Federal Institute of Science And Technology (FISAT)® Hormis Nagar, Mookkannoor P O, Angamaly-683577

Focus on Excellence

INFORMATION BROCHURE

M.Tech. Admissions 2024-25

1.The Institute

Federal Institute of Science And Technology (FISAT) is a private self financing Engineering College, established and run by the Federal Bank Officers` Association Educational Society (FBOAES). The FBOAES is an initiative of the Federal Bank Officers` Association (FBOA), the sole representative body of the entire officers of the Federal Bank. Federal Institute of Science And Technology (FISAT) has a unique position in the Professional Education Sector in South India. With the motto "Focus on Excellence", FISAT has been designed and developed to become a `Centre of Excellence` in professional education. Established in the year 2002, the college has carved a niche for itself in education world, eloquently demonstrated by the flying colors attained by its students in academics, placements as well as extra curricular and co curricular activities. FISAT has embarked on an ambitious plan to enhance the quality and value of education and develop high quality individuals. The institution is accredited by NAAC with 'A+' Grade. Five B.Tech branches are accredited by NBA. The institution also received the coveted ISO 9001:2015 certification.

FISAT is set up at Mookannoor, near Angamaly in Ernakulam District, Kerala, the birth place of the founder of The Federal Bank Ltd, Late K P Hormis. To honour the revered memory of the great visionary, the campus of FISAT is christened `Hormis Nagar`.

FISAT is affiliated to Kerala Technological University (KTU), Mahatma Gandhi University, Kottayam, Kerala and approved by All India Council for Technical Education (AICTE), New Delhi.

2. About M.Tech. Programme

Post Graduate Education and Research in Engineering and Technology has gained distinct importance in context of National Education Policy(NEP) for National development. The ambitious – Make In India Mission has already started showing targeted results in terms of increased manufacturing sector. The start-ups projects have created a new generation of entrepreneurs in diverse fields of engineering by tapping vast potential of innovative minds. The skill development mission has attracted large number of youths to acquire skills of their liking and to convert skills into employment and enterprise. The knowledge, skills and competency of engineers required by industry for enhancing their competitiveness in the market need to be developed from post graduate education and research in engineering and technology.

By incorporating changes in pedagogy and delivery system in teaching and learning process, APJAKTU has revised the curriculum for M.Tech from the AY 2022-23. The inclusion of mini project, audit courses, open electives and dissertation are the special features of the curriculum. The students are asked to learn IPR/ research methodology to understand the importance and process of creation of patents through research. The introduction of an audit

course covering subjects of developing desired attitude among the learners is on the line of initiatives such as Unnat Bharat Abhiyan, Value education, Disaster management, Pedagogy, Constitution of India, Personality development through Indian culture etc. The introduction of mini projects ensures preparedness of students to undertake major projects/ dissertation. The courses included under open electives are of importance in the context of special skill development and they are on business analytics, industrial safety, operation research and cost management of engineering project. These courses shall make students capable to work in industrial environment.

3. M.Tech Programme Objectives

➤ To prepare the students for a work environment requiring continued growth and prepare students to apply technology to real world applications and problems.

➤ To prepare individuals for careers in industry, R&D organizations/academic institutions or advanced technical/managerial positions in industry and government.

➤ To prepare students for work on the cutting edge of technology and prepare them to learn the everyday technical changes as they enter into the working environment

➤ To equip students with an in-depth understanding of core and advanced topics in related programmes and teaches students how to use state-of-the-art tools to solve real world problems.

➤ To blend theory and practice into a learning experience that develops skills applicable to complex real-world problems.

4. Placement/Research/Entrepreneurship Facilities:

Placement & Training Cell:

FISAT probably has one of the best trained students in the state and this is clearly indicated by the high acceptability of its graduates in the industry. A consistent focus on quality has enabled the placement and training cell to make commendable achievements over the years in campus recruitment processes. The fact that all eligible, interested students are able to find a job from campus in spite of the ups and downs in the market has been the highlight of the achievements.

FISAT ensures that the students are groomed according to the requirements of industry. In addition to the persistent academic rigour with focus on quality projects, internships and acquiring updated knowledge, every student is made to go through a series of soft skill enhancement training programs during their course for nearly 100 hours. This holistic approach moulds an industry ready professional who can take up the challenges of the modern world.

The fact that our students are placed in MNCs like IBM, TCS, Infosys, Accenture, SAP, Wipro, CTS, IBS, UST Global, Government and Public Sector companies like BARC, ONGC, Powergrid,
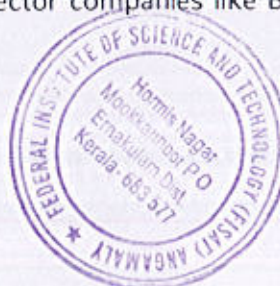
Delhi Metro and commercial banks like Federal Bank, South Indian Bank, Core Engineering companies like MRF, Apollo Tyres, Sobha, Procsys, Kalkitech etc speaks volumes about the professional excellence of students.

5. Research:

FISAT College Research Cell was initially established as Interdisciplinary Research Cell in the year 2018 and renamed as College Research Cell in 2021. CRC is committed to promote quality research among faculty members and research scholars. The Cell envisions to provide adequate infrastructure facilities and other support for collaborative research and product development.

Institute had 42 Ph.D research scholars and 18 research supervisors. 45 faculty members have obtained Ph.D and around 80 faculty members are doing Ph.D. FISAT has received various grants from different industries and government for executing research projects, workshops and training programmes.

Different Research Centres are Centre for High Performance Computing (CHPC), Centre for Research and Innovations in Signal Processing (CRISP), Instrumentation Research And Consultancy Centre" (IRACC), Centre for Advanced Research in Power Converters (CARPC), Centre for Earthquake Studies (CEES),Centre for Automotive and Allied Research (CAAR), Centre for Continuing Education(CCE), Centre for Entrepreneurial Development and Small Enterprises Management (CEDEM), Centre for Local Government and Resources Management (CLGRM), Project, Research & Consultancy House (PREACH) and Community Research Centre.

6.Entrepreneurship:

Federal Institute of Science and Technology (FISAT) has started a mini fabrication laboratory with the support of A P J Abdul Kalam Technological University and Kerala start up mission (KSUM) in the college campus. A Fabrication Laboratory (FabLab) is a technical prototyping platform for innovation and invention which aims at providing stimulus for students and serves as a platform for learning and innovation. It is a small scale workshop offering digital fabrication which empowers the students and other users to create smart devices for themselves which can be tailored to local or personal needs. The FabLab also becomes a medium for connecting to a global community of learners, educators, technologists, researchers and innovators – essentially becoming a self-sustaining global knowledge sharing network.

FISAT has setup a fully fledged facility called federal labz for incubating start-ups inside the campus. It is a fully air-conditioned space with all modern amenities required for the functioning of a start-up company. The centre plays a catalytic role in promoting indigenous technology development and carrying out research activities at low cost. The potential technology aspirers and entrepreneurs with innovative ideas are nurtured through different phases of growth until their research takes off to a maturity level where it becomes a viable

venture. The cutting edge facilities provided in the Institute, and the expertise offered by faculty who are experienced in their specialised areas, help the aspirants to implement their idea.

7. Strengths of M.Tech Programme

-Well Placed, Strongly Supporting Global Alumni

-Add-on and Value added Courses

-Active Chapters of professional bodies like IEEE, ACM, CSI, FFSC, ASME, ASCE, SAE, ISA

- Fully automated well stocked Library with 90,000+ books and Remotely accessible Digital Resources.

- Outcome Based Education with Highly Experienced Faculty

- Hostel and Conveyance Facility

- Modern Gym and Play grounds and courts

Details of M.Tech. Programmes

Sl. No.	Specialization(Discipline)	Intake Seats	Eligible Discipline for the Admission: (B Tech / BE / BSc (Engineering) / Masters degree in the following disciplines or related disciplines recognised as eligible by the University
1	M.Tech-Artificial Intelligence and Data Science(CSE)	12	Computer Science and Engineering, Artificial Intelligence, Artificial Intelligence and Data Science, Artificial Intelligence and Machine Learning, Computer Science and Business Systems, Computer Science and Design, Computer Science and Engineering (Cyber Security), Computer Science and Engineering (Artificial Intelligence and Machine Learning), Computer Science and Engineering (Artificial Intelligence), Computer Science and Engineering (Data Science), Computer Science and Engineering (Digital Forensics and Cyber Security), Information Technology, Electrical and Computer Engineering, Electronics and Computer Engineering, Electronics and Communication Engineering, MCA, MSc Computer Science, M Sc in Mathematics / Statistics without Valid Gate Score

2	M.Tech-Power Electronics and Power Systems(EEE)	12	Electrical and Electronics Engineering, Electrical and Computer Engineering
3	M.Tech Renewable Energy(ME)	12	Any UG Programme of Engineering / Technology
4	M.Tech-VLSI & Embedded Systems(ECE)	12	Electronics and Communication Engineering, Applied Electronics and Instrumentation Engineering, Electronics & Biomedical Engineering, Biomedical Engineering, Instrumentation and Control Engineering, Electronics and Computer Engineering, Electrical and Electronics Engineering, Electrical and Computer Engineering, MSc Electronics/Physics without valid GATE Score
5	M.Tech-Structural Engg. & Construction Management(CE)	24	Civil Engineering, Civil and Environmental Engineering, Naval Architecture & Ship Building Engg

Eligibility for Admission

Govt. Quota

50% of the total seats in each of the courses are set apart as Govt. quota seats. Candidates interested in Govt. quota seats have to register their names online in the website of Director of Technical Education (DTE) www.dtekerala.gov.in. as per their notification expected shortly. DTE will prepare a rank list by considering the candidate's Gate score/aggregate marks obtained up to 6th semester in qualifying degree examination. Based on the ranking by DTE, the seats can be filled by FISAT Admission office, if the candidate has separately given the application in FISAT for the admission as per G.O (P)208/66/Edn. dated 02-05-1966. G O (MS) 95/08/SCSTDD dated 06-10-2008 and as modified from time to time by the Govt.

Management Quota

50% seats are under Management Quota. Admission to Management seats is conducted by the Management. Admission is on the basis of merit. **Applications are available online. Candidates need to submit only one online application for Govt./Management Quota.**

1. Eligibility for Admission

1.1 The candidate should have a minimum CGPA of 6.0 in a 10 point scale in the Engineering Degree Examination. For SEBC (OBC) students, the minimum CGPA requirement is 5.5 in a 10 point scale. Wherever the credit system is/was followed, only CGPA will be considered for selection. If the candidate has obtained the bachelor's degree in Engineering from a University where credit system is/was not followed, he/she should have a minimum of 60% aggregate marks (For SEBC /OBC students, a minimum

of 55% aggregate marks in the Engineering Degree examination is mandatory). For SC/ST candidates a pass in the Engineering Degree Programme is sufficient.

1.2 The candidates shall be an Indian National.

1.3 Candidates, who have passed AMIE / AMIETE Examinations and satisfying the following conditions, are also eligible for admission. i) They must have valid GATE score. ii) A minimum of 55% marks for section B in AMIE/AMIETE examination.

1.4 Candidates who have degrees awarded from other Universities shall submit Eligibility Certificate as well as Migration Certificate at the time of admission.

1.5 Sponsored candidates from Industries, R&D organizations, National Laboratories as well as Educational Institutions, with a bachelor's degree in Engineering are eligible for admission to the M.Tech Programme.

1.6 Admission shall normally be restricted to those with valid GATE score. However, this stipulation is relaxed in the case of sponsored candidates and In case seats remain vacant due to lack of candidates with valid GATE score, candidates without valid GATE score shall be considered. Admission to such seats will be made on the basis of their CGPA or percentage of marks scored in their Degree.

1.7 The reservation policy of the Government of Kerala shall be followed in admission to the M.Tech. programme.

1.8 Candidates who have appeared for the final examination can also apply provided he/ she has passed all the subjects up to and including the 6th semester exam. Such candidate shall submit self attested copies of all mark lists up to 6th semester along with the application. Selection of such candidates shall be subject to the production of qualifying degree satisfying clauses (1.1 to 1.6)

1.9 Admission procedure is subject to modification as may be deemed necessary subject to further orders, if any, passed by appropriate authorities.

FEE STRUCTURE

	M.Tech Admission 2024 – Fee Structure		
	Ist Semester		
Sl.No.	Fee Details	Management Quota (Amount INR)	Govt. Quota (Amount INR)
1	Admission Fee (One time)	100	100
2	Tuition Fee (per semester)	35000	35000
3	Caution Deposit (Refundable)	5000	5000
4	PTA (Annual)	1500	1500
5	University Registration & Exam Fee	3195	3195
6	Sports / Cultural Activities	530	530
7	Alumini Membership fee(One time)	500	500
8	Students Insurance Scheme	75	75
9	Students affiliation Fee to University	1000	1000
	Total	46900	46900

M.Tech Admission 2024 – Fee Structure
IInd Semester

Sl.No.	Fee Details	Management Quota (Amount INR)	Govt. Quota (Amount INR)
1	Tuition Fee (per semester)	35000	35000
	University Exam Fee	2145	2145
	Total	37145	37145

M.Tech Admission 2024 – Fee Structure
3rd Semester

Sl.No.	Fee Details	Management Quota (Amount INR)	Govt. Quota (Amount INR)
1	Tuition Fee (per semester)	35000	35000
2	PTA (Annual)	1000	1000
3	University Exam Fee	1035	1035
4	Sports / Cultural Activities	530	530
5	Students Insurance Scheme	75	75
	Total	37640	37640

M.Tech Admission 2024 – Fee Structure
4th Semester

Sl.No.	Fee Details	Management Quota (Amount INR)	Govt. Quota (Amount INR)
1	Tuition Fee (per semester)	35000	35000
2	University Exam Fee	1500	1500
	Total	36500	36500

Scholarships:

Based on merit and means, an amount upto 15000 per semester will be offered as scholarship in all branches. Scholarship shall be recommended for 50% of the approved intake for all the specializations. Candidates with valid GATE score need to pay the fee applicable to Govt engineering colleges in FISAT.

Online Application Form & Information Brochure available on the webpage :

https://fisat.ac.in/admission/

Candidates need to apply ONLINE only. https://mtech.fisat.ac.in/

Important Dates

Last date of Receiving Online Applications: 05 September 2024

Last date of Admission: 15 September 2024

Commencement of classes : As per KTU notification

Contact Details for M.Tech Admission:

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