry, competitor Director Placements Infrastructure Students, employees of Jyothi, competitor Projects Head Faculty, industry, students, competitor Faculty, industry, students, competitor Director QA and Industry Connect Innovation/new initiatives Students, faculty, industry, Jyothi Management, competitor COO Student activities Students, faculty, competitor Vice Principal Quality assurance All internal and external stakeholders, competitor Director QA and Industry Connect

File Description	Documents
Paste link for additional information	https://jecc.ac.in/administration
Link to Organogram of the institution webpage	https://jecc.ac.in/documents/Organogram_2021.pdf
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	View File
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

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

Following are the welfare measures:

Teaching: Staff Club, Medical Leave, Gratuity, StudyLeave, Maternity Leave

Medical Leave:

All staff members are eligible for medical leave @ 12 days for every completed year of service after the probation period.

Maternity Leave:

All women employees are entitled to maternity leave for a period of 90 days. Complete monthly salary and benefits shall be paid during the period of maternity leave.

Study Leave:

Study leave shall ordinarily be granted only to the faculty who have completed at least 3 years of service.

Non-teaching: ESI, Staff Club, Medical Leave, Provident Fund,Maternity Leave

Provident Fund:

JECis committed to complying with statutory provisions of Employees Provident Fund Deduction will be made from the salary of employees and will be deposited to the designated provident fund accounts along with the contribution of the organization as per the provisions of the said Act.

ESI: ESI Scheme is related to the paying capacity as a fixed percentage of the worker's wages, whereas, they are provided social security benefits according to individual needs without distinction.

Gratuity: Gratuity is given to an employee who has worked in the college for over five years.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/HR_MANUAL_V4.pdf
Upload any additional information	View File

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

3

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

6.3.3 - Number of professional development /administrative training 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).	View File
Reports of Academic Staff College or similar centers	View File
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

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

75

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	View File
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

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

Our Appraisal system is an attempt to standardize the system,taking note of the various activities and rendering credit to each of the efforts.The objective at the back of this is to evaluate everything that is done for the college community and to

encourage and appreciate the same.

In an effort to recognize and reward the performance of employees, it is the organization's philosophy that the principal component to enhance compensation shall be through annual increments based on performance evaluations. All regular employees are eligible for yearly increments based on the results of their Performance Appraisal conducted annually. Employees are informed in writing about their annual increments after the Performance Appraisal.

Jyothi has incorporated the innovative practice of making the appraisal process foolproof and comprehensive.The appraisal system accommodates every activity each one undertakes with clear weightage and credit points. This is an exercise to acknowledge and appreciate each one's hard work and contributions to our college community which in turn, will encourage all to engage in more creative and productive activities.

A brief note on this review and related counseling provided shall be prepared and signed by both the employee and the HOD/Principal and maintained in the employee's personal file.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/HR_MANUAL_V4.pdf
Upload any additional information	View File

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

Internal Audit

The internal audit is done by an in-house team and will carry out the accounting procedure of internal control of finance on a day-to-day basis. Since the institution follows a good system of internal control like calling quotations, comparison of rates, preparation of purchase order for each and every requirement needed, preparation of wage sheets, all the employee benefits are vouched for conducting and participating in conferences, faculty development programs,etc.No expenses are incurred without proper approval or sanction by the head of the institution or head of the

various departments.

External Audit

The institution also has an external audit mechanism carried out by Abraham and Jose Chartered Accountants.This statutory auditor audits the annual account and examines on a test basis evidence like fees collection with the approved list of students on such verification any discrepancies will be discussed and sorted out with the management. Once all financial transactions are accounted for, based on those financial statements like balance sheet and Income and Expenditure Statement are prepared for the financial year.Such financial statements will be signed and approved by the Auditor and Management. Based on the audited financial statements, the auditor will issue a Final Audit Report.

File Description	Documents
Paste link for additional information	https://www.jecc.ac.in/documents/Financial _Statement.pdf
Upload any additional information	View File

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)

0.45

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

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

Jyothi Engineering College is a private self-financing Engineering College and it has only limited scope for raising funds. The institution doesn't have either grants or aid from the Government

or University. It is the responsibility of the Management of Jyothi Engineering College to find out the source of financial resources.

The important source of financial resources is the student fee collection. The state fee regulatory commission has decided the fee structure of the B. Tech program and the college is collecting fees based on the guidelines of the fee regulatory commission and within the framework of the agreement signed between the Government of Kerala and Kerala Catholic Engineering College Management Association. The surplus of the fee income is used for the development of the college.

Jyothi Engineering College has been utilizing its various resources for various activities since its inception. One of the main resources that have been utilized in this institution is the Computer Centre.For the last five years, these have been used for various exams and training like GATE, JIPMER, RRB, SBI, TCS iON, CUSAT, JEE, JNU, ICAR, UGC NET, CSIR,ICAI CAT, etc. Many students and trainees have benefited from this for the last few years.

File Description	Documents
Paste link for additional information	https://www.jecc.ac.in/documents/Financial _Statement.pdf
Upload any additional information	View File

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

The institution has an active IQAC committee that looks into the proper functioning and quality of output of the different activities undertaken.Threesets of question papers are presented for internal examinations from which the IQAC can select one for any given exam.

The R&D departmentis formed to encourage innovation and to harmonize the research activities of the various disciplines in the institute.R&D takes every initiative to support and encourage faculty members to apply for research projects to different funding agencies (Govt./Non-Govt.), for Research Promotion Scheme,and other projects. Initiatives are taken to organize different Faculty Development Programs,Technical Workshops,

National and International Conferences for thetransfer of knowledge among the students and faculty members. R&D supports research publication of the faculty in peer-reviewed, UGC-approved journals and conference proceedings. Financial support & rewards are offered to those faculty who present papers in National and International Conferences and Seminars and to those who publish papers in reputed National and International Journals. R&D initiated Jyothi Research Fellowship programs to encourage Talented Graduates to be a part of research activities in the State-of-the-art facility for design, prototype development, testing, implementation, and technical documentation – Conference / Journal papers / IPR.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/iqac
Upload any additional information	View File

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

The R&D department of JEC consists of eminent faculty and academicians topromote the research activities on the campus. There are faculty members with guideship and several research scholars are pursuing Ph.D. under their guideship. Many faculty members of JEC are doing Ph.D. on a full-time/ part-time basis. The number of faculty members with Ph.D. has increased over the years. R&D supports research publication of the faculty in peer-reviewed, UGC-approved journals and conference proceedings. Financial support & rewards are offered to those faculty who present papers in National and International Conferences and Seminars and to those who publish papers in reputed National and International Journals.

The College has various Add-On Certificate Courses that have been started to enhance and enrich the students' learning experience in the College. This ensures a holistic approach to learning and develops the necessary skills for various vocations and careers. Add-On courses are aligned with the KTU academic calendar. Colleges have the flexibility to suggest new courses as the job market needs to dictate, and also advice from industry is taken into account.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/consultancy_research
Upload any additional information	View File

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)

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://jecc.ac.in/iqac/annual_reports
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

JECC ensures safety measures in different perspects. Women Development Cell (WDC) in JECC named as"SANSKRITHI" acts as a forum for providing self-empowerment of girl students and lady faculties, to take care of the problems and matters related to them and to empower them in the society. Every year WDC conducts a variety of events for the upliftment of women and to spread the importance of gender equality in society. No one is allowed to enter the campus without a valid ID card. In order to prevent any adverse events, the campus and hostels are monitored by CCTV 24 x 7. For each laboratory course, a laboratory manual explaining Do's and Don'ts has been prepared to ensure a peaceful and sustainable

laboratory environment for students and teachers. To ensure everyone's safety, fire extinguishers and first-aid kits have been positioned in prime areas of the campus.

Counselling: The recent adult behavior by the students creates a lot of anxiety among parents and society. To overcome this counselling sessions separately for boys and girls are arranged by renowned counsellors.

Common Restrooms: The College has well-furnished rest rooms for boys and girls which are used by them when they need any physical rest.

File Description	Documents
Annual gender sensitization action plan	https://jecc.ac.in/documents/iqac/2020/7.1.1_B_Annual_Gender_Sensitization_Action_Plan.pdf
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	https://jecc.ac.in/documents/iqac/2020/7.1.1_A_Specific_Facilities_Provided_For_Women.pdf

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. Any 3 of the above

File Description	Documents
Geo tagged Photographs	[View File]()
Any other relevant information	[View File]()

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

Jyothi Engineering College is strongly committed to waste management and strongly advocates conservation of resources, to generate minimal waste and manage it from its inception to its

final disposal. Segregation of waste at source is administered for effective waste management strategy- Reduce, Reuse and Recycle.

Solid Waste Management

The solid waste generated in the campus and hostels including wrappers, metals, paper and plastics are collected and segregated into different types of bio and non-biodegradable waste and disposed of accordingly. The processed food waste is sent to piggeries periodically. Most of the official communications like notices, minutes are shared through WhatsApp or e-mails.

Liquid Waste Management

The institution is a forerunner in educating young minds by organising events like World Water Day each year on relevant themes, to reinforce the idea of valuing and conserving water. Liquid waste or sullage generated in the institution is treated and disposed of into soak pits.

E-waste management

The institute gives diligent importance to E-waste management by ensuring that electronic goods are put to optimum use; the minor repairs and periodic maintenance is assured by the technical staff and the Laboratory assistants; the rest of the e-wastes are collected by an e-waste collection agency.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

1. **Restricted entry of automobiles**
2. **Use of bicycles/ Battery-powered vehicles**
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

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

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

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. Any 3 of the above

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

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

C. Any 2 of the above

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

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

The Institution shows immense pleasure and responsibility in the aspect of tolerance and harmony in the fields of cultural, regional, linguistic, communal socio-economic and other diversities. With the precise inputs of Management and Principal, the Institution is conducting initiatives and programmes within

the campus to achieve an inclusive environment for all the students and staff. By conducting such events and celebrations, the students learn experience and cultivate social responsibility, and inculcate interpersonal and intrapersonal skills through participation.

Students from outside the state are encouraged to join the college and such students are required to meet the Principal in person and seek admission.

Efficient faculty members from outside the state are also welcomed to the Institute.

Institute is keen on helping the meritorious and financially backward students. Different slabs on the basis of the KEAM rank are formed right from the formation of the Institution. The Institution has been kind enough to spend a large amount as scholarship every year to these students.

Institute has the regular practice of conducting various events/activities in order to alleviate socio economic barriers among the students and staff members even in the pandemic period of Covid 19.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	No File Uploaded

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

Civic duties are not only restricted to books for children but it is a foundation on which the future of any country rests. College should leave no stone unturned to make it interesting for students so that they are compelled to implement the learning in their lives. The best way to inculcate the importance of civic duties in students is by imbibing patriotic values. Every year the Institute celebrates Republic Day, and Independence Day on January 26 and August 15 respectively. The celebrations were attended by

Students, Teaching and Non-teaching Staff, Invitees, guests and any attendees. Flag hosting with the National anthem and oath of national integrity followed by distribution of sweets is the regular decorum of the programme.

Students consistently and regularly participate in the cleaning activities. The programme initiates with Preamble reading of the constitution followed by lectures on the sensitization of students on responsibility towards the constitutional values, rights, duties and responsibilities of citizens. Students are encouraged to rebuild homes, mask making, book collection, cloth bag distribution, and awareness campaigns for blood donation are done in this pandemic period.

https://jecc.ac.in/documents/iqac/2020/7.1.9_Sensitization_of_Stud ents_and_Employees_of_the_Institution.pdf

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://jecc.ac.in/documents/iqac/2020/7.1.9_Sensitization_of_Students_and_Employees_of_the_Institution.pdf
Any other relevant information	https://jecc.ac.in/documents/iqac/2020/7.1.9_Sensitization_of_Students_and_Employees_of_the_Institution.pdf

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 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   A. All of the above

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	**No File Uploaded**

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

College makes high efforts and importance to celebrate national and international days. International Days are celebrated to mark important aspects of human life and history. Every year the college celebrates Independence Day, Republic day with flag hoisting. Every year the college celebrates national science day with invited talk from eminent persons. The main objective of National Science Day is to bring awareness to students about the importance of science in our daily life. Every year natura(Environmental forum in college) celebrates the environmental day in college in an auspicious way. The programme initiates with Preamble reading of the constitution followed by lectures on the sensitization of students on responsibility towards the constitutional values, rights, duties and responsibilities of citizens. Institute celebrates International commemorative days like Engineer's Day, Teacher's Day, World Palliative care Day, World Environment Day, World Nature Day. International days are celebrated to educate and aware the students on issues of concern to address global problems. Institution organizes various activities for students to create awareness among the students

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

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

1. **Social and Technical activities through Centre for Water Research and Education**

- To provide services and to educate the public towards the water issues with focus on maintenance of domestic water sources.

- For the benefit of the society our college is providing free website information to the people on water and sanitation. As part of CWRE, water sample testing is carried out.

- Water samples from local communities are taken and remedial measures are provided

- Number of samples are increasing every year

- CWRE received numerous requests for the water quality checking. Collection and Analysis of numerous water samples is the major issue.

1. **Revamped Teaching Learning (RTL) Process**

- Enrichment of students skillset imposed to identify & solve problems. Networking with parents and peers to observe students' progress.

- **In multidisciplinary environments, student-centered learning and methodical mentoring is necessary to attain their objectives.**

- **Practices followed are Mentoring(To improve the students academic performance), English Proficiency Test, Project Based Learning(practical and system development capabilities by Add- on courses)**

- **Enrichment of the skill set of student's programs imparts confidence among the students for qualifying competitive exams.**

- **For the exploration and development Students should take project-based learning seriously**

- **https://jecc.ac.in/documents/iqac/2020/7.2_Best_Practice_1.pdf**

- **https://jecc.ac.in/documents/iqac/2020/7.2_Best_Practice_2.pdf**

File Description	Documents
Best practices in the Institutional website	https://jecc.ac.in/documents/iqac/2020/7.2_Best_Practice_1.pdf
Any other relevant information	https://jecc.ac.in/documents/iqac/2020/7.2_Best_Practice_2.pdf

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

Integrated Industrial Incubation Centre (IIIC)

Jyothi Engineering College signed an MoU with Tata Technologies Ltd, to establish an Integrated Industrial Incubation Centre (IIIC), the 6th in India and the first in South India.

We prepare students to become T-Shaped professionals. The vertical

bar on the T-shaped person is an indication of the depth of knowledge and skills in their chosen engineering stream whereas the horizontal bar represents the person's competencies in interdisciplinary areas and life skills. This contextual knowledge helps in giving students a broader perspective. T-shaped skills – or a T-shaped person – has qualities that make that employee valuable; they possess excellent knowledge and skills in specific areas and are good at working with others in a collaborative way.

In order to train our students, we have set up an incubation Center, Integrated Industrial Incubation Centre (IIIC), in association with TATA Technologies.

IIIC offers 120 hours training for various courses in association with TATA Technologies

After successful completion of all modules of a particular course, the eligible student will be awarded a certificate of achievement.

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

The college follows curriculum prepared by APJ Abdul Kalam Technological University to which the college is affiliated practices a significant degree of decentralization and its academic administration is organised in the form of clusters which has significant autonomy in designing and developing curriculum.This college has devised various strategies to ensure outcome based learning and for strengthening our teaching learning process. These are mentioned below,

- **Class / Course / Advisory Committee**
- **Course delivery as per lesson plan**

- **Student's feedback.**
- **PTA meetings**
- **Course files preparation**

- **Class wise Students Mentoring system**
- **The academic calendar, semester plan and time table are circulated andlesson plans are prepared.**
- **To maintain quality, the internal exam question papers are approved by IQAC before sending it to exam cell.**
- **The central /department/digital libraries with e-books is available to both students and faculty members.**
- **Language Lab, Fab lab, Startup Center, IIIC, Technolgy Businesss Incubator, facilites areavailable forboth students and faculty members.**
- **Various FDPs on recent updates in technology conducted by eminent experts from the academic and industrial fields.**
- **Add-on/ NPTEL courses/ Invited talks/ MOOC courses/Webinars help the students to get sound information about the recent activities in the world and can thus improve their skills.**

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	https://jecc.ac.in/documents/iqac/2020/1.1.1_Additional_Documents.pdf

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

As quality enhancement is a continuous process, the Internal Quality Assurance Cell (IQAC) will become a part of an Institution's system and work towards realizing the goals of quality enhancement and sustenance. The prime task of IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of institutions.

IQAC will make a significant and meaningful contribution in the post accreditation phase of institutions. During post accreditation period, IQAC will channelize the efforts and measures of an institution towards academic excellence.

The primary aim of IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution and to promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

IQAC evolves mechanisms and procedures for

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks.
- The relevance and quality of academic and research programmes.
- Equitable access to and affordability of academic programmes for various sections of society.
  - Optimization and integration of modern methods of teaching and learning.
  - The credibility of evaluation procedures.
  - Ensuring the adequacy, maintenance and proper allocation of support structure and services

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://www.jecc.ac.in/iqac

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 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	**B. Any 3 of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

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

18

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

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)

7

File Description	Documents
Any additional information	[View File](#)
Brochure or any other document relating to Add on /Certificate programs	[View File](#)
List of Add on /Certificate programs (Data Template)	[View File](#)

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

285

File Description	Documents
Any additional information	[View File](#)
Details of the students enrolled in Subjects related to certificate/Add-on programs	[View File](#)

1.3 - Curriculum Enrichment

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

Jyothi Engineering College has taken impressive efforts to integrate cross cutting issues such as Gender, Environment and Sustainability, Human values and Professional Ethics wherever possible into curriculum and more often by other indirect means.

Gender:

Gender equality, equality between men and women, entails the concept that all human beings, both men and women, are free to develop their personal abilities and make choices without limitations set by stereotypes, rigid gender roles and prejudices.

- **Jyothi ensures that equal opportunity is given to both genders in terms of admissions.**

- Women Development Cell (WDC).
- Institution ensures equal representation of students (both genders) in students union, course committee, class committee etc.

Environment and Sustainability:

The following are some initiatives towards integrating environment ans sustainability into curriculum:

- Natura Club
- Centre for Water Research and Education(CWRE)
- Rain water harvesting facility with a pond of size 50m x 20m x 10m storage capacity.
- Grid connected Solar roof panel of 63.7kW power supply.

Human Values and Professional Ethics:

Jyothi is committed to provide quality education in engineering and technology, to transform the youth into committed technical personal for the social and economical well being of the nation with integral development of the personality and character building.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

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

354

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	View File
Institutional Data in Prescribed Format	View File

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

618

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni	A. All of the above

File Description	Documents
URL for stakeholder feedback report	https://jecc.ac.in/campusbook/ktu_feedbacks
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows	**B. Feedback collected, analyzed and action has been taken**

File Description	Documents
Upload any additional information	View File
URL for feedback report	https://jecc.ac.in/campusbook/ktu_feedbacks

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

429

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

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

74

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

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

The institution has an effective student centric mechanism for continuous monitoring and evaluation of the students' performance for both slow and advanced learners.

Advanced learners

Advanced learners are encouraged, motivated and advised by the staff members to excel in their academics by providing them with all the support needed.

The following special programs are carried out to encourage advanced learners to enhance their overall personality development.

- University Toppers are felicitated for academic excellence.
- Encouraged to join B. Tech Honours and additional certification programmes.
- Motivated to carry out innovative projects and to participate in various events.
- Encouraged to publish papers in Conferences and Journals.
- Motivation through Scholarships.

Slow learners

The Institute practices a robust student academic counselling process to encourage slow learners for better performance.

The following special programs are carried out.

- The institution has an effective mentoring system to identify the nature of their problems.
- Remedial classes are provided for slow learners.
- Faculty members prepare a university question bank for each subject and discuss ways of presenting answers in

> the university examination.
- Parents are intimated the progress of their wards on regular basis by the class tutors

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/iqac/2020/2.2.1_Catering_To_Student_Diversity_Additional_Information.pdf
Upload any additional information	View File

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

Number of Students	Number of Teachers
2436	124

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

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

The institution has adopted a multi-pronged approach through which students are future ready to face professional life challenges using the methodologies stated below.

EXPERIENTIAL LEARNING

Project works and Workshops are concrete experiences where students understand the responsibility of the engineering profession and it provides an opportunity for them to improve technical skills and gives practical exposure.

The talks by both academic and industrial experts are arranged for students so as to update their knowledge and to bridge the gap between the industry and academia.

PARTICIPATIVE LEARNING

Students are encouraged to explore knowledge through seminars for participative learning. Various professional bodies conduct

technical events to explore the technical skills of the learners.

Students are encouraged to involve in various certification courses thereby facilitating independent learning. The career guidance program are provided by the Placement Department Cell to enhance the overall personality development of students.

PROBLEM SOLVING METHODOLOGIES

Students are encouraged to improve their problem solving skills by participating in project contests, Hackathons and coding competitions. JECC follows the discussion method in many of the subjects as it makes the students to think wide and participate by coming up with opinions & suggestions to check their current knowledge.

File Description	Documents
Upload any additional information	[View File](View_File)
Link for additional information	https://jecc.ac.in/documents/iqac/2020/2.3.1_Student_Centric_Method.pdf

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

JECC usesICT enabled toolsfor: effective teaching - learning process, to implement new teaching techniques, to help students work collaboratively in the learning process. Teachers use different trusted online resources to enhance teaching-learning process.

The following methods are adopted in the institution:

1. The use of multimedia teaching aids by the faculty like LCD projectors, videos, PPTs, simulations in classrooms creates the best learning environment. The Google classroom is used to manage and post course related information.

2. The classrooms and laboratories are equipped with LCD projectors, computer facility, laptop connecting facility and UPS.

3. The faculty members use resources such as e-books, technical

magazines and journals to keep the students actively involved in the classroom session.

4. The college has provided internet and Wi-Fi facility with 300 Mbps internet band width for students and faculty.

5. The institution has a specialized computer laboratory and a digital library, which helps the students to access various lectures and study materials.

6. MAC-ID based Wi-Fi facility for access to the internet is provided on individual laptop and mobile devices.

7. All academic related activities are made available in the campus automation software Campusbook which can be assessed by students.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

73

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

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

124

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

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

38

File Description	Documents
Any additional information	View File
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)	View File

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

971

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

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 following actions are taken for the transparent and robust evaluation of the students:

- Academic calendar is prepared as per the university calendar for every semester that includes the schedule for internal assessment.
- Notifications from the university regarding the assessment are circulated among students, faculty, and staff through notice boards and website of the Institute (campus book).
- As per the regulations of affiliating university, two internal assessments are conducted every semester and the schedule is communicated to the students.
- The internal assessment question paper pattern has been standardized by IQAC.
- 3 sets of question papers are prepared for each subject based on Course outcomes and are approved by HODs. The IQAC selects one for the internal assessment.
- Answer scripts are returned within a week from the exam date and the student can approach the teachers for any clarifications.
- The mark list for Internal Assessment is obtainable from the notice board and the Campusbook.
- The academic performance of each student is maintained in the respective Departments which and it is available for students, parents, faculty, HODs, and the Principal, and the same is communicated to parents through posts/SMS

File Description	Documents
Any additional information	View File
Link for additional information	https://jecc.ac.in/documents/iqac/2020/2.5.1_Mechanism_Of_Internal_Assessment.pdf

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

College Level:

The internal assessment is completely transparent following the university guidelines strictly.

Internal assessment tests are conducted twice every semester.

Consolidated internal test marks are published on the

Department notice board and college website (campus book).

Any grievance on internal marks can be communicated to the faculty. If not resolved, the students can approach the Head of the department and then the institution's Grievance Redressal Committee.

At the end of semester, internal assessment marks are uploaded to the university portal.

As per university norms, 75% attendance is mandatory in each course toattendthe end semester examination. A relaxation upto 60% is available to those with documented medical reasons.

At the university level:

Students can express grievances by following the revaluation procedure:

If the students are unhappy with the final marks, they can apply for revaluation through the examination cell.

The students can obtain a photocopy of their answer sheets.

The revaluation fee is reimbursed by the University if there is an improvement in marks by 15%.

Grievances like missing data in question papers, questions outside the syllabus, toughness of the question paper etc., are communicated to the Controller of Examinations through concerned faculty on the day of examination.

File Description	Documents
Any additional information	[View File](#)
Link for additional information	[https://jecc.ac.in/documents/iqac/2020/2.5.2_Mechanism_To_Deal_With_Examination_Related_Grievances.pdf](#)

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 institution has adopted the Outcome Based Education (OBE)

in its teaching, learning and evaluation process and strives for continuous improvement.

The Program Outcomes (POs) are defined by National Board of Accreditation (NBA) are common for all programs across departments. The Program Specific Outcomes (PSOs) are framed by the respective department through brainstorming in the Department Academic as well as Advisory Committee. The Course Outcomes (COs) are defined in the syllabus of each subject.

Consequently, Program Outcomes, Program Specific Outcomes, and Course Outcomes for all the programs offered by the institution are stated and displayed on the college website-department wise, from the first year to the fourth year for communicating with teachers, students, and other stakeholders.

Mechanism of Communication:

PO'sand PSO'sfor a particular program are stated displayed and communicated in various ways such as:

1. Communicated in departmental faculty meetings.
2. Displayed in departmental webpage of institutional website , Laboratories, Students Lab Record
3. Displayed in classrooms, Staff rooms, and in the rooms of HOD's.
4. Displayed in the departmental library & notice boards
5. Incorporated in Campus Book
6. Communicated in class committee meeting
7. Course Outcomes are displayed in Lesson plan, Lab records, internal exam question papers and course file.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://jecc.ac.in/documents/iqac/2020/2.6.1.B-Dissemination_Of_CO_PO_PSO.pdf
Upload COs for all Programmes (exemplars from Glossary)	View File

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

The institution evaluates its POs and PSOs by the following ways.

1.Direct assessment method

2.Indirect assessment method

DIRECT ASSESSMENT METHOD

The departments under this institution conduct four internal examinations and two assignments to assess the attainment of the course outcomes (CO) and in turn contributes to the attainment of the programme outcomes (PO) and Programme Specific Outcomes (PSO).

Attainment of PO's using direct assessment method is done by calculating the weighted average of COs attained using the CO-PO mapping of all courses.

To facilitate continual improvement in attainment of COs, target levels are set for each CO by the faculty based on the previous student performance and nature of the course.

INDIRECT ASSESSMENT METHOD

PO attainment using the indirect assessment method includes the following ways:

1. Exit Surveys are conducted on the passed out students in each academic year

2. The co-curricular activities of students

3. Feedback obtained from the workshops and seminars conducted to bridge the gapbetween the curriculum and POs.

4. Alumni Survey

The overall PO attainment can be calculated by assigning appropriate weightages to the direct and indirect assessment methods.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional information	https://jecc.ac.in/documents/iqac/2020/2.6.2_ADDITIONAL_INFORMATION_LINK.pdf

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

432

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	[View File](#)
Upload any additional information	[View File](#)
Paste link for the annual report	https://jecc.ac.in/documents/iqac/2020/2.6.3.B.1_Result_Analysis.pdf

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://jecc.ac.in/iqac/students_satisfactory_survey

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)

5.05

File Description	Documents
Any additional information	View File
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

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

14

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

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

2

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	https://kdisc.kerala.gov.in/

3.2 - Innovation Ecosystem

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

JECC is making a concerted effort to create a veritable infrastructure of learning to catalyse the holistic development of the student. JEC has established an R & D cell, Incubation and entrepreneur cell, Financial Support system, Innovation Laboratories etc. R&D Cell supports research publication of the faculty in peer reviewed, UGC journals and conference proceedings. IEDC is an active student-run cell under JECC that seeks to promote innovation and entrepreneurship skills among the students. IEDC is a student-run cell that seeks to create and promote innovation and entrepreneurship skills. Fab lab provides a widespread access to modern man of investigation. They began as outreach projects from MIT's Centre for Bits and Atoms (CBA).TBI facilitates incubation of new enterprises with innovative technologies and provides them with physical, technical, managerial and networking support and services.The library provides IP enabled access to E-books from Wiley Online Library and E-Journals in Engineering & Technology.Tech Talk is a series of talks by the staff of JECC in association with Media Catholica, exclusively targeting young researchers to update with recent technologies.JECC aims at imparting crucial job skills through various certificate programmes and also encourages in developing skill development programs.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://jecc.ac.in/consultancy research

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

4

File Description	Documents
Report of the event	View File
Any additional information	View File
List of workshops/seminars during last 5 years (Data Template)	View File

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

17

File Description	Documents
URL to the research page on HEI website	https://jecc.ac.in/consultancy_research
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

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

47

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

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

49

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

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

The institute's vision is to develop ethical and socially responsible engineers who live and work sustainably and ethically. There have been multifarious activities in the Institute involving the students with the objective of sensitizing about various social issues and strengthening community participation for the holistic development.

Institute is proactive in promoting gender equality. Women's Day, Yoga Day, etc. are also celebrated as part of Gender sensitization programmes. The beneficiaries of Massive Charity Drives involving cash as well as gifts (clothes, food and student materials) were Missionaries of Charity and Bibekananda Bani Prachaar Samity.

Students have been taking part in Swacchh Bharat Abhiyan, an initiative to promote cleanliness within and around the college campus. Over the last 3 years specifically, there have been Voluntary Blood Donation Drives. More than 100 students and faculty from across the college have given blood. Over and above, Students are asked to develop a sense of social responsibility and an attitude to contribute towards societal issues and community problems.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/newsletter
Upload any additional information	View File

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

4

File Description	Documents
Any additional information	View File
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

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

32

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

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

2719

File Description	Documents
Report of the event	View File
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

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

164

File Description	Documents
e-copies of related Document	View File
Any additional information	View File
Details of Collaborative activities with institutions/industries for research, Faculty	View File

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

16

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

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The institution provides sufficient amenities as per the norms of AICTE and Kerala Technological University. As per the requirement, the management has provided and enhanced the

infrastructure of the institution from time to time.

The institution is spread across 38.36 acres campus with abundant green landscape with 35621.45 m2 built up carpet area and is located in the Thrissur District of Kerala which is easily accessible to the public through train and bus

The institution has 33 class rooms and 5 seminar halls with ICT enabled facilities, 41 Laboratories and a central workshop. The laboratories are equipped with adequate number of equipment and machines. The institution has an auditorium with a seating capacity of 850. The institution has 806 computers, networked through Optical Fibre, Ethernet and Wi-Fi. The institution has upgraded its internet speed to 320 Mbps. The institution has a fully automated library with 12708 titles, 37731 books, 67 printed national journals, 11 printed international journals and 2012 CDs in its inventory along with e-journals and online e- resources.

The institution provides hostel facilities and transportation facility for both students and staff from various locations.

The additional facilities provided by the institution are FAB LAB, IIC, TBI etc

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	Nil

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

The role of physical activities such as athletics, games, weight training etc. will be helpful for one's personality development and good health. We have excellent facilities to conduct different sports and games with good standards and it will be a good experience for our students. All these facilities are provided and easily accessible to the students in the college compound.

Football Ground

We have a football field with a measurement of 100-meter length

and 70-meter width and inside the field.

Basketball

We have a dedicated Physical Education teacher and one basketball court of 28m X 15m with acrylic fibre glass backboard with safety padding.

Table Tennis

We have some experienced professional players and an ITTF standard table to help the improvement of players in every aspect

Chess

We are giving facilities like chess boards and black and white pieces. Students are practice this game and also doing participation in intercollegiate zonal games.

Handball

The College campus has a handball court with natural grass which is 40 meter in length and 20 meter in width.

Cultural Activities

We have our own Dance Club, Music Club and College band functioning in our college to enhance the student talents in performing arts.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://jecc.ac.in/documents/iqac/2020/4.1.2-Facilities_For_Sports_Games_and_Cultural_Activities_2020_2021.pdf

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

38

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://jecc.ac.in/documents/iqac/photos/?page=class_rooms
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View File](#)

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)

79.30

File Description	Documents
Upload any additional information	**No File Uploaded**
Upload audited utilization statements	[View File](#)
Upload Details of budget allocation, excluding salary during the year (Data Template	[View File](#)

4.2 - Library as a Learning Resource

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

Jyothi Engineering College Central Library is housed in the administrative block spanning 2 floors. The library Consists of

- 91 Subscribed journals
- 38339 volumes
- 13018 titles
- 2060 CD-ROMs

Library is automated using fully automated with Campus Book Software V1.0 2011. Books are classified according to DDC. The status of a book can be identified by searching Online Public Access Catalogue (OPAC) in the campus book software. A good collection of reference books along with Newspapers.

The library provides IP enabled access to E-books from Wiley Online Library and E-Journals in Engineering & Technology by the following two major publishers

1. IEEE ASPP Online Tier 3 by IEEE
2. Elsevier Engineering+ Computer Science by Elsevier

The library has membership (Membership No. IM-1353) in Developing Library Network(DELNET) which provides access to 3,52,45,416 bibliographic records in the union catalogue of books. The request for inter-library loan can be placed through the online system.

Total Number of Web Courses under NPTEL by IIT Madras - 123

Total Number of Video Courses- under NPTEL by IIT Madras- 291

Library has a membership in National Digital Library of India (NDLI) and e-ShodhSindhu.

JEC Library Digital Repository has been developed with the help of open source software, DSpace (version 1.7.0).

File Description	Documents
Upload any additional information	View File
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-books Databases Remote access toe-resources	A. Any 4 or more of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

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)

22.07

File Description	Documents
Any additional information	**No File Uploaded**
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - 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

140

File Description	Documents
Any additional information	View File
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

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

JECC IT Infrastructure includes 806 computers. All are connected to the LAN. We have 2 leased line internet connectivity with total 300 Mbps and also under NMEICT there is 20Mbps internet connectivity. We have Total 44 static IPs available. For assured Security, all departments have their own computer labs and we also have a central computing facility centre where we have 210 computers. JECC is equipped with all necessary computers, projectors, printers etc.

For assured Security, Connectivity and Productivity we have always taken necessary steps from time to time. The campus network is guarded with Sophos 310 XG310 Firewall.

The campus is networked through Optical Fiber, Ethernet and Wi-

Fi with 33 Wireless Access Points.

To provide a prompt IT service we have dedicated four IT Spocs to each department. Any IT related issues in a particular department will be tackled by them. Also, in order to track the repair of the systems we have a software application which was developed in-house

Frequency of Update: -

Academic Year 2019-20

- 3 Wireless Access Point are purchased

Academic Year 2020-21

- Firewall upgraded to Sophos XG310
- 50 PCs were purchased with the following configurations –

Acer Veriton i5-10th Gen, 8GB RAM,256SSD with 19.5inch Monitor

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

4.3.2 - Number of Computers

632

File Description	Documents
Upload any additional information	View File
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution	A. ? 50MBPS

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

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)

205.7

File Description	Documents
Upload any additional information	**No File Uploaded**
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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.

Utilization & Maintenance of

Lab

Laboratory sessions are carried out in accordance with the schedule as per the university curriculum plan. Every year,. The final stock verification and inspection report is submitted to the management for follow up action.

Library:

The institution has a Library Committee which monitors the procurement and regular follow ups to ensure effective utilization of library. The final stock verification and inspection report is submitted to the management for follow up

action

Sport:

Students are allowed to practice before and after regular class hours. Students are allowed to use the specified indoor and outdoor playing area with the proper equipments providing by the college with a prior permission of physical education teacher. Institute providing Gymnasium with a certified gym trainer on daily basis to the interested students

Computers:

All the departments in the institution are equipped with computer laboratories. Every department in the college has been assigned with a point of contact known as IT spoc to rectify any issue with the PCs.

Classrooms

The classroom allocation in accordance with class time table is done by HOD of that particular department. Maintenance is done by Project office and computer centre.

File Description	Documents
Upload any additional information	[View File](#)
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

237

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

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

437

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

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	https://jecc.ac.in/documents/iqac/2020/5.1.3_Consolidated_List.pdf
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

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

242

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

242

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

5.1.5 - The Institution 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

A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	View File

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

165

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

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

56

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	View File
Details of student progression to higher education	View File

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

21

File Description	Documents
Upload supporting data for the same	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

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.

2

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

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)

The college has an active student union consisting of student members elected by class representatives. The constitution of the student union comprises Chairman, Vice Chairperson general secretary, Joint Secretary, Magazine editor, Arts secretary, two UUCs, and year wise representatives. The association is monitored by senior faculty members.The Union Inauguration is Conducted every year and the elected student members will be taking charge for the various posts followed by a cultural fest JyoFest'21 Conducted by College Union. The various Curricular, co-curricular and Extra activities organized by the union which includes Special Lectures,Seminars, Workshops to develop the personality and skills of the students. Eminent speakers and industrialists deliver lectures on topics relevant to the current educational scenario. They also organize cultural festivals like Arts Fest, Christmas Celebration and common national celebrations like Engineers Day. IEDC Plays an Important role in conducting Motivational Talk by Entrepreneurs. Blood Donors Forum of our college conducts the social awareness activities related to blood donation. Selected

Students from each department will participate in class committee meetings to analyse the academic performance and common issues of the students.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/iqac/2020/5.3.2_Student_Representation_2020-21.pdf
Upload any additional information	View File

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

5

File Description	Documents
Report of the event	View File
Upload any additional information	View File
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)	View File

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

Jyothi Engineering College hasa registered Alumni Association (JECAA) since 2021. It hasstrong bonding with the alumni ever since the first batch that passed out.Their strong presence in the gulf countries has immensely helped the institution with job offers, admissions, internships and funding prospects for the discerning students. As our institution is almost two decades old, a number of alumni are in top positions in various fields. The alumni are invited for webinars / talks / workshops and these interactive sessions help the current prospective students gain a foot in the door to employability and

educational opportunities in India as well as abroad. Every year we are conducting Alumni Meets and maintaining a continuous rapport with alumni members. In connection with this, football matches, film making competitions and various co-curricular activities are also conducted. Our alumni had over many years supported financially the well deserving students from economically poor background by providing laptops, scholarships, and endowments. Our strong JECAA aims to instil a sense of pride and loyalty in our current students, which lays the motivation as well as reward, for both the alumni and our college.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/iqac/2020/5.4.1_Alumni_Webinars_Talks_2020-21.pdf
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs) — D. 1 Lakhs - 3Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

COLLEGE VISION

Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

COLLEGE MISSION

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programs with state-of-the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite

their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

Jyothi Engineering College (JEC) under Trichur Educational Trust founded by the Catholic Archdiocese of Trichur started functioning at Cheruthuruthy in the year 2002.The Management strictly adheres to the recommendations of its Governing Council. The governing council meeting is convened periodically and important aspects of academic and non-academic matters are discussed and decisions are taken to benefit all the stakeholders of the system.

JEC is committed to provide all requirements in curricular and co-curricular areas of Technical Education to our students and mould themto become true professionals of international standards. Faculty members are given representation in various committees/cells nominated by the college council, in the Governing body, in the IQAC, and other committees.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/aboutus
Upload any additional information	View File

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

Decentralization

The institution has a mechanism of providing operational autonomy to various functionaries in order to ensure a decentralized governance system.

1.Principal Level

The Principal in consultation with the college council and IQACconstitutes different committees for planning and implementing different academic,administrative and related tasks.

2.Faculty level

Faculty members are given representation in various committees/cells,the Board of Governors, the IQAC and other committees.

3. Student level

The functioning of different secretaries of students' unions further reinforces decentralization.

Participative management

The institution promotes theparticipative management at the strategic level,functional level and operational levels.

· Strategic level:

The Principal, Board of Governors, College counciland the IQAC are involved in defining policies, framingguidelinespertaining to admission,examination,discipline,grievance,support services,finance,etc.

· Functional level:

Faculty members share knowledge among themselves,students and staff members while working in a committee. Principal and faculty members are involved in joint research and have published papers in reputed journals.

· Operational level:

The Principal interacts with Government,University,AICTE,UGC and external agencies. Faculty members maintain interactions with the concerned departments of the affiliating university. Students and office staff join hands with the Principal and faculty for the execution of academic,co-curricular and extra-curricular activities.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/CollegeHandBook2020-21.pdf
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Jyothi Engineering College (JEC),set up in 2002,under the aegis of Trichur Educational Trust,founded by the Catholic Archdiocese of Trichur,is a leading Engineering College in Kerala.

In 2016, JEC was accredited by NBA for four B. Tech programmes i.e.,Computer science and Engineering,Electronics and Communication Engineering,Electrical andElectronics Engineering and Mechanical Engineering.In 2019, our Civil Engineering department got NBA accreditation.JEC is also a NAAC accredited institution implying we have a clearly defined process to ensure our desired outcomes are as objective as possible.JEC has recently applied to UGC for Autonomy status.

In line with JEC's stated vision to be an innovation-driven institution,we have setup Integrated Industrial Incubation Centre (IIIC), in association with TATA Technologies. Additionally, we run a Technology Business Incubator (TBI) and a Fabrication lab (FABLAB) primarily for our students.We plan to offer these facilities to the industry located in and around Thrissur and subsequently the entire state of Kerala,especially the MSMEs located in Thrissur/Kerala.Jyothi Engineering College has set up a centre for Innovation and Entrepreneurship Development (IEDC) under the aegis of Kerala Start-up mission with an aim to provide students with a platform for experimentation and innovation.

Jyothi Engineering College's long-term objectives flow from our stated vision and mission.

File Description	Documents
Strategic Plan and deployment documents on the website	[View File]()
Paste link for additional information	https://jecc.ac.in/documents/CollegeHandBook2020-21.pdf
Upload any additional information	[View File]()

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.

Organizational Responsiveness

We at Jyothi Engineering College believe that institutional agility is a capability to deal with changes that often arise unexpectedly in our environments. In a volatile environment, where stakeholder needs can change rapidly, decisions should be made quickly. The Jyothi Engineering College management has realized the need to create an agile organization, to face these challenges. As a first step, we identified our key internal and external stakeholder interests. We then specified the pillars on which our institution rests. Based on identification of stakeholder needs and the pillars that support our edifice, we created a responsive organization structure.

Pillar-stakeholder matrix Pillar Stakeholder Responsibility Academic excellence Students, industry, faculty, competitor Principal Research Faculty, research community, industry, competitor Principal Admissions Jyothi Management, industry, faculty, competitor COO Placements Students, parents, industry, competitor Director Placements Infrastructure Students, employees of Jyothi, competitor Projects Head Faculty, industry, students, competitor Faculty, industry, students, competitor Director QA and Industry Connect Innovation/new initiatives Students, faculty, industry, Jyothi Management, competitor COO Student activities Students, faculty, competitor Vice Principal Quality assurance All internal and external stakeholders, competitor Director QA and Industry Connect

File Description	Documents
Paste link for additional information	https://jecc.ac.in/administration
Link to Organogram of the institution webpage	https://jecc.ac.in/documents/Organogram_2021.pdf
Upload any additional information	View File

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

File Description	Documents
ERP (Enterprise Resource Planning)Document	View File
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

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

Following are the welfare measures:

Teaching: Staff Club, Medical Leave, Gratuity, StudyLeave, Maternity Leave

Medical Leave:

All staff members are eligible for medical leave @ 12 days for every completed year of service after the probation period.

Maternity Leave:

All women employees are entitled to maternity leave for a period of 90 days. Complete monthly salary and benefits shall be paid during the period of maternity leave.

Study Leave:

Study leave shall ordinarily be granted only to the faculty who have completed at least 3 years of service.

Non-teaching: ESI, Staff Club, Medical Leave, Provident Fund,Maternity Leave

Provident Fund:

JECis committed to complying with statutory provisions of Employees Provident Fund Deduction will be made from the salary of employees and will be deposited to the designated provident fund accounts along with the contribution of the organization

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as per the provisions of the said Act.

ESI: ESI Scheme is related to the paying capacity as a fixed
percentage of the worker's wages, whereas, they are provided
social security benefits according to individual needs without
distinction.

Gratuity: Gratuity is given to an employee who has worked in
the college for over five years.
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File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/HR_MANUAL_V4.pdf
Upload any additional information	View File

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

3

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

6.3.3 - Number of professional development /administrative training 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).	View File
Reports of Academic Staff College or similar centers	View File
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

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

75

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	View File
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

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

Our Appraisal system is an attempt to standardize the system,taking note of the various activities and rendering credit to each of the efforts.The objective at the back of this

is to evaluate everything that is done for the college community and to encourage and appreciate the same.

In an effort to recognize and reward the performance of employees, it is the organization's philosophy that the principal component to enhance compensation shall be through annual increments based on performance evaluations. All regular employees are eligible for yearly increments based on the results of their Performance Appraisal conducted annually. Employees are informed in writing about their annual increments after the Performance Appraisal.

Jyothi has incorporated the innovative practice of making the appraisal process foolproof and comprehensive.The appraisal system accommodates every activity each one undertakes with clear weightage and credit points. This is an exercise to acknowledge and appreciate each one's hard work and contributions to our college community which in turn, will encourage all to engage in more creative and productive activities.

A brief note on this review and related counseling provided shall be prepared and signed by both the employee and the HOD/Principal and maintained in the employee's personal file.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/documents/HR_MANUAL_V4.pdf
Upload any additional information	View File

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

Internal Audit

The internal audit is done by an in-house team and will carry out the accounting procedure of internal control of finance on a day-to-day basis. Since the institution follows a good system of internal control like calling quotations, comparison of rates, preparation of purchase order for each and every requirement needed, preparation of wage sheets, all the

employee benefits are vouched for conducting and participating in conferences, faculty development programs,etc.No expenses are incurred without proper approval or sanction by the head of the institution or head of the various departments.

External Audit

The institution also has an external audit mechanism carried out by Abraham and Jose Chartered Accountants.This statutory auditor audits the annual account and examines on a test basis evidence like fees collection with the approved list of students on such verification any discrepancies will be discussed and sorted out with the management. Once all financial transactions are accounted for, based on those financial statements like balance sheet and Income and Expenditure Statement are prepared for the financial year.Such financial statements will be signed and approved by the Auditor and Management. Based on the audited financial statements, the auditor will issue a Final Audit Report.

File Description	Documents
Paste link for additional information	https://www.jecc.ac.in/documents/Financial_Statement.pdf
Upload any additional information	View File

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)

0.45

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

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

Jyothi Engineering College is a private self-financing Engineering College and it has only limited scope for raising funds. The institution doesn't have either grants or aid from the Government or University. It is the responsibility of the Management of Jyothi Engineering College to find out the source of financial resources.

The important source of financial resources is the student fee collection. The state fee regulatory commission has decided the fee structure of the B. Tech program and the college is collecting fees based on the guidelines of the fee regulatory commission and within the framework of the agreement signed between the Government of Kerala and Kerala Catholic Engineering College Management Association. The surplus of the fee income is used for the development of the college.

Jyothi Engineering College has been utilizing its various resources for various activities since its inception. One of the main resources that have been utilized in this institution is the Computer Centre.For the last five years, these have been used for various exams and training like GATE, JIPMER, RRB, SBI, TCS iON, CUSAT, JEE, JNU, ICAR, UGC NET, CSIR,ICAI CAT, etc. Many students and trainees have benefited from this for the last few years.

File Description	Documents
Paste link for additional information	https://www.jecc.ac.in/documents/Financial_Statement.pdf
Upload any additional information	View File

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

The institution has an active IQAC committee that looks into the proper functioning and quality of output of the different activities undertaken.Threesets of question papers are presented for internal examinations from which the IQAC can select one for any given exam.

The R&D departmentis formed to encourage innovation and to

harmonize the research activities of the various disciplines in the institute.R&D takes every initiative to support and encourage faculty members to apply for research projects to different funding agencies (Govt./Non-Govt.), for Research Promotion Scheme,and other projects. Initiatives are taken to organize different Faculty Development Programs,Technical Workshops, National and International Conferences for thetransfer of knowledge among the students and faculty members. R&D supports research publication of the faculty in peer-reviewed, UGC-approved journals and conference proceedings. Financial support & rewards are offered to those faculty who present papers in National and International Conferences and Seminars and to those who publish papers in reputed National and International Journals. R&D initiated Jyothi Research Fellowship programs to encourage Talented Graduates to be a part of research activities in the State-of-the-art facility for design, prototype development, testing, implementation, and technical documentation – Conference / Journal papers / IPR.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/iqac
Upload any additional information	View File

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

The R&D department of JEC consists of eminent faculty and academicians topromote the research activities on the campus. There are faculty members with guideship and several research scholars are pursuing Ph.D. under their guideship. Many faculty members of JEC are doing Ph.D. on a full-time/ part-time basis. The number of faculty members with Ph.D. has increased over the years. R&D supports research publication of the faculty in peer-reviewed, UGC-approved journals and conference proceedings. Financial support & rewards are offered to those faculty who present papers in National and International Conferences and Seminars and to those who publish papers in reputed National and International Journals.

The College has various Add-On Certificate Courses that have been started to enhance and enrich the students' learning

experience in the College. This ensures a holistic approach to learning and develops the necessary skills for various vocations and careers. Add-On courses are aligned with the KTU academic calendar. Colleges have the flexibility to suggest new courses as the job market needs to dictate, and also advice from industry is taken into account.

File Description	Documents
Paste link for additional information	https://jecc.ac.in/consultancy_research
Upload any additional information	View File

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)	**A. All of the above**

File Description	Documents
Paste web link of Annual reports of Institution	https://jecc.ac.in/iqac/annual_reports
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

JECC ensures safety measures in different perspects. Women Development Cell (WDC) in JECC named as"SANSKRITHI" acts as a

forum for providing self-empowerment of girl students and lady faculties, to take care of the problems and matters related to them and to empower them in the society. Every year WDC conducts a variety of events for the upliftment of women and to spread the importance of gender equality in society. No one is allowed to enter the campus without a valid ID card. In order to prevent any adverse events, the campus and hostels are monitored by CCTV 24 x 7. For each laboratory course, a laboratory manual explaining Do's and Don'ts has been prepared to ensure a peaceful and sustainable laboratory environment for students and teachers. To ensure everyone's safety, fire extinguishers and first-aid kits have been positioned in prime areas of the campus.

Counselling: The recent adult behavior by the students creates a lot of anxiety among parents and society. To overcome this counselling sessions separately for boys and girls are arranged by renowned counsellors.

Common Restrooms: The College has well-furnished rest rooms for boys and girls which are used by them when they need any physical rest.

File Description	Documents
Annual gender sensitization action plan	https://jecc.ac.in/documents/iqac/2020/7.1.1_B_Annual_Gender_Sensitization_Action_Plan.pdf
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	https://jecc.ac.in/documents/iqac/2020/7.1.1_A_Specific_Facilities_Provided_For_Women.pdf

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. Any 3 of the above

File Description	Documents
Geo tagged Photographs	[View File]
Any other relevant information	[View File]

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

Jyothi Engineering College is strongly committed to waste management and strongly advocates conservation of resources, to generate minimal waste and manage it from its inception to its final disposal. Segregation of waste at source is administered for effective waste management strategy- Reduce, Reuse and Recycle.

Solid Waste Management

The solid waste generated in the campus and hostels including wrappers, metals, paper and plastics are collected and segregated into different types of bio and non-biodegradable waste and disposed of accordingly. The processed food waste is sent to piggeries periodically. Most of the official communications like notices, minutes are shared through WhatsApp or e-mails.

Liquid Waste Management

The institution is a forerunner in educating young minds by organising events like World Water Day each year on relevant themes, to reinforce the idea of valuing and conserving water. Liquid waste or sullage generated in the institution is treated and disposed of into soak pits.

E-waste management

The institute gives diligent importance to E-waste management by ensuring that electronic goods are put to optimum use; the minor repairs and periodic maintenance is assured by the technical staff and the Laboratory assistants; the rest of the e-wastes are collected by an e-waste collection agency.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

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

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

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

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

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

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. Any 3 of the above

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

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	C. Any 2 of the above

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

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

The Institution shows immense pleasure and responsibility in the aspect of tolerance and harmony in the fields of cultural, regional, linguistic, communal socio-economic and other diversities. With the precise inputs of Management and Principal, the Institution is conducting initiatives and programmes within the campus to achieve an inclusive environment for all the students and staff. By conducting such events and celebrations, the students learn experience and cultivate social responsibility, and inculcate interpersonal and intrapersonal skills through participation.

Students from outside the state are encouraged to join the college and such students are required to meet the Principal in person and seek admission.

Efficient faculty members from outside the state are also welcomed to the Institute.

Institute is keen on helping the meritorious and financially backward students. Different slabs on the basis of the KEAM rank are formed right from the formation of the Institution. The Institution has been kind enough to spend a large amount as scholarship every year to these students.

Institute has the regular practice of conducting various events/activities in order to alleviate socio economic barriers among the students and staff members even in the pandemic period of Covid 19.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional

obligations: values, rights, duties and responsibilities of citizens

Civic duties are not only restricted to books for children but it is a foundation on which the future of any country rests. College should leave no stone unturned to make it interesting for students so that they are compelled to implement the learning in their lives. The best way to inculcate the importance of civic duties in students is by imbibing patriotic values. Every year the Institute celebrates Republic Day, and Independence Day on January 26 and August 15 respectively. The celebrations were attended by Students, Teaching and Non-teaching Staff, Invitees, guests and any attendees. Flag hosting with the National anthem and oath of national integrity followed by distribution of sweets is the regular decorum of the programme.

Students consistently and regularly participate in the cleaning activities. The programme initiates with Preamble reading of the constitution followed by lectures on the sensitization of students on responsibility towards the constitutional values, rights, duties and responsibilities of citizens. Students are encouraged to rebuild homes, mask making, book collection, cloth bag distribution, and awareness campaigns for blood donation are done in this pandemic period.

https://jecc.ac.in/documents/iqac/2020/7.1.9_Sensitization_of_Students_and_Employees_of_the_Institution.pdf

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://jecc.ac.in/documents/iqac/2020/7.1.9_Sensitization_of_Students_and_Employees_of_the_Institution.pdf
Any other relevant information	https://jecc.ac.in/documents/iqac/2020/7.1.9_Sensitization_of_Students_and_Employees_of_the_Institution.pdf

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	A. All of the above

on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

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

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

College makes high efforts and importance to celebrate national and international days. International Days are celebrated to mark important aspects of human life and history. Every year the college celebrates Independence Day, Republic day with flag hoisting. Every year the college celebrates national science day with invited talk from eminent persons. The main objective of National Science Day is to bring awareness to students about the importance of science in our daily life. Every year natura(Environmental forum in college) celebrates the environmental day in college in an auspicious way. The programme initiates with Preamble reading of the constitution followed by lectures on the sensitization of students on responsibility towards the constitutional values, rights, duties and responsibilities of citizens. Institute celebrates International commemorative days like Engineer's Day, Teacher's Day, World Palliative care Day, World Environment Day, World Nature Day. International days are celebrated to educate and aware the students on issues of concern to address global problems. Institution organizes various activities for students to create awareness among the students

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

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

1. **Social and Technical activities through Centre for Water Research and Education**

   - **To provide services and to educate the public towards the water issues with focus on maintenance of domestic water sources.**

   - **For the benefit of the society our college is providing free website information to the people on water and sanitation. As part of CWRE, water sample testing is carried out.**

   - **Water samples from local communities are taken and remedial measures are provided**

   - **Number of samples are increasing every year**

   - **CWRE received numerous requests for the water quality checking. Collection and Analysis of numerous water samples is the major issue.**

1. **Revamped Teaching Learning (RTL) Process**

   - **Enrichment of students skillset imposed to identify & solve problems. Networking with parents and peers to observe students' progress.**

- **In multidisciplinary environments, student-centered learning and methodical mentoring is necessary to attain their objectives.**

- **Practices followed are Mentoring(To improve the students academic performance), English Proficiency Test, Project Based Learning(practical and system development capabilities by Add- on courses)**

- **Enrichment of the skill set of student's programs imparts confidence among the students for qualifying competitive exams.**

- **For the exploration and development Students should take project-based learning seriously**

- **https://jecc.ac.in/documents/iqac/2020/7.2_Best_Practice_1.pdf**

- **https://jecc.ac.in/documents/iqac/2020/7.2_Best_Practice_2.pdf**

File Description	Documents
Best practices in the Institutional website	https://jecc.ac.in/documents/iqac/2020/7.2_Best_Practice_1.pdf
Any other relevant information	https://jecc.ac.in/documents/iqac/2020/7.2_Best_Practice_2.pdf

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

Integrated Industrial Incubation Centre (IIIC)

Jyothi Engineering College signed an MoU with Tata Technologies Ltd, to establish an Integrated Industrial Incubation Centre (IIIC), the 6th in India and the first in South India.

We prepare students to become T-Shaped professionals. The

vertical bar on the T-shaped person is an indication of the depth of knowledge and skills in their chosen engineering stream whereas the horizontal bar represents the person's competencies in interdisciplinary areas and life skills. This contextual knowledge helps in giving students a broader perspective. T-shaped skills – or a T-shaped person – has qualities that make that employee valuable; they possess excellent knowledge and skills in specific areas and are good at working with others in a collaborative way.

In order to train our students, we have set up an incubation Center, Integrated Industrial Incubation Centre (IIIC), in association with TATA Technologies.

IIIC offers 120 hours training for various courses in association with TATA Technologies

After successful completion of all modules of a particular course, the eligible student will be awarded a certificate of achievement.

File Description	Documents
Appropriate web in the Institutional website	**No File Uploaded**
Any other relevant information	[View File](#)

7.3.2 - Plan of action for the next academic year

We have applied successfully for the autonomous status from UGC and waiting for the inspection.

Steps are initiated to offer high end training for engineering graduates and working professionals through TATA IIIC.

Plans are in the pipeline to take on more challenging projects in water treatment and distribution through the water institute (CWRE), which are beneficial to the society.

Each department is planning to conduct at least one faculty development programme and an international conference on

college level annually.

More professional training programmes are proposed for the student community in order to help them to excel in the placement process.

Institute would like to promote an ecosystem to generate start-ups in software development, electric vehicles, 3D manufacturing, civil engineering constructions etc. under its TBI.

Institute is planning to apply for MBA programmes.