



## YEARLY STATUS REPORT - 2020-2021

<b>Part A</b>	
<b>Data of the Institution</b>	
<b>1.Name of the Institution</b>	<b>FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY</b>
• Name of the Head of the institution	<b>Dr. Manoj George</b>
• Designation	<b>Principal</b>
• Does the institution function from its own campus?	<b>Yes</b>
• Phone no./Alternate phone no.	<b>04842725272</b>
• Mobile no	<b>9495949355</b>
• Registered e-mail	<b>mail@fisat.ac.in</b>
• Alternate e-mail	<b>mini@fisat.ac.in</b>
• Address	<b>Hormis Nagar, Mekkannoor P.O, Angamaly, Ernakulam</b>
• City/Town	<b>Angamaly</b>
• State/UT	<b>Kerala</b>
• Pin Code	<b>683577</b>
<b>2.Institutional status</b>	
• Affiliated /Constituent	<b>Affiliated</b>
• Type of Institution	<b>Co-education</b>
• Location	<b>Rural</b>

• Financial Status	<b>Self-financing</b>				
• Name of the Affiliating University	<b>APJ Abul Kalam Technological University</b>				
• Name of the IQAC Coordinator	<b>Dr. Mini P R</b>				
• Phone No.	<b>04842725272</b>				
• Alternate phone No.	<b>04842725205</b>				
• Mobile	<b>9495949355</b>				
• IQAC e-mail address	<b>iqac@fisat.ac.in</b>				
• Alternate Email address	<b>mini@fisat.ac.in</b>				
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>	<a href="https://fisat.ac.in/pages/naac-related-content">https://fisat.ac.in/pages/naac-related-content</a>				
<b>4.Whether Academic Calendar prepared during the year?</b>	<b>Yes</b>				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://fisat.ac.in/pages/academic">https://fisat.ac.in/pages/academic</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A</b>	<b>3.06</b>	<b>2016</b>	<b>05/11/2016</b>	<b>04/11/2021</b>
<b>6.Date of Establishment of IQAC</b>			<b>15/02/2017</b>		
<b>7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,</b>					

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institutional	AICTE Scheme for Promoting Interest, Creativity and Ethics among students	AICTE	2020-2021	100000
Faculty	Centre for advanced technologies in disaster management (CATDM)	Cochin University of Science and Technology	2020-2021	17800
Faculty	CERD	APJKTU	2020-2021	30000
Faculty	CERD	APJKTU	2020-2021	5000
Faculty	CERD	APJKTU	2020-2021	15000
Faculty	CERD	APJKTU	2020-2021	23000
Faculty	Research Seed Money Scheme	APJKTU	2021-2024	175000
Faculty	Research Seed Money Scheme	APJKTU	2021-2024	80000
Faculty	Research Seed Money Scheme	APJKTU	2021-2024	75000
<b>8. Whether composition of IQAC as per latest NAAC guidelines</b>		<b>Yes</b>		
<ul style="list-style-type: none"> <li>• Upload latest notification of formation of IQAC</li> </ul>				
<b>9.No. of IQAC meetings held during the year</b>		<b>4</b>		

<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?</li> </ul>	Yes	
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded	
<b>10. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>		
<b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
1. Initiated preparation for NAAC re-accreditation under the revised accreditation framework		
2. Coordinated the introduction of more features in the e-governance system like creation of E- course files		
3. Brought in more focus on remedial measures for improving academic output		
4. Encouraged more participation in research publication and fund generation		
5. Conducted academic audits and ISO audit successfully during the pandemic		
<b>12. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year</b>		

Plan of Action	Achievements/Outcomes
Preparation for NAAC reaccreditation	Orientation programs arranged for faculty, audits conducted to evaluate the status of preparation
To enhance facilities for students and faculty in e-governance portal	E-Course file work completed and available in FISAT Campus Automation System Student registration and feedback submission available through FISAT Campus Automation System
Facility to submit reports of activities through e-governance portal	Reports of activities conducted by departments/cells /committees can now be submitted in standard format through FISAT Campus Automation System
More contribution to research	Significant increase in the number of faculty registering for PhD, research publications and research grants/funds received.
Faculty empowerment	Significant increase in the number of FDPs and workshops attended by Faculty
Student enrichment	A number of students have completed internships and mocc courses

<b>13. Whether the AQAR was placed before statutory body?</b>	<b>Yes</b>
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- Name of the statutory body

Name	Date of meeting(s)
Internal Governing Council	06/12/2021

<b>14. Whether institutional data submitted to AISHE</b>

Year	Date of Submission
2020	14/08/2020
<b>Extended Profile</b>	
<b>1.Programme</b>	
1.1 Number of courses offered by the institution across all programs during the year	534
<b>2.Student</b>	
2.1 Number of students during the year	2623
2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	712
2.3 Number of outgoing/ final year students during the year	548
<b>3.Academic</b>	
3.1 Number of full time teachers during the year	195
3.2 Number of sanctioned posts during the year	195
<b>4.Institution</b>	
4.1 Total number of Classrooms and Seminar halls	80
4.2 Total expenditure excluding salary during the year (INR in lakhs)	365.97
4.3 Total number of computers on campus for academic purposes	878

## 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

As an affiliated institution of APJ Abdul Kalam Technological University, FISAT ensures effective curriculum delivery through

- Preparing institution calendar adhering to university regulations and university calendar
- practising OBE

- implementing CBCS
- Offering additional credentials like B Tech Honours and B Tech with Minor
- Offering Add on programs
- planning and monitoring curriculum and course delivery through Academic Committees like Internal Quality Assurance Cell , Department Advisory Committee, Department Quality Assurance Cell, Program Assessment Committee, Course Assessment Committee and the Academic Council
- Faculty competency based subject allocation
- Centralised time table based on university guidelines
- Preparation of Course delivery plan by faculty and regularly updating records of course delivery, attendance, assessments etc
- ICT enabled teaching using content delivery platforms EDX called FISATX, virtual meeting tools like WEBEX & Google Meet and learning management systems like MOODLE & Google Classroom.
- Offering additional pedagogical initiatives like flipped classrooms, blended learning, hands-on training in different labs, industry projects and internships etc
- Conducting Class committee meetings, collecting Feedback on curriculum, teaching, and course outcomes each semester and analysing at institutional and departmental levels
- Measuring curricular delivery, suggesting resolutions and documentation by internal and external audits at the level of IQAC, University (KTU Audit) and Certifying Agency (ISO Audit).

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://accreditation.fisat.ac.in/criterion_1.1.1.html">https://accreditation.fisat.ac.in/criterion_1.1.1.html</a>

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

At the beginning of the academic semester, an institutional calendar is prepared based on the University academic calendar which details the academic, co-curricular and continuous internal evaluation activities to be followed both at departmental and institutional level. Internal evaluation components include components like series tests, laboratory or project evaluations, seminars, assignments and module specific tests. Academic Council decides the dates of the evaluative exams, question papers based on Blooms taxonomy, answer key, scheme of valuation are prepared maintaining strict confidentiality as per the notified dates, Examination cell coordinates the conduct of exam like setting timetable, seating arrangement, invigilator duty, squad teams. Exam halls have surveillance systems and identity cards are mandatory for students entry to exam hall. After secure conduct of the exam, answer scripts are handed over to the faculty for completing evaluation within 7 days. The evaluated answer scripts are discussed with students and marks are updated in FISAT Campus Automation System with viewing access to students. Results are analysed and remedial actions are discussed at department level and by Academic Performance Monitoring Committee. Adherence to academic calendar including the conduct of CIE are monitored by internal audit cell, KTU external audit and internal and external ISO audits.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://accreditation.fisat.ac.in/criterion_1.1.2.html">https://accreditation.fisat.ac.in/criterion_1.1.2.html</a>

**1.1.3 - Teachers of the Institution participate in A. All of the above 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

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

## 1.2 - Academic Flexibility

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

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

14

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

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

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

20

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

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

1104

File Description	Documents
Any additional information	No File Uploaded
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View File</a>

## 1.3 - Curriculum Enrichment

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

Being an affiliated institution, all the programs offered by FISAT follow the curricula given by the University (KTU). Syllabi across courses at UG and PG level integrates cross-cutting issues of professional Ethics, Gender, Human Values, Environment and Sustainability as part of modules or as stand-alone subjects. These principles are practically disseminated through policy inclusion, co-curricular activities and value-added programmes. Professional ethics is imparted through 26 courses in the curriculum and also instilled through Program outcomes and program specific outcomes Awareness programs on Intellectual Property Rights etc are arranged. Gender issues are addressed through 7 courses, functioning of Gender Equity Cell, Womens Cell, active representation of women in the student community and workforce. Human values are dealt with in 14 courses, teachers attend Universal Human Values courses and handle human value classes for first year students, NSS and SWAN clubs organise extension and social outreach programs. Environment and sustainability is dealt with in 23 courses. Nature club helps students to involve in agricultural activities and spreads awareness on Habitat conservation. The institution promotes 5R themes of Refuse, Reduce, Reuse, Repurpose and Recycle policy through zero waste and no plastic drives, rainwater harvesting, scientific

**management of organic and non-biodegradable waste, wastewater treatment.**

File Description	Documents
Any additional information	<a href="#">View File</a>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View File</a>

**1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year****578**

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

**1.3.3 - Number of students undertaking project work/field work/ internships****1419**

File Description	Documents
Any additional information	No File Uploaded
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

**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	<a href="https://accreditation.fisat.ac.in/criterion_1.4.1.html">https://accreditation.fisat.ac.in/criterion_1.4.1.html</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	No File Uploaded
Any additional information	No File Uploaded

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

**A. Feedback collected, analyzed and action taken and feedback available on website**

File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	<a href="https://accreditation.fisat.ac.in/criterion_1.4.1.html">https://accreditation.fisat.ac.in/criterion_1.4.1.html</a>

**TEACHING-LEARNING AND EVALUATION**

**2.1 - Student Enrollment and Profile**

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

**710**

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

**710**

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

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

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

**231**

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

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

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

Induction Program for different courses help the new students adjust to the new environment and inculcates core values of the institution. Students are given Bridge Courses to reinforce fundamental concepts.

Identification of advanced and slow learners are done through analysis of any of these:

- Academic history of student.
- Bridge Course Performance
- First Series Test
- Mentor Feedback
- Online quizzes
- classroom activities and assessment performance

Programs for Slow learners:

- Remedial classes for difficult subjects
- Sharing of Self-learning materials like recorded videos, question bank with solutions etc.

- Training on communication skills
- Revision classes before university exams.
- Peer group systems and collaborative learning with help of advanced learners
- Merit cum means scholarships and financial aid to economically weak students
- Strong mentor support.

#### Programmes for Advanced Learners:

- Support to create smart devices through fabrication laboratory (FISAT FabLab).
- Membership of professional bodies (CSI, ASME, IEEE), training for software, languages, competitive exams like GATE.
- Financial support for research projects
- Mentorship for online courses in MOOC, NPTEL and Coursera
- Training to use E-resources in INFLIBNET, N-List, DELNET
- Participation in national seminars and workshops and paper publication in IEEE journals and Springer.
- Merit based scholarships, prizes and certificates to advanced learners.
- Participation in National and state level intercollegiate competitions

File Description	Documents
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_2.2.1.html">https://accreditation.fisat.ac.in/criterion_2.2.1.html</a>
Upload any additional information	<a href="#">View File</a>

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

Number of Students	Number of Teachers
2656	195

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

## 2.3 - Teaching- Learning Process

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

Through an ICT enabled campus, IP enabled library facilities, sophisticated tools and Learning Management Systems, teaching - learning in FISAT ensures active student involvement. Faculty adopt innovative teaching - learning methodologies and pedagogy tools to enhance the learning experiences.

Experiential learning activities through

- State of art laboratories and mini fabrication labs (FabLab)
- e-learning facilities including NDLI club, digital library, e-books, e-journals, e-databases, NPTEL chapter, etc.
- Industry powered centres like Centre for Robotics - eYantra,
- Field visits, industrial visits
- Funded projects, technical publications.
- Mini projects and design-based experiments beyond syllabus.
- Virtual games and board games to simulate real market scenarios.
- Apps and softwares developed by students to support e-Governance
- Computer assembling, system maintenance by students
- Community service and extension activities

Participative Learning through

- Flipped classrooms
- Mini, design and major projects
- Class presentations, participation in national, international conferences, seminars
- Field visits & industry visits
- Invited Lectures
- Interactive quizzes
- Think-pair-share
- Study circles
- Group discussions, debates, seminars
- Computer hardware assembling and maintenance by students
- Agricultural initiatives with student involvement.
- Project expos

#### Problem- solving through

- Workshops, laboratory experiments, case studies, hackathon, field/industrial projects.
- Internships, industry-based mini, major projects
- Peer learning, group tutorial, collaborative learning
- Research publications in Springer, IEEE.
- Brainstorming, Survivor Scenarios, Moral Dilemma Contexts.



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_2.3.1.html">https://accreditation.fisat.ac.in/criterion_2.3.1.html</a>

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

- FISAT provides 400 Mbps internet leased line (1:1) and wi-fi. Internet can be accessed anywhere in the campus. A dedicated firewall is implemented. Wi-fi facility is also available through Aruba HP Access Points.
- Teaching & Learning pedagogical methodologies use ICT tools like projectors, smart boards, smart televisions and other online tools for the preparation of presentations and demonstrations and traditional black board teaching, powerpoint presentations, video lectures and collaborative learning methods using FISATX, MOODLE, Google Classrooms, flipped classrooms etc.,
- Online training and certification from NPTEL, Coursera etc. As FISAT is NPTEL Local Chapter faculty members mentor students
- National Digital Library of India Club (NDLI Club) supports all the e-resources such as e-Shiksha, e-books, e-journals etc. Online videos, CDs & DVDs, project and thesis reports are available in library. An IP enabled digital library to access e-journals and transaction papers from IEEE, ASME, ASCE, EBSCO, J-GATE, SWAYAM, DSPACE, DELNET, and SPRINGER and remote access through e-Library platform (Knimbus). 'mLibrarymobile' app offers a multi-format, content delivery App available for both Android and iOS users to access eBook collections, e-Course materials, latest journal issues and multimedia learning content
- Language Lab in which audio-visual installation is used as an aid in English language teaching

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

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

#### 2.3.3.1 - Number of mentors

144

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

### 2.4 - Teacher Profile and Quality

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

192

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

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

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

37

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

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

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

00

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

## 2.5 - Evaluation Process and Reforms

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

The institution follows the guidelines given by the affiliated university (KTU) for the conduct and evaluation of internal assessment tests. Two series tests are conducted for each subject centrally by examination cell. The other components of internal assessment include assignment and attendance. As per the regulations of university, 50 marks out of total marks of 150 is allotted for internal assessment.

- The first series exams are conducted after 4-5 weeks and second series exams after 8-9 weeks of commencement of classes as per the timetable issued by exam cell
- Question paper, answer key, evaluation scheme based on COs, Blooms Taxonomy prepared by the faculty member is verified by Course Assessment Committee, approved by HoD and handed to exam cell maintaining confidentiality . Conduct of exams is monitored by CCTVs
- After evaluation of answer scripts within seven days, the answers are discussed in class and verified by students. Mark

entry is done in FISAT Campus Automation System and progress report is despatched to parents.

- Class committee meeting, Academic Performance Monitoring Committee meetings are conducted to analyse the results and suggesting remedial measures.
- Open house and PTA meetings are conducted
- Regular audits by internal audit cell, KTU external audit and ISO audit.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_2.5.1.html">https://accreditation.fisat.ac.in/criterion_2.5.1.html</a>

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

The institution has a multi-tier mechanism to address all examination and evaluation related grievances arising during CIE and university exams respectively as per the Examination Grievance Policy.

#### Institution Level

- The evaluation of internal assessment books is completed in seven days.
- After evaluation of answer books, faculty distributes it in class to the students for verification. Grievances in valuation are immediately redressed by the faculty in charge and if not resolved satisfactorily, it is taken up at the departmental level by Group advisor and HoD.
- The grievances which are not resolved at this level are redressed by an institution level committee with the Principal as Chairman, HOD and Academic Performance Monitoring Committee (APMC) members.
- In addition to this, a progress report of internal examination marks is given to the parents in the open house and through the FISAT Campus Automation System

#### University Examination

- For university examinations, grievances can be represented to the examination committee in charge and also through online Students' Grievances Portal. The institution addresses these

complaints at the institution level and informs the university if required.

- Instances of malpractices in university examinations, are reported to the university and dealt with as per university guidelines existing from time to time

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://accreditation.fisat.ac.in/criterion2.5.2.html">https://accreditation.fisat.ac.in/criterion2.5.2.html</a>

## 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 programme outcome (PO), programme specific outcome (PSO) and course outcomes (CO) of all programmes and courses are made available through
- Print media (Student Handbook and Calendar, College and Department Newsletters, Course Diary and Lab Manuals)
- Digital media (Institution's website and Academic Portal).
- The IQAC has made POs, PSOs, and COs part of the course file.
- POs, PSOs and COs are well displayed on the website. .
- POs and PSOs are displayed on the Department Notice Boards, laboratories of the college, Faculty rooms, HoD cabin, Department library and Classrooms
- The Head of the Department and the group advisors explain various programme outcomes to students right from the induction meeting.
- Faculty members handling courses explain course outcomes and relate it to POs and PSOs and also explain the pattern of questions in the internal question papers and its connection with the course outcomes.

- Each department has published a booklet for POs, PSOs and COs and its soft copy is made available to the students through FISATX and FISAT Campus Automation System.
- Student Handbook and Calendar, College and Department Newsletters having POs/PSOs and COs are disseminated to stakeholders through Open House, PTA meetings, Alumni meets, Workshops, Conference, Seminars/Webinars and FDPs.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View File</a>

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

- COs are evaluated each semester and POs and PSOs every year.
- Achievement of POs & PSOs is computed for each programme considering all COs aligning with each PO & PSO and their individual strength.
- Achievement of POs are determined by comparing with prefixed targets

Measurement is done by direct and indirect assessment tools like:

For COs,

(1). Direct Assessment Tools:

- Theory courses:

1. Internal Evaluation Test,
2. Assignments, Tutorials.

- Practical courses

1. Observation, Record work of experiments
2. Viva-Voce
3. End-Semester Examination

- Course projects

1. Design Project/ Project review, presentation.

## 2) Indirect Assessment Tools

Course end survey

### 3) University Examinations

Attainment of CO of all courses against set attainment levels

CO calculation

Target calculation for CO: based on average performance of students in university examinations for consecutive three years and includes 2 parameters

1. Expected Proficiency/Knowledge (EP): average grade secured by at least 50% of total students in last three years.
2. Expected Attainment (EA): average attainment of previous three years multiplied by 1.05 ( 5% rise every year).

CO attainment calculation

Direct-method:40%

University: 50%

Indirect-method:10%

PO and PSO assessment:

1. Direct-methods: 80% weightage

Internal, practical and university examinations, assignments, project evaluation, comprehensive viva, seminar

2. Indirect-methods: 20% weightage

**Program Exit Feedback****Alumni Survey**

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

**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**

738

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	Nil

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

[https://accreditation.fisat.ac.in/criterion\\_2.7.1.html](https://accreditation.fisat.ac.in/criterion_2.7.1.html)

**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)**

280800



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

### 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

4

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

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

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

6

File Description	Documents
List of research projects and funding details (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Supporting document from Funding Agency	<a href="#">View File</a>
Paste link to funding agency website	<a href="http://www.kscste.kerala.gov.in,ktu.edu.in/eu/core/cerd.htm">www.kscste.kerala.gov.in,ktu.edu.in/eu/core/cerd.htm</a>

## 3.2 - Innovation Ecosystem

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

Various clubs/cells/centres fosters the culture of innovation inside the campus.

Innovation Entrepreneurship Development Cell (IEDC): flagship initiative of Kerala Startup Mission to promote innovation and entrepreneurial culture

Institution Innovation Council (IIC): exposes young professionals to new ideas and processes:

Federal Labz (Incubation Centre): provide necessary guidance, tech support, infrastructure, networking

FISAT FabLab: small-scale workshop offering digital fabrication facilities

Centre for High Performance Computing (CHPC) aims at building a supercomputing lab working at several gigaflops speed

FFSC - FISAT Free Software Cell dedicated to promoting, development of free software

Centre for Research and Innovations in Signal Processing (CRISP): supports DSP projects, DSP Research & Development.

Centre of Excellence on Robotics and IoT: nodal centre for Project eYantra by IIT Mumbai and eLSI lab. Research areas: Robotics, IoT, AI, ML, Sensor Fusion

Instrumentation Research and Consultancy Centre (IRACC): conducts various research activities in the field of applied sciences and Instrumentation.

Centre for Advanced Research in Power Converters (CARPC): aims at developing efficient, high-performance power converters and controllers

Centre for Automotive and Allied Research (CAAR): provides state of the art research, testing facilities in automobile field

Centre for Advanced Computational Research (CACR): supports enhanced learning in Structural analysis and Computational Fluid Dynamics

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_3.2.1.html">https://accreditation.fisat.ac.in/criterion_3.2.1.html</a>

### 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

5

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

### 3.3 - Research Publications and Awards

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

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

23

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

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

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

37

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

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

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

95

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

### 3.4 - Extension Activities

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

The institution has initiated various extension and outreach activities for the neighbourhood community under SPARC (Science and Technology Park and Research Centre). The major extension activities carried out by the Institute are:

1. FISAT Hostels converted into Covid Domiciliary Care Centre during 2020 - 21
2. 'Community Mobile Medical Clinic', for Geriatric Care in association with Angamaly municipality and Taluk Hospital
3. Developed and installed a disinfecting system "UV 20" for Taluk Hospital Angamaly.
4. Developed 'Covid 19 dashboard'- a platform to provide global analytics to assess the spread of pandemic
5. "Pollution Abatement of Puzhakkal River " in association with the Water Resources department, Government of Kerala
6. In association with Kerala Remote Sensing and Environment Centre, 'Digital Mookkannoor' - an Earth mapping survey of

Mookkannoor panchayat.

7. During cyclone Tauktae in 2021, the institution provided groceries and vegetables to Chellanam Community Kitchen
8. Tree planting drive as part of Environment Day
9. The outreach activities initiated by National Service Scheme Cell of FISAT include
  - Flood relief, rescue, rehabilitation works
  - Renovation, cleaning work in the neighbourhood.
  - Blood donation camp
  - MAPATHON- initiative of IT mission for marking flood level in a locality
  - Providing technical support in Covid vaccination centre.

File Description	Documents
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_3.4.1.html">https://accreditation.fisat.ac.in/criterion_3.4.1.html</a>
Upload any additional information	<a href="#">View File</a>

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

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

00

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

**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**

53

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

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

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

5508

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

### 3.5 - Collaboration

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

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

01

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

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

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

1

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

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

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

The Institution has a well maintained lush green campus with an area of 32.14 acres and total built-up area of 55838.1 sq. metres facilitated for teaching and learning, which include spacious class rooms, tutorial rooms, drawing halls, seminar halls with ICT facilities, auditorium, conference room, boardroom, recreational rooms, 1094 computing systems, smart boards, LCD projectors, LED

TVs, Media Lab with e-content development facilities., Wi-Fi access points and 400 Mbps internet lease line facility to enable high speed network connectivity, state of the art laboratories , workshops.

The institution has central library, department libraries, print and e-journals, NDLI club membership, digital library, Knimbus, m-library mobile app, reprographic facilities, central computing facility consisting of nine labs with 500 Computers all with Intel Core i5 / Core i3 Processors / 4GB RAM/ 8 GB RAM/18.5" TFT Monitor, Debian GNU Linux and Ubuntu Operating Systems.

Affordable and quality residential accommodation to 1200 students on campus.

24x7 electricity & water, Wi-Fi, laundry facility, regular upkeep and cleaning, healthy food, ambulance, medical clinic.

Canteen provides healthy meals.

Transport fleet consists of 30 buses to provide safe transportation to students

A branch of Federal Bank located very close to the institution and an ATM within the campus.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_4.1.1.html">https://accreditation.fisat.ac.in/criterion_4.1.1.html</a>

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

Institution provides adequate facilities for holistic development of students. Two multipurpose open air stages in two courtyards at the north and south block are available for conducting cultural activities like programs teasers, flash mobs, street plays, dramas, mimes etc.

Four spacious halls with audio visual aids, lighting and other



facilities for conducting programs like intra collegiate and intercollegiate technical and cultural fests

**Sports facilities:**

Separate Fitness Centres for boys and girls with area of 5000 Sq. Mt.

Football ground with an area of 90 Mts X 45 Mts

Handball court with 40Mts X 20 Mts

Kho kho Court are of 30mts X 20 mt

Kabaddi court area of 15mts X 15 Mts

Cricket Field (Oval) comprises of 130 Mts X 120 Mts

2 cricket net practice facility with area of 4 Mts X 24 Mts.

Table Tennis Room comprises 2 Table tennis Tables with area of 1500 Sq. Mt.

2 volleyball courts (1 Acrylic & 1 Natural turf) covering 1065Sq. Mt.

1 Acrylic basketball courts covering 704 Sq. Mt.

4 badminton courts covering 4400 Sq. Mt.

Jogging tracks

Fitness center with Full-time trainers

Full time physical education faculty, Part-time Coaches in Football, Cricket, Basketball, Volleyball

Trained yoga trainers

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

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

80

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion4.1.1.html">https://accreditation.fisat.ac.in/criterion4.1.1.html</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

212.62

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	<a href="#">View File</a>
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

**4.2 - Library as a Learning Resource**

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

The institution has a fully automated Main Library covering a total area of 2054.34sqm with modern software and an OPAC system, providing excellent learning resources, catering to needs of students, faculty, and researchers along with nine department libraries. Repository of learning materials of NPTEL and access to various journals from 5002 libraries in South Asia through DELNET is available.

The institution has RFID enabled library circulation and Web OPAC (Online Searching facility for students and teachers) along with barcoded books and smart card enabled library transactions. Using Online Public Access Catalogue (OPAC) library users reserve books, check attendance, university and internal exam marks, syllabus etc. Previous university question papers are available through digital library.

Library procures and ensures effective use of latest hard/soft copies of books, journals, documents, reports, and other learning resources. It has National Digital Library Club (NDLI Club) membership

Provides access to online databases of IEEE, ASME, ASCE, Elsevier Science Direct, EBSCOHost, SWAYAM Engineering, DSPACE, DELNET, NDLI and EBSCO e-books

e -Library platform (Knimbus) helps access digital library facilities (E Journals and E books) from anywhere.

The Mobile eLibrary App 'mLibrary' offers multi-format, content delivery App to access eBooks, latest journals, multimedia learning content remotely.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional Information	<a href="https://fisat.ac.in/pages/library">https://fisat.ac.in/pages/library</a>

**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	No File Uploaded
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

**4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals**

during the year (INR in Lakhs)

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

24.904

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	<a href="#">View File</a>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

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

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

179

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of library usage by teachers and students	<a href="#">View File</a>

### 4.3 - IT Infrastructure

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

FISAT provides state of the art IT infrastructure comprising computing equipment, server, softwares, internet facilities.

Fast browsing facilitated through High speed internet facility through 200mbps (Airtel), 200mbps (BSNL)

Internet can be accessed anywhere in the campus including OPAC enabling web-based learning. Wi-Fi facility is also available through Aruba HP Access Points.

FISAT Campus Automation System developed in-house satisfies the demands of Campus in the areas of Academic, Accounts, Fee Module, HRM and Intranet.

Licensed and open source software available for student academic

## requirements

Fortinet-200e Enterprise Firewall Solution delivers end-to-end network security 1094 computers connected with Wi- Fi/LAN8 dedicated servers exclusively for library and labs

KOHA software with cloud server facility for automation of library.

E-learning support in Digital library with 51 computers.

Remote access of digital resources in library using mLibrary app and Knimbus

Multimedia center with state of the art facilities.

Bulk SMS service to communicate with parents and stakeholders.

Availability of Learning Management Systems like edX, Moodle, Gsuit, Webex, AWS

Biometric devices & security systems with CCTV camera surveillance.

Autonomous research centre in cluster computing using free and open-source technologies and computing resources using indigenously built high performance computer - Dhakshina, The institution has an online complaint tracking system URL: <http://support.fisat.edu>.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://fisat.ac.in/pages/it-infrastructure">https://fisat.ac.in/pages/it-infrastructure</a> , <a href="https://fisat.ac.in/pages/the-central-computing-facility-(ccf)">https://fisat.ac.in/pages/the-central-computing-facility-(ccf)</a> ,

### 4.3.2 - Number of Computers

878

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

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

File Description	Documents
Upload any additional Information	<a href="#">View File</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

## 4.4 - Maintenance of Campus Infrastructure

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

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

153.35

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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

The institution has established systems, procedures, and manpower for maintenance of physical, academic and support facilities. Stock and maintenance registers are kept. UPS and maintenance of equipment like generators, general lighting, power distribution system, solar panels, STP, workshops etc are assigned to specific teams. Annual maintenance contracts signed for Generator, Elevator, Air Conditioners, CCTV cameras and Water purifiers. Cleaning of classrooms and laboratories assigned to housekeeping staff. Hazardous materials, concentrated acids in labs are kept safely. Safety is ensured through goggles, masks, first aid kits, and fire extinguishers. Computer labs are climate-controlled. Antivirus software and Cyberoam firewall provide security. Support team regularly maintains and calibrates equipments and computers. ICT

enabled systems are given AMC. Projectors, computers, printers, photocopiers etc are serviced and reused. Wi-Fi is maintained by service providers like BSNL and Airtel. Website committee maintains Institution website.

Library books are marked, classified and positioned for easy retrieval using KOHA and checked periodically for damages.

Sports equipment, gymnasium, playground, etc are supervised and maintained by Physical Education department. Ground levelling and other repairs are done annually.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion4.4.2.html">https://accreditation.fisat.ac.in/criterion4.4.2.html</a>

## 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

456

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

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

##### 5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the

**institution / non- government agencies during the year**

475

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

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

C. 2 of the above

File Description	Documents
Link to Institutional website	<a href="https://fisat.ac.in/pages/infrastructure">https://fisat.ac.in/pages/infrastructure</a>
Any additional information	No File Uploaded
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>

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

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

**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**

A. All of the above



**awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees**

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

## 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

285

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

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

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

15

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

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

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

52

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

**5.3 - Student Participation and Activities**

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

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

00

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

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

Student representations and engagement at FISAT involves active contribution of students in decision making by representations in the various organisations, committees and cells in the college.

The institution has an apex student body called Student Council, democratically elected every year as per the norms of the university.

The students contribute towards decision-making process and participate in institution building as stakeholders through the following bodies:

IQAC, Sports Council, Anti Ragging Cell, Internal Complaints Committee, Department Advisory Committee, Internal Complaints Committee, Library Advisory Committee, Hostel Committee, Class Committee, Placement and Training Cell, Student Welfare Committee and Women Cell.

FISAT extensively supports student involvement, and ensures active stakeholder participation through professional societies and cells.

Professional Societies include IEEE, ASME, SAE, ISHRAE, ISTE, ACM, CSI, ASCE, ICI, ISA, IEDC, KBAIC, ASAP.

Department Cells include ELECTRA, FIESTA, IDEA, THYRA, SAME, ACE, ECHO, FCS, FFSC, FORUM.

Technical Cells include SPARC, IEDC, IIC, SDC Club, ETWC Club, Energy Audit Cell, Hobby Club, Maths club, NDLI Club.

Arts, Literary and Social Outreach Cells include Arts club, Sports club, Rolling Stone Literary Club, NSS, SWAN Nature Club.

Student contribution and representation is encouraged in 2 research cells viz., CRC and CCRC and institution and department newsletter publications

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

**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**

04

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

## 5.4 - Alumni Engagement

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

FISAT considers our alumni as the torch bearers of the institution. The alumni association of FISAT called FISTAA contributes significantly to the development of the institution through financial and other support services. The Alumni Association of FISAT has regularly conducted alumni meetings to reconnect with alumni and celebrate their achievements and success. Alumni contribute to the development of their junior students by giving technical talks, webinars, in topics related to the latest trends in

industry and sharing their experiences in reaching their goals. Alumni also give share their experience on utilizing higher education opportunities in India and abroad. Alumni are appointed as members of various institutional bodies like IQAC, department advisory boards, evaluators in project exhibitions, judges and resource persons in technical and management fest etc. Alumni also make generous contributions for helping students and staff members requiring costly emergency medical treatments. Alumni also contribute to curriculum design process and also helps to mentor students projects in the start up and incubation centre. Alumni also help with preparing pre-final and final year students for placement by conducting mock technical and personal interviews, group discussions using Skype, WhatsApp etc. Periodic feedback on the curriculum is given by the alumni.

File Description	Documents
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion/5.4.1.html">https://accreditation.fisat.ac.in/criterion/5.4.1.html</a>
Upload any additional information	<a href="#">View File</a>

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

File Description	Documents
Upload any additional information	No File Uploaded

### GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 - Institutional Vision and Leadership

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

The governance of the institution is reflective of an effective leadership in tune with the Vision and Mission of the Institution.

FISAT was established in 2002, by the Federal Bank Officers Association as a professional institution, focussed on excellence and committed to imparting quality technical education ensuring equity and social justice. Managed by a trade union on a 'not-for-profit basis', the resources and profits generated in the institution are ploughed back for the betterment of the staff and students of FISAT. The institution is managed by a Governing Body

elected from the Federal Bank Officers Association. An Internal Governing Council comprising of Principal, Vice Principal, Dean and other nominated members monitor the functioning of the institution and short and long term planning. Academic activities are governed by academic council. IQAC initiates, plans and supervises various activities that are necessary to increase the quality of the education imparted by the institution. Members from the nine departments are nominated to different decision making committees and involved in developing and implementing various policies and procedures like ant-ragging, women's cell etc. Department meetings held at regular intervals as fixed by the respective departments for discussing academic matters and issues. Financial committee takes care of financial matters.

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

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

Yes, Ever since the inception of the institution, administration is carried effectively through a decentralized mechanism. This inclusive and participatory approach promotes an environment of solidarity and mutual respect which ensures the smooth functioning and growth of the institution.

#### Case study:

As part of expansion plans of the institution, new courses are to be introduced periodically. As an institution following decentralization and participative management, it is the Heads of Departments who are entrusted with the responsibility of identifying possible new courses and doing their feasibility study. A senior faculty is assigned the charge of coordinator of new courses. This coordinator along with Heads of Departments finalise the courses that can be offered, identify the requirements including infrastructure and human resources and appraise top management for final consent. They also frame the syllabus and set up labs as per requirement with the support of the faculty of the department. They also ensure submission of necessary supporting documents to various governmental and regulatory bodies for obtaining the required permission and approval for introducing new courses. In 2021, one

new B Tech course- Computer Science and Design and 3 M Tech courses- Automotive Electronics, Artificial Intelligence and Data Science and Renewable energy were introduced.

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

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Yes, The institution strives to provide quality and inclusive education with the help of its stakeholders through effectively deployed strategic / perspective plans.

The IQAC in consultation with the academic council formulated a strategic plan for the period. In keeping with its strategic long term goal of becoming a "Centre of Excellence" by 2030, the institution focusses its short term goals to achieve excellence in Admissions & Selection, Teaching Learning System, Faculty excellence, Student outcome and Infrastructure & eGovernance.

Activity successfully implemented: Infrastructure & e- Governance Development

In order to accommodate the new programmes and to create a conducive educational environment, FISAT decided to construct a new block in the year 2015. The successful completion of the state-of-the-art infrastructure facility was the combined efforts of different committees and stakeholders. In order to meet the information needs of stakeholders such as students, teachers, alumni, etc, an eGovernance system which will meet the changing needs of the hour was also proposed in the strategic plan. As envisioned in the plan, the institution has taken steps to develop software and programmes to facilitate an automated and self-reliant Management Information Systems. The institution has developed the platform in house taking inputs form various stakeholders

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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.

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

Governance of the institution is done by a managing committee administered by FBOAES, Governing body as stipulated by AICTE, Internal Governing Council comprising of top level institutional functionaries, IQAC, Academic Council comprising of Principal, Vice Principal, Dean and all HoDs, various cells and committees like Department Advisory Committee, Programmes Assessment Committee (PAC), Course Assessment Committee (CAC), Purchase Committee, Infrastructure Committee, IT Committee, Maintenance Committee, Library Advisory Committee, Anti- Ragging Committee, Grievance Redressal Cell, Internal Complaints Committee, Discipline Committee, Women Cell, etc. The institution has well defined procedures and policies for recruitment and promotion. The qualifications for recruitment, the promotion policies and the appraisal methods for teaching and non-teaching staff are well drafted and laid down in the HR policy document. Manpower planning is carried out every year by considering the sanctioned posts. The three levels in the academic recruitment are Assistant Professor, Associate Professor and Professor. The appointment and service rules for teaching and non-teaching staff are well laid down in the HR policy document. Policies are framed for all important activities of the institution

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



### 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	<a href="#">View File</a>
Screen shots of user inter faces	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

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

Yes, the institution has effective welfare measures for teaching and non-teaching staff and avenues for career development like Pension, medical insurance coverage for staff and family members, contributory life insurance scheme. Management also yearly staff tour, family get together, Institution Day, Sport Day, Cultural fests etc. Gifts are given to the staff members on Onam, New Year and Institution Day, gifts to staff for wedding and house warming functions. The management also contributed to providing free vaccination for all staff. The Management rebuilt houses for staff members which were destroyed during the flood and provided grocery kits to all staff. The Management ensures EPF, ESI, Gratuity, festival allowance etc. to the staff members. An interest-free loan is provided to faculty members to purchase laptops. The Management has repaid the interest on these loans availed by the faculty. The Management provides free or subsidised education for the children of deserving staff members. Prizes are given to the children of staff who score full A1 in 10th and 12th Board exams. With a transparent and robust leave policy, the staff members can avail casual leave, special leave, study leave, maternity leave (6 months) etc based on their eligibility.

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

### 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	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

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

13

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

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

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

141

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

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

The institution has a well structured performance appraisal system functioning within the it. Teaching staff are appointed on probation and conformed in service only after due appraisal of certain key factors like teaching skills, analytical/logical skills, communication skills, initiative/ motivation, work planning, interpersonal relationships, adaptability etc. Annual appraisal of all teaching staff is done using the Academic Performance Indicator (API) which measures the faculty contribution in measure, indicating the overall performance of a faculty member mainly in three categories.

**Category I: Teaching, Learning and Evaluation Related Activities**

**Category II: Co-Curricular, Extension and Professional Development Related Activities.**

**Category-III: Research and Academic Contributions**

Individual faculty member has to award his/her self-assessment score for each of the items based on objectively verifiable criteria wherever possible. Supporting documents are attached, as required.

Best teacher award and best non-teaching staff award are presented every year so as to motivate and inspire all.

The proforma form needs to be filled and submitted by the faculty members for increment. The HOD remarks on the performance, conduct and character etc of the faculty for the last year

The Non-teaching staff fill up a proforma for increment which is then submitted to the concerned Section in- Charge

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

## 6.4 - Financial Management and Resource Mobilization

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

The institution conducts internal and external financial audits regularly with well-structured processes.

FISAT believes in creating and maintaining a sound financial and accounting system for safeguarding the interest of stakeholders, by inculcating an efficient mechanism to administer the financial system. The finance committee convenes meetings periodically to discuss and deliberate on the finance management.

(i) Internal Audit - Internal auditors are appointed by the Management Committee and the term of service for the auditors is one year. Internal auditors perform audits on a monthly basis. They check documents and close the previous month's transactions after verification.

(ii) External Audit (Statutory) The institution conducts statutory external audit after the close of the financial year. The external financial audit is done by an experienced Chartered Accountant who is appointed for a tenure of two years by the Management after approval in the Annual General Body Meeting. The external auditor

examines the Books of accounts to formulate a fair opinion whether the institution keeps proper books of accounts. The Balance Sheet is examined to get a fair view of the state of affairs of the institution and income and expenditure account is checked. The audited financial statements are published on the institution website.

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

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

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

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	<a href="#">View File</a>

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

Yes, the institution has a well-functioning mechanism for mobilization of funds and optimum utilisation of resources.

##### Budget Preparation and Fund Allocation Process

Before the beginning of every financial year, the faculty members who are in charge of various labs and activities in the department meet together and discuss about the requirements based on the inputs received from the stakeholders and estimate the funds needed under various heads (Laboratory, equipment, consumables, spares, maintenance, conduct of workshops, FDPs, etc.,) This estimate will be sent to the head of the department for verification and approval. Once approved, it is sent to the Principal. The Principal asks the

Accounts Department to consolidate the same and submit it to the Management Committee for approval and allocation of funds. The budget allocation is made for a specific financial year and it is utilized during the same financial year itself. The institution funds its endeavours through a combination of fees collection funds received as sponsorship for various student activities, the consultancy services, faculty development programmes, workshops and seminars conducted by departments. Alumni contribution and renting out the institution building / computer lab to government and public sector agencies for conducting various programmes/examinations also generates funds

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

## 6.5 - Internal Quality Assurance System

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

The two best practices institutionalized as a result of IQAC initiatives

### 1. ACADEMIC PERFORMANCE MONITORING COMMITTEE

Academic Performance Monitoring is one of the key initiatives put forward by IQAC. APMC monitors and tracks the academic progress of students on the basis of internal assessment and suggests remedial measures to improve the results of the poor performers. APMC also meets periodically to review the results and provide suggestions for improvement. The performance of teachers in the course delivery is being monitored continuously and assessments are made. Based on the feedback from the students and as per the academic output, faculty members are encouraged to improve the quality of teaching.

### 2. Audit Practices

**Academic Audit:** Academic audit is conducted at the end of every semester by an internal audit committee constituted by the IQAC to maintain quality in the institution. The committee visits each department and evaluates the process, documentation and adherence to the calendar and submits the report to IQAC . Green audit which

includes Auditing for Water Management. Energy management, Waste management, Green campus management, carbon footprint is done

File Description	Documents
Paste link for additional information	<a href="https://fisat.ac.in/pages/naac-related-content">https://fisat.ac.in/pages/naac-related-content</a>
Upload any additional information	<a href="#">View File</a>

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

The institution reviews its Teaching Learning process, structures & methodologies of operations and learning at periodic intervals through IQAC set up as per norms.

The IQAC of the institution meticulously monitors the teaching learning process to ensure quality education IQAC facilitates a review on academic and research output of departments and provides creative suggestions. IQAC insists on Mapping of PO, PSO and CO at the beginning of a Programme/Course giving a positive direction towards the methodologies to be adopted in teaching and evaluation. IQAC communicates its policies regarding Remedial, Mentoring and OBE to all teaching departments at beginning of the academic year. The IQAC collects regular feedback from students and annual feedback from other stakeholders such as parents, alumni, and employers. An 'Exit Feedback' is taken at the end of program. IQAC prepares feedback analysis report.

Incremental improvements facilitated include remedial measures to cater to student diversity, Faculty development programmes, workshops, seminars are offered for faculty members. IQAC conducts an internal academic audit every semester. IQAC also facilitates external academic audits every year by ISO and KTU auditors. Audits helped the institution to implement OBE process and achieve NBA accreditation for five departments in 2020

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

**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	Nil
Upload e-copies of the accreditations and certifications	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	No File Uploaded

## **INSTITUTIONAL VALUES AND BEST PRACTICES**

### **7.1 - Institutional Values and Social Responsibilities**

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

The institution is a co-education institution with about more than 60% of the staff and over 40% of the students being female. Women play crucial administrative roles in the institution as Chairman, Vice Principal, Dean and IQAC Coordinator and Heads of various Departments. Equal employment and promotion opportunities for male and female staff. Female students are encouraged to take up key roles in the Student Council and various other cells and committees. Equal opportunity is provided to girl students in sports and cultural activities. The institution has an active gender equity cell, Womens cell, Anti ragging Committee, Internal Complaints Committee. Female students are given equal opportunities in



placements A female clinical psychologist is appointed for helping students. Round the clock security, separate common rooms for girls and boys, sufficient toilets for girls with facility for disposal of sanitary pads, awareness sessions on women empowerment, health, cyber security and anti narcotics, video surveillance in campus, secured hostel premises, sick room with facility for doctor visits, ambulance in campus, male and female trainers for gymnasium, complaint boxes at various locations, personality development classes for both boys and girls are some of the facilities arranged and activities promoted for gender equity and sensitization

File Description	Documents
Annual gender sensitization action plan	<a href="https://accreditation.fisat.ac.in/criterion/7.1.1a.html">https://accreditation.fisat.ac.in/criterion/7.1.1a.html</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://accreditation.fisat.ac.in/criterion/7.1.1b.html">https://accreditation.fisat.ac.in/criterion/7.1.1b.html</a>

**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**

**A. 4 or All of the above**

File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

The institution has established an integrated sustainable waste management approach that minimizes waste production and provides economic benefits through scientific waste management. The institution has a robust waste management system to handle the diverse nature of wastes generated from the academic buildings, hostels, canteen, stationary stores and kiosks. FISAT conducts green

audits regularly with the help of Government recognised external agencies. Dedicated vermicompost units are established in the campus for disposal of biodegradable wastes generated through garden trimming and vegetable wastes from the canteen and hostel mess. The organic waste generated from hostels and canteen is used in the biogas plant. Paper wastes generated in the campus are collected by an external agency for recycling. The institution promotes the usage of paperless methods for information sharing and documentation. The institution follows green protocol for all its official meetings. Liquid waste is managed by a sewage treatment plant. Coolant water released from the distillation units are used in gardens. Minimal e-waste generation is ensured by periodic maintenance of computers and other electronic peripherals. The institution has an e-waste disposal agreement with a Govt. agency Kerala Enviro Infrastructure Ltd. (KEIL). The institution has well-structured policies and protocols to handle hazardous chemicals

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	<a href="#">View File</a>
Geo tagged photographs of the facilities	<a href="#">View File</a>

**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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	No File Uploaded

**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	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

**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**

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

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

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

FISAT has made a considerable amount of effort to cater the students from different states, caste, creed & religion. At the beginning of the academic year all the first-year students are taken through an induction program, which highlights the importance of inclusiveness, respect for different culture, caste and creed. Elaborated human values and ethics are discussed and debated during the induction program. Students are informed during the induction program about the usage of social media and ill effects of posting inflammatory messages in social media. Institution organises special student development programs on Fundamental of Computers for the students coming from the rural background and having low computer skills. Various activities/programmes organized in FISAT to celebrate the harmony of this collective inclusiveness include sponsoring NSS students for National Integration camp, celebrating Gandhi Jayanthi, Independence Day, Republic Day etc, visiting old age homes and orphanages, active participation of students and staff members in "Kerala Floods Relief Work" like electrical maintenance, survey of damaged properties and cleaning, cancer awareness sessions, blood donation camps, technical support for vaccination drives, geriatric care by community mobile clinic, contribution to community kitchen for cyclone affected, encouraging differently abled students to display their talents etc

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	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

- FISAT takes initiatives in organizing various events and programmes for moulding the students and staff to become responsible citizens by sensitizing them to the constitutional obligations: values, rights, duties and responsibilities of the citizens. Various initiatives taken by the institution include expert sessions on universal human values, professional ethics, Fundamental duties, Directive Principles and Responsibilities of citizens as part of Induction Day, offering courses on Disaster management and Indian Constitution as part of university curriculum, Republic Day and Independence day celebrations, organisation of 'Reboot Kerala Hackathon 2020' in association with Additional Skill Acquisition Programme (ASAP), Government of Kerala in which young techies tried to find solutions to the problems faced by the health and social justice departments of Government of Kerala, Orientation and awareness programmes on topics such as Child and Women related Laws, Counselling, Consumer Protection Act, Cyber Laws, Digitization and Cashless Transaction, Electoral rights and duties , session on Future Engineering to ensure sustainable development of the society by Dr Muralee Thumarukudi, Chief, Disaster Reduction- UN Environment, expert session with FISAT Alumnus Ms. Reeshma Ramesan IPS (ASP CCR Ranchi, Jhrakhan) on the theme 'Moulding Socially Committed Professionals', organising seminars on World Day against Child Labour etc

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="https://accreditation.fisat.ac.in/criterion7.1.9.html">https://accreditation.fisat.ac.in/criterion7.1.9.html</a>
Any other relevant information	Nil

**7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to 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** B. Any 3 of the above

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

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

The institution celebrates national festivals and commemorative days on campus. All students enthusiastically participate in such events. The institution also organises special programmes on the occasion of the birth or death anniversaries of great Indian personalities. The institution celebrates Gandhi Jayanti every year on 2nd October with community services. As part of this, the NSS unit of the institution organises 'Service Week' with the motto of Swachh Bharat. Various lectures are also organised on Gandhian philosophy, teachings and ideals, National Youth day, National Science Day, and National Unity Day are celebrated with activities like webinars to motivate youth to act for the betterment of the country. Independence day, and

Republic day are celebrated with flag hoisting program and many other patriotic activities , World Environment Day and World Earth Day are celebrated by organising activities like tree planting for sustainability and environment , National Engineers Day is celebrated with activities to highlight the contribution of engineers in the development of the nation. On International Women's Day, programs related to women empowerment and health are conducted. The festivals like Onam, Christmas are celebrated with all gaiety in a grand manner by the students and staff imbibing the festive spirit.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

## 7.2 - Best Practices

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

- Scholarships and fees reduction for needy meritorious students

The institution offers need based and merit based scholarships and fees reduction for students to ensure affordable education to all As part of its social commitment, the institution would like to ensure maximum support to students desirous of pursuing engineering education but facing hardship in finding the monetary resources for it In order to attract meritorious students, scholarships are provided to students based on their marks in the qualifying exams and entrance exams. In addition to this, needy students are given reduction in the fees depending on the circumstance. The challenge in implementing this practice is the fluctuating demand for various courses of engineering and the subsequent uncertainty in the income of the institution. The institution has successfully awarded scholarships to numerous needy meritorious students and also to many meritorious students thus paving the way for upliftment of their families and society This practice requires setting aside a huge financial resource as good portion of the receivable income is

forfeited by the institution for implementing this practice

- e-Governance

E-governance system called as "FISAT Campus Automation System" is established the objective of using ICT to provide institutional services to students and staff, smooth exchange of information, integration of various stand alone services The e-governance system is FISAT is a dynamically evolving one as more and more activities of the institution are being automated. Teaching learning activities like attendance and mark entry, office related activities like fees payment, student registration, faculty leave etc are already being taken care of by this system The e-governance system is developed inhouse with inputs taken from stake holders. Its implementation is a time taking process as more and more features are added to the existing system to enhance its utility.

File Description	Documents
Best practices in the Institutional website	<a href="https://accreditation.fisat.ac.in/criterion7.2.1.html">https://accreditation.fisat.ac.in/criterion7.2.1.html</a>
Any other relevant information	Nil

### 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

#### FISAT Holistic Learning Methodology:

Apart from the regular university curriculum, add on courses, value added courses and course related activities are given to students. To ensure better placements, personality development programs and placement training activities are arranged for students. Students are provide state of the art facilities like Fablab, IEDC, IIC to enhance their practical knowledge and to engage in innovation and entrepreneurship. Students and faculty are encouraged to broaden their knowledge horizons by attending mooc courses like NPTEL and Coursera, seminars and conferences. Faculty and students are also encouraged to do quality research and publish research articles in reputed journals. Students are encouraged to participate in state level and national level competitions like Hackathons. Personality and soft skill development programs are arranged to equip the



students with the necessary skill sets. Students are encouraged to organize project exhibitions and conduct technical programs under the department and institutional technical associations. Students are provided with ample physical fitness facilities and also encouraged to participate in games and other indoor and outdoor sports activities and compete in institutional and university level sports competitions. Students with inclination to arts are given opportunities to participate in institutional level and university level arts competitions.

NAAC

## 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

As an affiliated institution of APJ Abdul Kalam Technological University, FISAT ensures effective curriculum delivery through

- Preparing institution calendar adhering to university regulations and university calendar
- practising OBE
- implementing CBCS
- Offering additional credentials like B Tech Honours and B Tech with Minor
- Offering Add on programs
- planning and monitoring curriculum and course delivery through Academic Committees like Internal Quality Assurance Cell , Department Advisory Committee, Department Quality Assurance Cell, Program Assessment Committee, Course Assessment Committee and the Academic Council
- Faculty competency based subject allocation
- Centralised time table based on university guidelines
- Preparation of Course delivery plan by faculty and regularly updating records of course delivery, attendance, assessments etc
- ICT enabled teaching using content delivery platforms EDX called FISATX, virtual meeting tools like WEBEX & Google Meet and learning management systems like MOODLE & Google Classroom.
- Offering additional pedagogical initiatives like flipped classrooms, blended learning, hands-on training in different labs, industry projects and internships etc

- Conducting Class committee meetings, collecting Feedback on curriculum, teaching, and course outcomes each semester and analysing at institutional and departmental levels
- Measuring curricular delivery, suggesting resolutions and documentation by internal and external audits at the level of IQAC, University (KTU Audit) and Certifying Agency (ISO Audit).

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://accreditation.fisat.ac.in/criterion_1.1.1.html">https://accreditation.fisat.ac.in/criterion_1.1.1.html</a>

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

At the beginning of the academic semester, an institutional calendar is prepared based on the University academic calendar which details the academic, co-curricular and continuous internal evaluation activities to be followed both at departmental and institutional level. Internal evaluation components include components like series tests, laboratory or project evaluations, seminars, assignments and module specific tests. Academic Council decides the dates of the evaluative exams, question papers based on Blooms taxonomy, answer key, scheme of valuation are prepared maintaining strict confidentiality as per the notified dates, Examination cell coordinates the conduct of exam like setting timetable, seating arrangement, invigilator duty, squad teams. Exam halls have surveillance systems and identity cards are mandatory for students entry to exam hall. After secure conduct of the exam, answer scripts are handed over to the faculty for completing evaluation within 7 days. The evaluated answer scripts are discussed with students and marks are updated in FISAT Campus Automation System with viewing access to students. Results are analysed and remedial actions are discussed at department level and by Academic Performance Monitoring Committee. Adherence to academic calendar including the conduct of CIE are monitored by internal audit cell, KTU external audit and internal and external ISO audits.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://accreditation.fisat.ac.in/criterion_1.1.2.html">https://accreditation.fisat.ac.in/criterion_1.1.2.html</a>

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

**A. All of the above**

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

## **1.2 - Academic Flexibility**

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

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

**14**

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

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

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

20

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

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

1104

File Description	Documents
Any additional information	No File Uploaded
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View File</a>

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

Being an affiliated institution, all the programs offered by FISAT follow the curricula given by the University (KTU). Syllabi across courses at UG and PG level integrates cross-cutting issues of professional Ethics, Gender, Human Values, Environment and Sustainability as part of modules or as stand-alone subjects. These principles are practically disseminated through policy inclusion, co-curricular activities and value-added programmes. Professional ethics is imparted through 26 courses in the curriculum and also instilled through Program outcomes and program specific outcomes Awareness programs on Intellectual Property Rights etc are arranged. Gender issues are addressed through 7 courses, functioning of Gender Equity Cell, Womens Cell, active representation of women in the student community and workforce. Human values are dealt with in 14 courses, teachers attend Universal Human Values courses and handle human value classes for first year students, NSS and SWAN clubs organise

extension and social outreach programs. Environment and sustainability is dealt with in 23 courses. Nature club helps students to involve in agricultural activities and spreads awareness on Habitat conservation. The institution promotes 5R themes of Refuse, Reduce, Reuse, Repurpose and Recycle policy through zero waste and no plastic drives, rainwater harvesting, scientific management of organic and non-biodegradable waste, wastewater treatment.

File Description	Documents
Any additional information	<a href="#">View File</a>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View File</a>

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

578

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

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

1419

File Description	Documents
Any additional information	No File Uploaded
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

#### 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	<a href="https://accreditation.fisat.ac.in/criterion_1.4.1.html">https://accreditation.fisat.ac.in/criterion_1.4.1.html</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	No File Uploaded
Any additional information	No File Uploaded

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

A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	<a href="https://accreditation.fisat.ac.in/criterion_1.4.1.html">https://accreditation.fisat.ac.in/criterion_1.4.1.html</a>

#### TEACHING-LEARNING AND EVALUATION

##### 2.1 - Student Enrollment and Profile

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

710

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

710

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

**2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)****2.1.2.1 - Number of actual students admitted from the reserved categories during the year**

231

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

**2.2 - Catering to Student Diversity**

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

Induction Program for different courses help the new students adjust to the new environment and inculcates core values of the institution. Students are given Bridge Courses to reinforce fundamental concepts.

Identification of advanced and slow learners are done through analysis of any of these:

- Academic history of student.
- Bridge Course Performance
- First Series Test
- Mentor Feedback
- Online quizzes
- classroom activities and assessment performance



Programs for Slow learners:

- Remedial classes for difficult subjects
- Sharing of Self-learning materials like recorded videos, question bank with solutions etc.
- Training on communication skills
- Revision classes before university exams.
- Peer group systems and collaborative learning with help of advanced learners
- Merit cum means scholarships and financial aid to economically weak students
- Strong mentor support.

Programmes for Advanced Learners:

- Support to create smart devices through fabrication laboratory (FISAT FabLab).
- Membership of professional bodies (CSI, ASME, IEEE), training for software, languages, competitive exams like GATE.
- Financial support for research projects
- Mentorship for online courses in MOOC, NPTEL and Coursera
- Training to use E-resources in INFLIBNET, N-List, DELNET
- Participation in national seminars and workshops and paper publication in IEEE journals and Springer.
- Merit based scholarships, prizes and certificates to advanced learners.
- Participation in National and state level intercollegiate competitions

File Description	Documents
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_2.2.1.html">https://accreditation.fisat.ac.in/criterion_2.2.1.html</a>
Upload any additional information	<a href="#">View File</a>

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

Number of Students	Number of Teachers
2656	195

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

### 2.3 - Teaching- Learning Process

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

Through an ICT enabled campus, IP enabled library facilities, sophisticated tools and Learning Management Systems, teaching - learning in FISAT ensures active student involvement. Faculty adopt innovative teaching - learning methodologies and pedagogy tools to enhance the learning experiences.

Experiential learning activities through

- State of art laboratories and mini fabrication labs (FabLab)
- e-learning facilities including NDLI club, digital library, e-books, e-journals, e-databases, NPTEL chapter, etc.
- Industry powered centres like Centre for Robotics - eYantra,
- Field visits, industrial visits
- Funded projects, technical publications.
- Mini projects and design-based experiments beyond syllabus.
- Virtual games and board games to simulate real market

scenarios.

- Apps and softwares developed by students to support e-Governance
- Computer assembling, system maintenance by students
- Community service and extension activities

#### Participative Learning through

- Flipped classrooms
- Mini, design and major projects
- Class presentations, participation in national, international conferences, seminars
- Field visits & industry visits
- Invited Lectures
- Interactive quizzes
- Think-pair-share
- Study circles
- Group discussions, debates, seminars
- Computer hardware assembling and maintenance by students
- Agricultural initiatives with student involvement.
- Project expos

#### Problem- solving through

- Workshops, laboratory experiments, case studies, hackathon, field/industrial projects.
- Internships, industry-based mini, major projects
- Peer learning, group tutorial, collaborative learning

- Research publications in Springer, IEEE.
- Brainstorming, Survivor Scenarios, Moral Dilemma Contexts.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://accreditation.fisat.ac.in/criterion 2.3.1.html">https://accreditation.fisat.ac.in/criterion 2.3.1.html</a>

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

- FISAT provides 400 Mbps internet leased line (1:1) and wi-fi. Internet can be accessed anywhere in the campus. A dedicated firewall is implemented. Wi-fi facility is also available through Aruba HP Access Points.
- Teaching & Learning pedagogical methodologies use ICT tools like projectors, smart boards, smart televisions and other online tools for the preparation of presentations and demonstrations and traditional black board teaching, powerpoint presentations, video lectures and collaborative learning methods using FISATX, MOODLE, Google Classrooms, flipped classrooms etc.,
- Online training and certification from NPTEL, Coursera etc. As FISAT is NPTEL Local Chapter faculty members mentor students
- National Digital Library of India Club (NDLI Club) supports all the e-resources such as e-Shiksha, e-books, e-journals etc. Online videos, CDs & DVDs, project and thesis reports are available in library. An IP enabled digital library to access e-journals and transaction papers from IEEE, ASME, ASCE, EBSCO, J-GATE, SWAYAM, DSPACE, DELNET, and SPRINGER and remote access through e-Library platform (Knimbus). 'mLibrarymobile' app offers a multi-format, content delivery App available for both Android and iOS users to access eBook collections, e-Course materials, latest journal issues and multimedia learning content
- Language Lab in which audio-visual installation is used as an aid in English language teaching

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

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

#### 2.3.3.1 - Number of mentors

144

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

### 2.4 - Teacher Profile and Quality

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

192

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

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

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

37	
File Description	Documents
Any additional information	<a href="#">View File</a>
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	<a href="#">View File</a>
<b>2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)</b>	
<b>2.4.3.1 - Total experience of full-time teachers</b>	
00	
File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>
<b>2.5 - Evaluation Process and Reforms</b>	
2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.	
<p>The institution follows the guidelines given by the affiliated university (KTU) for the conduct and evaluation of internal assessment tests. Two series tests are conducted for each subject centrally by examination cell. The other components of internal assessment include assignment and attendance. As per the regulations of university, 50 marks out of total marks of 150 is allotted for internal assessment.</p> <ul style="list-style-type: none"> <li>• The first series exams are conducted after 4-5 weeks and second series exams after 8-9 weeks of commencement of classes as per the timetable issued by exam cell</li> <li>• Question paper, answer key, evaluation scheme based on COs, Blooms Taxonomy prepared by the faculty member is verified by Course Assessment Committee, approved by HoD and handed to exam cell maintaining confidentiality . Conduct of exams is monitored by CCTVs</li> </ul>	

- After evaluation of answer scripts within seven days, the answers are discussed in class and verified by students. Mark entry is done in FISAT Campus Automation System and progress report is despatched to parents.
- Class committee meeting, Academic Performance Monitoring Committee meetings are conducted to analyse the results and suggesting remedial measures.
- Open house and PTA meetings are conducted
- Regular audits by internal audit cell, KTU external audit and ISO audit.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://accreditation.fisat.ac.in/criterion 2.5.1.html">https://accreditation.fisat.ac.in/criterion 2.5.1.html</a>

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

The institution has a multi-tier mechanism to address all examination and evaluation related grievances arising during CIE and university exams respectively as per the Examination Grievance Policy.

#### Institution Level

- The evaluation of internal assessment books is completed in seven days.
- After evaluation of answer books, faculty distributes it in class to the students for verification. Grievances in valuation are immediately redressed by the faculty in charge and if not resolved satisfactorily, it is taken up at the departmental level by Group advisor and HoD.
- The grievances which are not resolved at this level are redressed by an institution level committee with the Principal as Chairman, HOD and Academic Performance Monitoring Committee (APMC) members.
- In addition to this, a progress report of internal examination marks is given to the parents in the open house and through the FISAT Campus Automation System

#### University Examination

- For university examinations, grievances can be represented

to the examination committee in charge and also through online Students' Grievances Portal. The institution addresses these complaints at the institution level and informs the university if required.

- Instances of malpractices in university examinations, are reported to the university and dealt with as per university guidelines existing from time to time

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_2.5.2.html">https://accreditation.fisat.ac.in/criterion_2.5.2.html</a>

## 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 programme outcome (PO), programme specific outcome (PSO) and course outcomes (CO) of all programmes and courses are made available through
- Print media (Student Handbook and Calendar, College and Department Newsletters, Course Diary and Lab Manuals)
- Digital media (Institution's website and Academic Portal).
- The IQAC has made POs, PSOs, and COs part of the course file.
- POs, PSOs and COs are well displayed on the website. .
- POs and PSOs are displayed on the Department Notice Boards, laboratories of the college, Faculty rooms, HoD cabin, Department library and Classrooms
- The Head of the Department and the group advisors explain various programme outcomes to students right from the induction meeting.
- Faculty members handling courses explain course outcomes



and relate it to POs and PSOs and also explain the pattern of questions in the internal question papers and its connection with the course outcomes.

- Each department has published a booklet for POs, PSOs and COs and its soft copy is made available to the students through FISATX and FISAT Campus Automation System.
- Student Handbook and Calendar, College and Department Newsletters having POs/PSOs and COs are disseminated to stakeholders through Open House, PTA meetings, Alumni meets, Workshops, Conference, Seminars/Webinars and FDPs.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View File</a>

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

- COs are evaluated each semester and POs and PSOs every year.
- Achievement of POs & PSOs is computed for each programme considering all COs aligning with each PO & PSO and their individual strength.
- Achievement of POs are determined by comparing with prefixed targets

Measurement is done by direct and indirect assessment tools like:

For COs,

(1). Direct Assessment Tools:

- Theory courses:

1. Internal Evaluation Test,

## 2. Assignments, Tutorials.

- Practical courses

1. Observation, Record work of experiments
2. Viva-Voce
3. End-Semester Examination

- Course projects

1. Design Project/ Project review, presentation.

### 2) Indirect Assessment Tools

Course end survey

### 3) University Examinations

Attainment of CO of all courses against set attainment levels

CO calculation

Target calculation for CO: based on average performance of students in university examinations for consecutive three years and includes 2 parameters

1. Expected Proficiency/Knowledge (EP): average grade secured by at least 50% of total students in last three years.

2. Expected Attainment (EA): average attainment of previous three years multiplied by 1.05 ( 5% rise every year).

CO attainment calculation

Direct-method:40%

University: 50%

Indirect-method:10%

PO and PSO assessment:

1. Direct-methods: 80% weightage

Internal, practical and university examinations, assignments, project evaluation, comprehensive viva, seminar

2. Indirect-methods: 20% weightage

Program Exit Feedback

Alumni Survey

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

**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**

738

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	Nil

**2.7 - Student Satisfaction Survey**

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

[https://accreditation.fisat.ac.in/criterion\\_2.7.1.html](https://accreditation.fisat.ac.in/criterion_2.7.1.html)

**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)****280800**

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

**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****4**

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

**3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year****3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year****6**

File Description	Documents
List of research projects and funding details (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Supporting document from Funding Agency	<a href="#">View File</a>
Paste link to funding agency website	<a href="http://www.kscste.kerala.gov.in,ktu.edu.in/eu/core/cerd.htm">www.kscste.kerala.gov.in,ktu.edu.in/eu/core/cerd.htm</a>

## 3.2 - Innovation Ecosystem

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

Various clubs/cells/centres fosters the culture of innovation inside the campus.

Innovation Entrepreneurship Development Cell (IEDC): flagship initiative of Kerala Startup Mission to promote innovation and entrepreneurial culture

Institution Innovation Council (IIC): exposes young professionals to

new ideas and processes:

Federal Labz (Incubation Centre): provide necessary guidance, tech support, infrastructure, networking

FISAT FabLab: small-scale workshop offering digital fabrication facilities

Centre for High Performance Computing (CHPC) aims at building a supercomputing lab working at several gigaflops speed

FFSC - FISAT Free Software Cell dedicated to promoting, development of free software

Centre for Research and Innovations in Signal Processing (CRISP): supports DSP projects, DSP Research & Development.

Centre of Excellence on Robotics and IoT: nodal centre for Project eYantra by IIT Mumbai and eLSI lab. Research areas: Robotics, IoT, AI, ML, Sensor Fusion

Instrumentation Research and Consultancy Centre (IRACC): conducts various research activities in the field of applied sciences and Instrumentation.

Centre for Advanced Research in Power Converters (CARPC): aims at developing efficient, high-performance power converters and controllers

Centre for Automotive and Allied Research (CAAR): provides state of the art research, testing facilities in automobile field

**Centre for Advanced Computational Research (CACR): supports enhanced learning in Structural analysis and Computational Fluid Dynamics**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_3.2.1.html">https://accreditation.fisat.ac.in/criterion_3.2.1.html</a>

### **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**

5

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

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

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

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

23

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

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

during the year

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

37

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

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

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

95

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

### 3.4 - Extension Activities

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

The institution has initiated various extension and outreach activities for the neighbourhood community under SPARC (Science and Technology Park and Research Centre). The major extension activities carried out by the Institute are:

1. FISAT Hostels converted into Covid Domiciliary Care Centre during 2020 - 21
2. 'Community Mobile Medical Clinic', for Geriatric Care in association with Angamaly municipality and Taluk Hospital
3. Developed and installed a disinfecting system "UV 20" for Taluk Hospital Angamaly.
4. Developed 'Covid 19 dashboard'- a platform to provide global analytics to assess the spread of pandemic
5. "Pollution Abatement of Puzhakkal River '' in association

- with the Water Resources department, Government of Kerala
6. In association with Kerala Remote Sensing and Environment Centre, 'Digital Mookkannoor' - an Earth mapping survey of Mookkannoor panchayat.
  7. During cyclone Tauktae in 2021, the institution provided groceries and vegetables to Chellanam Community Kitchen
  8. Tree planting drive as part of Environment Day
  9. The outreach activities initiated by National Service Scheme Cell of FISAT include
    - Flood relief, rescue, rehabilitation works
    - Renovation, cleaning work in the neighbourhood.
    - Blood donation camp
    - MAPATHON- initiative of IT mission for marking flood level in a locality
    - Providing technical support in Covid vaccination centre.

File Description	Documents
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_3.4.1.html">https://accreditation.fisat.ac.in/criterion_3.4.1.html</a>
Upload any additional information	<a href="#">View File</a>

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

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

00



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

**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**

53

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

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

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

5508

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

**3.5 - Collaboration****3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year****3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year**

01

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

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

1

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

**INFRASTRUCTURE AND LEARNING RESOURCES****4.1 - Physical Facilities**

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

The Institution has a well maintained lush green campus with an area of 32.14 acres and total built-up area of 55838.1 sq. metres facilitated for teaching and learning, which include spacious

class rooms, tutorial rooms, drawing halls, seminar halls with ICT facilities, auditorium, conference room, boardroom, recreational rooms, 1094 computing systems, smart boards, LCD projectors, LED TVs, Media Lab with e-content development facilities., Wi-Fi access points and 400 Mbps internet lease line facility to enable high speed network connectivity, state of the art laboratories , workshops.

The institution has central library, department libraries, print and e-journals, NDLI club membership, digital library, Knimbus, m-library mobile app, reprographic facilities, central computing facility consisting of nine labs with 500 Computers all with Intel Core i5 / Core i3 Processors / 4GB RAM/ 8 GB RAM/18.5" TFT Monitor, Debian GNU Linux and Ubuntu Operating Systems.

Affordable and quality residential accommodation to 1200 students on campus.

24x7 electricity & water, Wi-Fi, laundry facility, regular upkeep and cleaning, healthy food, ambulance, medical clinic.

Canteen provides healthy meals.

Transport fleet consists of 30 buses to provide safe transportation to students

A branch of Federal Bank located very close to the institution and an ATM within the campus.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_4.1.1.html">https://accreditation.fisat.ac.in/criterion_4.1.1.html</a>

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

Institution provides adequate facilities for holistic development of students. Two multipurpose open air stages in two courtyards at the north and south block are available for conducting cultural activities like programs teasers, flash mobs, street plays, dramas, mimes etc.

Four spacious halls with audio visual aids, lighting and other facilities for conducting programs like intra collegiate and intercollegiate technical and cultural fests

Sports facilities:

Separate Fitness Centres for boys and girls with area of 5000 Sq. Mt.

Football ground with an area of 90 Mts X 45 Mts

Handball court with 40Mts X 20 Mts

Kho kho Court are of 30mts X 20 mt

Kabaddi court area of 15mts X 15 Mts

Cricket Field (Oval) comprises of 130 Mts X 120 Mts

2 cricket net practice facility with area of 4 Mts X 24 Mts.

Table Tennis Room comprises 2 Table tennis Tables with area of 1500 Sq. Mt.

2 volleyball courts (1 Acrylic & 1 Natural turf) covering 1065Sq. Mt.

1 Acrylic basketball courts covering 704 Sq. Mt.

4 badminton courts covering 4400 Sq. Mt.

Jogging tracks

Fitness center with Full-time trainers

Full time physical education faculty, Part-time Coaches in Football, Cricket, Basketball, Volleyball

Trained yoga trainers

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

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

80

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion 4.1.1.html">https://accreditation.fisat.ac.in/criterion 4.1.1.html</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

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

212.62

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	<a href="#">View File</a>
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

#### 4.2 - Library as a Learning Resource

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

The institution has a fully automated Main Library covering a

total area of 2054.34Sqm with modern software and an OPAC system, providing excellent learning resources, catering to needs of students, faculty, and researchers along with nine department libraries. Repository of learning materials of NPTEL and access to various journals from 5002 libraries in South Asia through DELNET is available.

The institution has RFID enabled library circulation and Web OPAC (Online Searching facility for students and teachers) along with barcoded books and smart card enabled library transactions. Using Online Public Access Catalogue (OPAC) library users reserve books, check attendance, university and internal exam marks, syllabus etc. Previous university question papers are available through digital library.

Library procures and ensures effective use of latest hard/soft copies of books, journals, documents, reports, and other learning resources . It has National Digital Library Club (NDLI Club) membership

Provides access to online databases of IEEE, ASME, ASCE, Elsevier Science Direct, EBSCOHost, SWAYAM Engineering, DSPACE, DELNET, NDLI and EBSCO e-books

e -Library platform (Knimbus) helps access digital library facilities (E Journals and E books) from anywhere.

The Mobile eLibrary App 'mLibrary' offers multi-format, content delivery App to access eBooks, latest journals, multimedia learning content remotely.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional Information	<a href="https://fisat.ac.in/pages/library">https://fisat.ac.in/pages/library</a>

**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	No File Uploaded
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

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

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

24.904

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	<a href="#">View File</a>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

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

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

179

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of library usage by teachers and students	<a href="#">View File</a>

#### 4.3 - IT Infrastructure

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

FISAT provides state of the art IT infrastructure comprising computing equipment, server, softwares, internet facilities.

Fast browsing facilitated through High speed internet facility through 200mbps (Airtel), 200mbps (BSNL)

Internet can be accessed anywhere in the campus including OPAC enabling web-based learning. Wi-Fi facility is also available through Aruba HP Access Points.

FISAT Campus Automation System developed in-house satisfies the demands of Campus in the areas of Academic, Accounts, Fee Module, HRM and Intranet.

Licensed and open source software available for student academic requirements

Fortinet-200e Enterprise Firewall Solution delivers end-to-end network security 1094 computers connected with Wi- Fi/LAN8 dedicated servers exclusively for library and labs

KOHA software with cloud server facility for automation of library.

E-learning support in Digital library with 51 computers.

Remote access of digital resources in library using mLibrary app and Knimbus

Multimedia center with state of the art facilities.

Bulk SMS service to communicate with parents and stakeholders.

Availability of Learning Management Systems like edX, Moodle, Gsuit, Webex, AWS

Biometric devices & security systems with CCTV camera surveillance.

Autonomous research centre in cluster computing using free and open-source technologies and computing resources using indigenously built high performance computer - Dhakshina, The institution has an online complaint tracking system URL: <http://support.fisat.edu>.



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://fisat.ac.in/pages/it-infrastructure">https://fisat.ac.in/pages/it-infrastructure</a> , <a href="https://fisat.ac.in/pages/the-central-computing-facility-(ccf)">https://fisat.ac.in/pages/the-central-computing-facility-(ccf)</a> ,

**4.3.2 - Number of Computers**

878

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

**4.3.3 - Bandwidth of internet connection in the Institution**

A. ? 50MBPS

File Description	Documents
Upload any additional Information	<a href="#">View File</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

**4.4 - Maintenance of Campus Infrastructure****4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)****4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)**

153.35

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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

The institution has established systems, procedures, and manpower for maintenance of physical, academic and support facilities. Stock and maintenance registers are kept. UPS and maintenance of equipment like generators, general lighting, power distribution system, solar panels, STP, workshops etc are assigned to specific teams. Annual maintenance contracts signed for Generator, Elevator, Air Conditioners, CCTV cameras and Water purifiers. Cleaning of classrooms and laboratories assigned to housekeeping staff. Hazardous materials, concentrated acids in labs are kept safely. Safety is ensured through goggles, masks, first aid kits, and fire extinguishers. Computer labs are climate-controlled. Antivirus software and Cyberoam firewall provide security. Support team regularly maintains and calibrates equipments and computers. ICT enabled systems are given AMC. Projectors, computers, printers, photocopiers etc are serviced and reused. Wi-Fi is maintained by service providers like BSNL and Airtel. Website committee maintains Institution website.

Library books are marked, classified and positioned for easy retrieval using KOHA and checked periodically for damages.

Sports equipment, gymnasium, playground, etc are supervised and maintained by Physical Education department. Ground levelling and other repairs are done annually.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion 4.4.2.html">https://accreditation.fisat.ac.in/criterion 4.4.2.html</a>

STUDENT SUPPORT AND PROGRESSION	
<b>5.1 - Student Support</b>	
<b>5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year</b>	
<b>5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year</b>	
456	
File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	<a href="#">View File</a>
<b>5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year</b>	
<b>5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year</b>	
475	
File Description	Documents
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View File</a>
<b>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</b>	<b>C. 2 of the above</b>

File Description	Documents
Link to Institutional website	<a href="https://fisat.ac.in/pages/infrastructure">https://fisat.ac.in/pages/infrastructure</a>
Any additional information	No File Uploaded
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>

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

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

**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	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

<b>5.2 - Student Progression</b>	
<b>5.2.1 - Number of placement of outgoing students during the year</b>	
<b>5.2.1.1 - Number of outgoing students placed during the year</b>	
285	
File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Details of student placement during the year (Data Template)	<a href="#">View File</a>
<b>5.2.2 - Number of students progressing to higher education during the year</b>	
<b>5.2.2.1 - Number of outgoing student progression to higher education</b>	
15	
File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of student progression to higher education	<a href="#">View File</a>
<b>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)</b>	
<b>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</b>	
52	

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

### 5.3 - Student Participation and Activities

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

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

00

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

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

Student representations and engagement at FISAT involves active contribution of students in decision making by representations in the various organisations, committees and cells in the college.

The institution has an apex student body called Student Council, democratically elected every year as per the norms of the university.

The students contribute towards decision-making process and

participate in institution building as stakeholders through the following bodies:

IQAC, Sports Council, Anti Ragging Cell, Internal Complaints Committee, Department Advisory Committee, Internal Complaints Committee, Library Advisory Committee, Hostel Committee, Class Committee, Placement and Training Cell, Student Welfare Committee and Women Cell.

FISAT extensively supports student involvement, and ensures active stakeholder participation through professional societies and cells.

Professional Societies include IEEE, ASME, SAE, ISHRAE, ISTE, ACM, CSI, ASCE, ICI, ISA, IEDC, KBAIC, ASAP.

Department Cells include ELECTRA, FIESTA, IDEA, THYRA, SAME, ACE, ECHO, FCS, FFSC, FORUM.

Technical Cells include SPARC, IEDC, IIC, SDC Club, ETWC Club, Energy Audit Cell, Hobby Club, Maths club, NDLI Club.

Arts, Literary and Social Outreach Cells include Arts club, Sports club, Rolling Stone Literary Club, NSS, SWAN Nature Club.

Student contribution and representation is encouraged in 2 research cells viz., CRC and CCRC and institution and department newsletter publications

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

**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**

04

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

#### 5.4 - Alumni Engagement

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

FISAT considers our alumni as the torch bearers of the institution. The alumni association of FISAT called FISTAA contributes significantly to the development of the institution through financial and other support services. The Alumni Association of FISAT has regularly conducted alumni meetings to reconnect with alumni and celebrate their achievements and success. Alumni contribute to the development of their junior students by giving technical talks, webinars, in topics related to the latest trends in industry and sharing their experiences in reaching their goals. Alumni also give share their experience on utilizing higher education opportunities in India and abroad. Alumni are appointed as members of various institutional bodies like IQAC, department advisory boards, evaluators in project exhibitions, judges and resource persons in technical and management fest etc. Alumni also make generous contributions for helping students and staff members requiring costly emergency medical treatments. Alumni also contribute to curriculum design process and also helps to mentor students projects in the start up and incubation centre. Alumni also help with preparing pre-final and final year students for placement by conducting mock technical and personal interviews, group discussions using Skype, WhatsApp etc. Periodic feedback on the curriculum is given by the alumni.



File Description	Documents
Paste link for additional information	<a href="https://accreditation.fisat.ac.in/criterion_5.4.1.html">https://accreditation.fisat.ac.in/criterion_5.4.1.html</a>
Upload any additional information	<a href="#">View File</a>

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

File Description	Documents
Upload any additional information	No File Uploaded

### GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 - Institutional Vision and Leadership

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

The governance of the institution is reflective of an effective leadership in tune with the Vision and Mission of the Institution.

FISAT was established in 2002, by the Federal Bank Officers Association as a professional institution, focussed on excellence and committed to imparting quality technical education ensuring equity and social justice. Managed by a trade union on a 'not-for-profit basis', the resources and profits generated in the institution are ploughed back for the betterment of the staff and students of FISAT. The institution is managed by a Governing Body elected from the Federal Bank Officers Association. An Internal Governing Council comprising of Principal, Vice Principal, Dean and other nominated members monitor the functioning of the institution and short and long term planning. Academic activities are governed by academic council. IQAC initiates, plans and supervises various activities that are necessary to increase the quality of the education imparted by the institution. Members from the nine departments are nominated to different decision making committees and involved in developing and implementing various policies and procedures like anti-ragging, women's cell etc. Department meetings held at regular intervals as fixed by the respective departments for discussing academic matters and issues. Financial committee takes care of financial matters.

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

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

Yes, Ever since the inception of the institution, administration is carried effectively through a decentralized mechanism. This inclusive and participatory approach promotes an environment of solidarity and mutual respect which ensures the smooth functioning and growth of the institution.

Case study:

As part of expansion plans of the institution, new courses are to be introduced periodically. As an institution following decentralization and participative management, it is the Heads of Departments who are entrusted with the responsibility of identifying possible new courses and doing their feasibility study. A senior faculty is assigned the charge of coordinator of new courses. This coordinator along with Heads of Departments finalise the courses that can be offered, identify the requirements including infrastructure and human resources and appraise top management for final consent. They also frame the syllabus and set up labs as per requirement with the support of the faculty of the department. They also ensure submission of necessary supporting documents to various governmental and regulatory bodies for obtaining the required permission and approval for introducing new courses. In 2021, one new B Tech course- Computer Science and Design and 3 M Tech courses- Automotive Electronics, Artificial Intelligence and Data Science and Renewable energy were introduced.

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

**6.2 - Strategy Development and Deployment**

## 6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Yes, The institution strives to provide quality and inclusive education with the help of its stakeholders through effectively deployed strategic / perspective plans.

The IQAC in consultation with the academic council formulated a strategic plan for the period. In keeping with its strategic long term goal of becoming a "Centre of Excellence" by 2030, the institution focusses its short term goals to achieve excellence in Admissions & Selection, Teaching Learning System, Faculty excellence, Student outcome and Infrastructure & eGovernance.

Activity successfully implemented: Infrastructure & e- Governance Development

In order to accommodate the new programmes and to create a conducive educational environment, FISAT decided to construct a new block in the year 2015. The successful completion of the state-of-the-art infrastructure facility was the combined efforts of different committees and stakeholders. In order to meet the information needs of stakeholders such as students, teachers, alumni, etc, an eGovernance system which will meet the changing needs of the hour was also proposed in the strategic plan. As envisioned in the plan, the institution has taken steps to develop software and programmes to facilitate an automated and self-reliant Management Information Systems. The institution has developed the platform in house taking inputs form various stakeholders

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

## 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.

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

Governance of the institution is done by a managing committee administered by FBOAES, Governing body as stipulated by AICTE, Internal Governing Council comprising of top level institutional functionaries, IQAC, Academic Council comprising of Principal, Vice Principal, Dean and all HoDs, various cells and committees like Department Advisory Committee, Programmes Assessment Committee (PAC), Course Assessment Committee (CAC), Purchase Committee, Infrastructure Committee, IT Committee, Maintenance Committee, Library Advisory Committee, Anti- Ragging Committee, Grievance Redressal Cell, Internal Complaints Committee, Discipline Committee, Women Cell, etc. The institution has well defined procedures and policies for recruitment and promotion. The qualifications for recruitment, the promotion policies and the appraisal methods for teaching and non-teaching staff are well drafted and laid down in the HR policy document. Manpower planning is carried out every year by considering the sanctioned posts. The three levels in the academic recruitment are Assistant Professor, Associate Professor and Professor. The appointment and service rules for teaching and non-teaching staff are well laid down in the HR policy document. Policies are framed for all important activities of the institution

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

**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	<a href="#">View File</a>
Screen shots of user inter faces	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

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

Yes, the institution has effective welfare measures for teaching and non-teaching staff and avenues for career development like Pension, medical insurance coverage for staff and family members, contributory life insurance scheme. Management also yearly staff tour, family get together, Institution Day, Sport Day, Cultural fests etc. Gifts are given to the staff members on Onam, New Year and Institution Day, gifts to staff for wedding and house warming functions. The management also contributed to providing free vaccination for all staff. The Management rebuilt houses for staff members which were destroyed during the flood and provided grocery kits to all staff. The Management ensures EPF, ESI, Gratuity, festival allowance etc. to the staff members. An interest-free loan is provided to faculty members to purchase laptops. The Management has repaid the interest on these loans availed by the faculty. The Management provides free or subsidised education for the children of deserving staff members. Prizes are given to the children of staff who score full A1 in 10th and 12th Board exams. With a transparent and robust leave policy, the staff members can avail casual leave, special leave, study leave, maternity leave (6 months) etc based on their eligibility.

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

#### 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	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

13

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

**6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)****6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year**

141

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

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

The institution has a well structured performance appraisal system functioning within the it. Teaching staff are appointed on probation and conformed in service only after due appraisal of certain key factors like teaching skills, analytical/logical skills, communication skills, initiative/ motivation, work planning, interpersonal relationships, adaptability etc. Annual appraisal of all teaching staff is done using the Academic Performance Indicator (API) which measures the faculty contribution in measure, indicating the overall performance of a faculty member mainly in three categories.

**Category I: Teaching, Learning and Evaluation Related Activities**

**Category II: Co-Curricular, Extension and Professional Development Related Activities.**

**Category-III: Research and Academic Contributions**

Individual faculty member has to award his/her self-assessment score for each of the items based on objectively verifiable criteria wherever possible. Supporting documents are attached, as required.

Best teacher award and best non-teaching staff award are presented every year so as to motivate and inspire all.

The proforma form needs to be filled and submitted by the faculty members for increment. The HOD remarks on the performance, conduct and character etc of the faculty for the last year

The Non-teaching staff fill up a proforma for increment which is then submitted to the concerned Section in- Charge

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

#### 6.4 - Financial Management and Resource Mobilization

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

The institution conducts internal and external financial audits regularly with well-structured processes.

FISAT believes in creating and maintaining a sound financial and accounting system for safeguarding the interest of stakeholders, by inculcating an efficient mechanism to administer the financial system. The finance committee convenes meetings periodically to discuss and deliberate on the finance management.

(i) Internal Audit - Internal auditors are appointed by the Management Committee and the term of service for the auditors is one year. Internal auditors perform audits on a monthly basis. They check documents and close the previous month's transactions after verification.

(ii) External Audit (Statutory) The institution conducts statutory external audit after the close of the financial year. The external financial audit is done by an experienced Chartered Accountant who is appointed for a tenure of two years by the Management after approval in the Annual General Body Meeting. The external auditor examines the Books of accounts to formulate a fair opinion whether the institution keeps proper books of accounts. The Balance Sheet is examined to get a fair view of the state of affairs of the institution and income and expenditure account is checked. The audited financial statements are published on the institution website.



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

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

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

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	<a href="#">View File</a>

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

Yes, the institution has a well-functioning mechanism for mobilization of funds and optimum utilisation of resources.

##### Budget Preparation and Fund Allocation Process

Before the beginning of every financial year, the faculty members who are in charge of various labs and activities in the department meet together and discuss about the requirements based on the inputs received from the stakeholders and estimate the funds needed under various heads (Laboratory, equipment, consumables, spares, maintenance, conduct of workshops, FDPs, etc.,) This estimate will be sent to the head of the department for verification and approval. Once approved, it is sent to the Principal. The Principal asks the Accounts Department to consolidate the same and submit it to the Management Committee for approval and allocation of funds. The budget allocation is made for a specific financial year and it is utilized during the same financial year itself. The institution funds its endeavours through a combination of fees collection funds received as

sponsorship for various student activities, the consultancy services, faculty development programmes, workshops and seminars conducted by departments. Alumni contribution and renting out the institution building / computer lab to government and public sector agencies for conducting various programmes/examinations also generates funds

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

## 6.5 - Internal Quality Assurance System

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

The two best practices institutionalized as a result of IQAC initiatives

### 1. ACADEMIC PERFORMANCE MONITORING COMMITTEE

Academic Performance Monitoring is one of the key initiatives put forward by IQAC. APMC monitors and tracks the academic progress of students on the basis of internal assessment and suggests remedial measures to improve the results of the poor performers. APMC also meets periodically to review the results and provide suggestions for improvement. The performance of teachers in the course delivery is being monitored continuously and assessments are made. Based on the feedback from the students and as per the academic output, faculty members are encouraged to improve the quality of teaching.

### 2. Audit Practices

Academic Audit: Academic audit is conducted at the end of every semester by an internal audit committee constituted by the IQAC to maintain quality in the institution. The committee visits each department and evaluates the process, documentation and adherence to the calendar and submits the report to IQAC. Green audit which includes Auditing for Water Management. Energy management, Waste management, Green campus management, carbon footprint is done

File Description	Documents
Paste link for additional information	<a href="https://fisat.ac.in/pages/naac-related-content">https://fisat.ac.in/pages/naac-related-content</a>
Upload any additional information	<a href="#">View File</a>

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

The institution reviews its Teaching Learning process, structures & methodologies of operations and learning at periodic intervals through IQAC set up as per norms.

The IQAC of the institution meticulously monitors the teaching learning process to ensure quality education IQAC facilitates a review on academic and research output of departments and provides creative suggestions. IQAC insists on Mapping of PO, PSO and CO at the beginning of a Programme/Course giving a positive direction towards the methodologies to be adopted in teaching and evaluation. IQAC communicates its policies regarding Remedial, Mentoring and OBE to all teaching departments at beginning of the academic year. The IQAC collects regular feedback from students and annual feedback from other stakeholders such as parents, alumni, and employers. An 'Exit Feedback' is taken at the end of program. IQAC prepares feedback analysis report.

Incremental improvements facilitated include remedial measures to cater to student diversity, Faculty development programmes, workshops, seminars are offered for faculty members. IQAC conducts an internal academic audit every semester. IQAC also facilitates external academic audits every year by ISO and KTU auditors. Audits helped the institution to implement OBE process and achieve NBA accreditation for five departments in 2020

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

<b>6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)</b>	<b>A. All of the above</b>
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File Description	Documents
Paste web link of Annual reports of Institution	Nil
Upload e-copies of the accreditations and certifications	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	No File Uploaded

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

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

The institution is a co-education institution with about more than 60% of the staff and over 40% of the students being female. Women play crucial administrative roles in the institution as Chairman, Vice Principal, Dean and IQAC Coordinator and Heads of various Departments. Equal employment and promotion opportunities for male and female staff. Female students are encouraged to take up key roles in the Student Council and various other cells and committees. Equal opportunity is provided to girl students in sports and cultural activities. The institution has an active gender equity cell, Womens cell, Anti ragging Committee, Internal Complaints Committee. Female students are given equal opportunities in placements A female clinical psychologist is appointed for helping students. Round the clock security, separate common rooms for girls and boys, sufficient toilets for girls with facility for disposal of sanitary pads, awareness sessions on women empowerment, health, cyber security and anti narcotics, video surveillance in campus, secured hostel premises,

sick room with facility for doctor visits, ambulance in campus, male and female trainers for gymnasium, complaint boxes at various locations, personality development classes for both boys and girls are some of the facilities arranged and activities promoted for gender equity and sensitization

File Description	Documents
Annual gender sensitization action plan	<a href="https://accreditation.fisat.ac.in/criterion 7.1.1a.html">https://accreditation.fisat.ac.in/criterion 7.1.1a.html</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://accreditation.fisat.ac.in/criterion 7.1.1b.html">https://accreditation.fisat.ac.in/criterion 7.1.1b.html</a>

**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**

**A. 4 or All of the above**

File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

The institution has established an integrated sustainable waste management approach that minimizes waste production and provides economic benefits through scientific waste management. The institution has a robust waste management system to handle the diverse nature of wastes generated from the academic buildings, hostels, canteen, stationary stores and kiosks. FISAT conducts green audits regularly with the help of Government recognised external agencies. Dedicated vermicompost units are established in the campus for disposal of biodegradable wastes generated through garden trimming and vegetable wastes from the canteen and hostel mess. The organic waste generated from hostels and canteen

is used in the biogas plant. Paper wastes generated in the campus are collected by an external agency for recycling. The institution promotes the usage of paperless methods for information sharing and documentation. The institution follows green protocol for all its official meetings. Liquid waste is managed by a sewage treatment plant. Coolant water released from the distillation units are used in gardens. Minimal e-waste generation is ensured by periodic maintenance of computers and other electronic peripherals. The institution has an e-waste disposal agreement with a Govt. agency Kerala Enviro Infrastructure Ltd. (KEIL). The institution has well-structured policies and protocols to handle hazardous chemicals

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	<a href="#">View File</a>
Geo tagged photographs of the facilities	<a href="#">View File</a>

**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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	No File Uploaded

### 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	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

**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**

A. Any 4 or all of the above

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

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

FISAT has made a considerable amount of effort to cater the students from different states, caste, creed & religion. At the beginning of the academic year all the first-year students are taken through an induction program, which highlights the importance of inclusiveness, respect for different culture, caste and creed. Elaborated human values and ethics are discussed and debated during the induction program. Students are informed during the induction program about the usage of social media and ill effects of posting inflammatory messages in social media. Institution organises special student development programs on Fundamental of Computers for the students coming from the rural background and having low computer skills. Various activities/programmes organized in FISAT to celebrate the harmony of this collective inclusiveness include sponsoring NSS students for National Integration camp, celebrating Gandhi Jayanthi, Independence Day, Republic Day etc, visiting old age homes and orphanages, active participation of students and staff members in "Kerala Floods Relief Work" like electrical maintenance, survey of damaged properties and cleaning, cancer awareness sessions, blood donation camps, technical support for vaccination drives, geriatric care by community mobile clinic, contribution to community kitchen for cyclone affected, encouraging differently abled students to display their talents etc



File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	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

- FISAT takes initiatives in organizing various events and programmes for moulding the students and staff to become responsible citizens by sensitizing them to the constitutional obligations: values, rights, duties and responsibilities of the citizens. Various initiatives taken by the institution include expert sessions on universal human values, professional ethics, Fundamental duties, Directive Principles and Responsibilities of citizens as part of Induction Day, offering courses on Disaster management and Indian Constitution as part of university curriculum, Republic Day and Independence day celebrations, organisation of 'Reboot Kerala Hackathon 2020' in association with Additional Skill Acquisition Programme (ASAP), Government of Kerala in which young techies tried to find solutions to the problems faced by the health and social justice departments of Government of Kerala, Orientation and awareness programmes on topics such as Child and Women related Laws, Counselling, Consumer Protection Act, Cyber Laws, Digitization and Cashless Transaction, Electoral rights and duties, session on Future Engineering to ensure sustainable development of the society by Dr Muralee Thumarukudi, Chief, Disaster Reduction- UN Environment, expert session with FISAT Alumnus Ms. Reeshma Ramesan IPS (ASP CCR Ranchi, Jhrakhan) on the theme 'Moulding Socially Committed Professionals', organising seminars on World Day against Child Labour etc

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="https://accreditation.fisat.ac.in/criterion_7.1.9.html">https://accreditation.fisat.ac.in/criterion_7.1.9.html</a>
Any other relevant information	Nil

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

**B. Any 3 of the above**

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

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

The institution celebrates national festivals and commemorative days on campus. All students enthusiastically participate in such events. The institution also organises special programmes on the occasion of the birth or death anniversaries of great Indian personalities. The institution celebrates Gandhi Jayanti every year on 2nd October with community services. As part of this, the NSS unit of the institution organises 'Service Week' with the motto of Swachh Bharat. Various lectures are also organised on Gandhian philosophy, teachings and ideals, National Youth day,

National Science Day, and National Unity Day are celebrated with activities like webinars to motivate youth to act for the betterment of the country. Independence day, and Republic day are celebrated with flag hoisting program and many other patriotic activities, World Environment Day and World Earth Day are celebrated by organising activities like tree planting for sustainability and environment, National Engineers Day is celebrated with activities to highlight the contribution of engineers in the development of the nation. On International Women's Day, programs related to women empowerment and health are conducted. The festivals like Onam, Christmas are celebrated with all gaiety in a grand manner by the students and staff imbibing the festive spirit.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

## 7.2 - Best Practices

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

- **Scholarships and fees reduction for needy meritorious students**

The institution offers need based and merit based scholarships and fees reduction for students to ensure affordable education to all. As part of its social commitment, the institution would like to ensure maximum support to students desirous of pursuing engineering education but facing hardship in finding the monetary resources for it. In order to attract meritorious students, scholarships are provided to students based on their marks in the qualifying exams and entrance exams. In addition to this, needy students are given reduction in the fees depending on the circumstance. The challenge in implementing this practice is the fluctuating demand for various courses of engineering and the

subsequent uncertainty in the income of the institution. The institution has successfully awarded scholarships to numerous needy meritorious students and also to many meritorious students thus paving the way for upliftment of their families and society. This practice requires setting aside a huge financial resource as good portion of the receivable income is forfeited by the institution for implementing this practice.

- e-Governance

E-governance system called as "FISAT Campus Automation System" is established with the objective of using ICT to provide institutional services to students and staff, smooth exchange of information, integration of various stand alone services. The e-governance system is FISAT is a dynamically evolving one as more and more activities of the institution are being automated. Teaching learning activities like attendance and mark entry, office related activities like fees payment, student registration, faculty leave etc are already being taken care of by this system. The e-governance system is developed inhouse with inputs taken from stake holders. Its implementation is a time taking process as more and more features are added to the existing system to enhance its utility.

File Description	Documents
Best practices in the Institutional website	<a href="https://accreditation.fisat.ac.in/criterion_7.2.1.html">https://accreditation.fisat.ac.in/criterion_7.2.1.html</a>
Any other relevant information	Nil

### 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

#### FISAT Holistic Learning Methodology:

Apart from the regular university curriculum, add on courses, value added courses and course related activities are given to students. To ensure better placements, personality development programs and placement training activities are arranged for students. Students are provided state of the art facilities like Fablab, IEDC, IIC to enhance their practical knowledge and to

engage in innovation and entrepreneurship. Students and faculty are encouraged to broaden their knowledge horizons by attending mooc courses like NPTEL and Coursera, seminars and conferences. Faculty and students are also encouraged to do quality research and publish research articles in reputed journals. Students are encouraged to participate in state level and national level competitions like Hackathons. Personality and soft skill development programs are arranged to equip the students with the necessary skill sets. Students are encouraged to organize project exhibitions and conduct technical programs under the department and institutional technical associations. Students are provided with ample physical fitness facilities and also encouraged to participate in games and other indoor and outdoor sports activities and compete in institutional and university level sports competitions. Students with inclination to arts are given opportunities to participate in institutional level and university level arts competitions.

File Description	Documents
Appropriate web in the Institutional website	No File Uploaded
Any other relevant information	No File Uploaded

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

#### Future Plan of Action for the next academic year

1. Prepare for the 2nd cycle of NAAC reaccreditation
2. Prepare for NBA accreditation for B Tech Civil Engineering, Master of Computer Applications, Master of Business Administration Programs
3. Focus on improving the course delivery and learning outcomes to improve the technical competency of the students and through this achieve better results in the university exams and placements
4. Improve collaboration with industry and academia and arrange more add-on courses and technical sessions in relevant areas
5. Encourage more faculty members to do PhD and also produce quality research publications

6. Give ample opportunities for all round development of the students by arranging arts, sports and literary activities
7. Improve the innovation and entrepreneurial output of the institution by encouraging students and faculty to make optimum use of the facilities like FABLAB.
8. Improve student involvement and awareness in addressing and finding technical solutions to the problems faced by society
9. Improve the quality of the academic output of the institution to get a good position in NIRF ranking
10. Encourage students and faculty to adopt more sustainable, green and inclusive initiatives
11. Enhance quality sustenance measures in the institution