



FISAT[®]

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

Hormis Nagar, Mookkannoor, Angamaly, Kerala 683577



ANNUAL REPORT 22-23

Federal Institute of Science And Technology (FISAT)

Annual Report 22-23

1. Introduction

Federal Institute of Science And Technology (FISAT) is a private self-financing professional college established in 2002 under the aegis of the Federal Bank Officers' Association Educational Society, an initiative of the Federal Bank Officers' Association. The College is approved by All India Council for Technical Education (AICTE) and affiliated to APJ Abdul Kalam Technological University.

The College is accredited by the National Assessment And Accreditation Council (NAAC) with 'A+' Grade in the second cycle in the year 2023. Five B.Tech. programmes which received NBA accreditation in 2020 were further re accredited for three years in 2023 after the compliance visit. FISAT is also an ISO 9001: 2015 Certified Institution. FISAT is one among the first 50 private self-financing engineering colleges in the country with ATAL Ranking of Institutions of Innovations Achievements (ARIIA).

The campus is located in Hormis Nagar at Mookkannoor, the birth place of Late Sri. K.P. Hormis, the founder of the Federal Bank, ten kilometres from Angamaly town in Ernakulam District and fifteen kilometres from the Cochin International Airport. The idyllic location privileges the campus with a refreshing rural ambience.

True to its founding objectives, the college has built up a distinct reputation in terms of academic and extra-curricular output, as evidenced by the number of university ranks, excellent results and number of campus placements. The College takes pride in its achievements and looks forward to realising its aspirations for the future, and is steadfast in its commitment to shape and transform young men and women into disciplined, enthusiastic and hardworking citizens of India. The College is resolved to develop into a centre of quality and excellence, imparting relevant and value-based education in Science, Technology and Management Studies.

The college possesses state-of-the-art infrastructure and has the ambience that kindles creativity and innovation. It spreads over an area of 35 acres of land with nearly 7,00,000 sq.ft of constructed buildings having the academic and administrative blocks, hostels and other facilities. Nearly 3000 students are studying in various programs. Around 1000 students are residing in four College hostels. 170+ faculty members and 100+ non-teaching staff members are working in the institution. FabLab, Incubation Centre, spacious class rooms, modern language lab, computerised library, bank branch with ATM, medical care centre, ambulance, conveyance, store, canteen, indoor and outdoor sports facilities, fitness centre, backup power supply etc., are some of the facilities available on the campus.

To nurture research and development, the college has established research centres like Centre for High Performance Computing, (CHPC), Instrumentation Research and Consultancy Centre (IRACC), Centre for Applied Research and Development in Civil Engineering (CARD), Centre for Research and Innovations in Signal Processing (CRISP), Centre for Advanced Research in Power Converters (CARPC) and Centre For Applied Research And Development In Civil Engineering (CARD). Under the Research Promotion Scheme, AICTE has sanctioned funds for research centres in the Departments of Electronics and Communication Engineering, Electrical and Electronics Engineering and Computer Science Engineering. IIT Bombay and IIT Kharagpur have approved FISAT as their remote centres for implementing the project 'Ekalavya'. FISAT is also approved as a Resource Centre of IIT Bombay for 'Spoken Tutorial Project'. The campus is also a remote centre for conducting courses offered by IIRS & ISRO.

The students of FISAT pass out with flying colours and bag a good number of ranks in the University examinations right from the very first batch. A vibrant Placement and Training Cell functions in the College and plays a key role in grooming the students according to the requirements of the Industry. The Cell has been successful in placing almost all the eligible students in MNC s like Accenture, TCS, Infosys, CTS, IBM, Wipro, UST Global, IBS, Govt. and Public sector companies like BARC, ONGC, Power Grid, Delhi Metro and commercial banks like Federal Bank and South Indian Bank, to name a few.

The College is accredited by the Tata Consultancy Service for placement activities. Professional bodies like IEEE, ISTE, CSI, ASME, ISA, ASCE and ACM are actively functioning in the College. Technical forums like Thyra, Echo, Electra, Idea, SAME, Forum, FIESTA, ACE and FFSC are also very active in the College.

The College offers the following programmes.

Programmes offered	Intake
B. Tech.	
1. Computer Science and Engineering	180
2. Computer Science and Design	60
3. Electronics and Communication Engineering	120
4. Electrical and Electronics Engineering	60
5. Electronics and Instrumentation Engineering	60
6. Mechanical Engineering	120
7. Civil Engineering	120
M. Tech.	
1. Power Electronics and Power Systems	12
2. Structural Engineering and Construction Management	24
3. VLSI and Embedded System	12
4. Artificial Intelligence and Data Science	12
5. Renewable Energy	12
MBA (Master of Business Administration)	120
MCA (Master of Computer Applications)	120
Ph.D.	
• Computer Science and Engineering	
• Electronics and Communication Engineering	
• Mechanical Engineering	
• Civil Engineering	
• Electrical and Electronics Engineering	
• Electronics Instrumentation Engineering	
• Computer Applications	
• Business Administration	
• Science and Humanities	

FISAT has upholds its Vision and Mission and propels ahead with its motto **“Focus on Excellence”**

Vision

To become a world class professional institute with focus on excellence, moulding committed global professionals and technocrats, who can meet the demands of business, industry and research.

Mission

- *To transform into an advanced centre of Technical Education, which will, in turn bring out professionals with superior skills and social commitment.*
- *To provide state-of-the art facilities to mould brilliant young talents, enabling them to take up challenging assignments in the highly competitive global scenario.*

Quality Policy

FISAT shall strive continually for evolving into an advanced centre of learning and research in the technical and management domains through focus on excellence in all its endeavours, adhering to applicable requirements, embedded in its quality assurance system. The institute is committed to transforming its students into globally competent, socially committed and ethically driven professionals capable of excelling in industry, entrepreneurship and society.

MANAGING COMMITTEE FOR 2021-2023

Managing committee members for 2021-2023	
Sri. Sachin Jacob Paul	President
Sri. Paul Mundadan	Vice President
Sri. Shimith P R	Secretary
Sri. Abdul Nazar M P	Associate Secretary
Sri. Jenib J Kachapilly	Treasurer
Sri. Rajanarayanan V M	Associate Treasurer
Sri. Tom Thomas	Member
Sri. Mohammed Ansari P K	Member
Sri. Rajavarma E K	Member
Sri. George C Chacko	Member
Sri. Ajithkumar K K	Member
Smt. Jayasree K	Member

As per the guidelines of the AICTE and APJAKTU, the Governing Body was constituted with the following members: The Secretary of FBOAES is nominated as the Chairman of the Governing Body and the President of FBOAES as the Vice Chairman of the Governing Body.

Governing body 2021-2023	
Sri. Shimith P R	Chairman and Secretary, FBOAES
Sri. Sachin Jacob Paul	Vice Chairman and President, FBOAES
Sri. Jenib J Kachapilly	Treasurer, FBOAES

Sri. Paul Mundadan	Vice President, FBOAES
Sri. Abdul Nazar M P	Associate Secretary, FBOAES
Sri. Rajanarayanan V M	Associate Treasurer, FBOAES
Sri. Tom Thomas	Member, FBOAES
Dr. Manoj George	Principal
Dr. C Sheela	Vice Principal
Dr. Mini P R	Dean, Academics
Dr. Santhosh Kottam	Assistant Professor
Dr. K Vijayakumar	Former Director of Technical Education
Nominee of University	
Nominee of AICTE	
Nominee of State Government	

FISAT has set major milestones during the year 2022-2023. The major achievements and activities during the period are:

- NAAC A+ accreditation with a grade of 3.45, highest grade among all engineering colleges in the state.
- Successfully completed NBA Compliance visit and the accreditation of five B.Tech programs extended for another 3 years.
- 736 seats filled against an approved intake of 720 in B.Tech. 100% admission in MBA and MCA
- NBA Accreditation visit of B.Tech successfully completed
- 737 offers for the 2023 graduating batch with an average package of 5.4 LPA. A total of 473 students are placed.
- Scholarships worth Rupees 2.74 Crores provided to students.
- ASME students bagged scholarships worth
- Four faculty members completed PhD taking the total number of faculty with Phd to 42. 78 faculty members are pursuing Phd and the total number of approved guides is 21.
- 4 patents filed/published, 1 registered design and 1 copyright
- Two new MoUs signed with Nest and Universiti Teknologi MARA, Malaysia
- NSS FISAT received special appreciation award (2021-22) as a recognition for its activities
- IEEE Regional Exemplary Student Branch Award, IEEE India Council Outstanding Student Branch Award & Darrel Chong Award 2022 in the Bronze Category.
- FISAT Men's basketball team won 6 titles including KTU interzone and D zone tournaments. Women's volleyball team won the D zone title. The men's Cricket team was the runner up in D-Zone.
- Established the UAE chapter of FISAT Alumni
- Add on courses for every students
- 2019-2023 Batch Aaron Sabu, Akash Shaji, Allen Simon Antony, Clinto Jose & Amala Joy & Ms Lakshmi Nandakumar (Mentor) & Dr. Abi P Mathew (Mentor) selected Finalist 1 among 25 final teams from all over world) - Xplore -International project competition organised by Pheonix contacts, Bloomberg, Germany September 2023

Annual Report - FISAT

FISAT has embarked on a journey of achieving excellence in the professional educational sector of the state. The growth has been very consistent and the institution has been able to maintain the quality of education it provides. Every department in the institute strives to achieve excellence, true to its motto, vision and mission of the Institute.

As we complete one year since the last annual general body meeting of the society, FISAT is celebrating a year of remarkable achievements and advancements, a year marked by excellence and unwavering commitment to shaping the future of engineering and management education. The institution has scaled new heights and set new benchmarks in its journey towards excellence. This report captures the highlights of the year, the major achievements, activities of the Institution and its primary stakeholders.

The Institution Day and Founders Day celebrations of this year were held on September 26, 2023, marking an occasion that allowed us to reflect on the beginnings of FISAT and honour the indomitable spirit of our visionary founder, Adv. P V Mathew. It was a day of deep significance, as it reminded us of the humble origins of our institution and the relentless dedication of Adv. P V Mathew, who devoted his life to its growth and development. We were honoured to have Dr. Jacob Thomas IPS as our esteemed guest on this auspicious day. Dr. Jacob Thomas IPS shared valuable insights and experiences, inspiring us to continue the pursuit of excellence and service to society that has been the hallmark of our institution. The Institution Day and Founders Day celebrations served as a poignant reminder of our roots and a source of renewed inspiration to carry forward the vision and values that have guided us on this remarkable journey of education and growth.

2. Admissions

During this year, the institution was successful in increasing the intake of Electronics and Instrumentation from 30 to 60. With this addition, the total number of seats in engineering has touched 720. As we know, the engineering education sector in the state as well as the country has been going through a tough phase with demands for non computer science engineering hitting an all time low. In spite of the formidable challenges, FISAT has been able to secure an all time highest number of admission in engineering. The total number of seats filled stands at 736 on the closing date of admission. This number is more than the approved intake of 720. The detailed branch wise split of the approved intake and the number of seats filled is given in the table below. The number of seats filled includes the supernumerary seats allowed through EWS and AICTE Tuition fee waiver schemes.

Branch	Approved intake	Number of seats filled
Civil Engineering	120	100
Computer Science and Engineering	180	198
Computer Science and Design	60	64
Electronics and Communication Engineering	120	131
Electrical and Electronics Engineering	60	62
Electronics and instrumentation Engineering	60	60
Mechanical Engineering	120	121

Total	720	736
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All seats in the PG programs, MBA and MCA, are also filled this year. The intake in both programs are 120 each. In five M.Tech programs, the total admission is 23 out of the 75 seats available.

3. Accreditation

On the NAAC accreditation front, FISAT came out with a unique achievement, a score of 3.45 out of 4, securing A+ grade, the highest score secured by an engineering college in the state - an accomplishment that not only distinguishes us as the leading engineering college in the state but also reflects our unrelenting dedication to academic excellence and quality in education. This outstanding achievement is a testament to our relentless pursuit of excellence in all aspects of our institution. The NAAC visit on campus was held during 9 & 10 March 2023.

Following the compliance visit by NBA, five existing B.Tech programs (CSE, ECE, EEE, EIE and ME) had their accreditations renewed for an additional three-year period. The NBA compliance visit was conducted on 1 April 2023. The NBA accreditation visit of the Department of Civil Engineering was completed during 22, 23 and 24th September 2023.

4. Placement and Training

Placement and Training is another major area the institution focuses on. During the past one year, the cell has been able to provide more training programs for students which prepares them for campus recruitments. The total number of offers for the batch graduating in 2023 stands at 737 from 64 companies with an average package of 5.4 Lakhs per annum. The major companies that visited the campus are TCS, Nissan Digital, Sobha Ltd, TATA Elxsi, SAP, UST Global, Cognizant, Infosys, IBS, Wipro, Ruby Seven, Qburst, IBM, Digital Core Technologies, Experion, MIL Control, Pidilite, Saint Gobain, Poornam Infovision, Walkaroo, Federal Bank, ESAF, Yokogawa, Astral, ICICI, People 10, Reliance Retain, Kalki tech, Aditya Birla, HDFC, RDC Concrete, Schneider electric, Envestnet & Procsys. The recruitment of the 2024 batch has just started and as on date, 7 recruitments are completed and there are 54 offers.

Year of Passing - 2023							
Sl No	Branch	No. of Offers	No. of Students Placed	Highest Package	Average Package	Male	Female
1	CE	83	54	8	3.66	25	29
2	CS	229	113	17.04	4.68	66	47
3	EC	114	81	8	4.11	39	42
4	EE	33	23	7.5	3.72	13	10
5	EI	22	15	6	3.82	11	4
6	ME	39	31	5.76	3.49	28	3
7	MBA	114	78	13.58	5.58	36	42
8	MCA	102	77	13.58	4.31	27	50
9	SECM	1	1	13.58	13.58	0	1
	Total	737	473			245	228

Year of Passing - 2024							
SI No	Branch	No. of Offers	No. of Students Placed	Highest Package	Average Package	Male	Female
1	CS	41	39	7.5	6.29	12	27
2	EC	7	7	6.2	4.83	6	1
3	EE	2	2	4.6	4.6	2	0
4	EI	1	1	5.6	5.6	0	1
5	MCA	3	3	6.2	5.13	3	0
	Total	54	52			23	29

A comprehensive training program was conducted for a total of 10 days for all final year students, with an additional 6 days dedicated to company-specific training. The training included four online practice tests. Additionally, a three-day soft skills workshop was organised for third-year students. For the pre-final year students, training programs spanning 12 days were conducted along with online practice tests and a three-day soft skills workshop. An eight-day technical workshop was also provided to supplement the programming skills of the students.

5. Academic Results

The academic results during the period has been very encouraging, The program pass in B.Tech is 69.8%, MBA, 74.1%, MCA, 88.23% and M.Tech 92.3%. The functioning of the Academic Performance Monitoring Committee (APMC) has been strengthened to improve the academic performance of the students.

Efforts have been initiated through the Internal Quality Assurance Cell (IQAC) to streamline the planning and execution of academic and other activities in the campus. The major activities undertaken by IQAC are coordination of all accreditations, Internal and external audits of the university, Approval process of AICTE, Affiliation process of University and ISO.

6. Mentoring and Student Support

The student mentoring and support system in the campus has been strengthened with more focus and attention on slow learners and providing emotional and mental support. Meetings of the Academic Performance Monitoring committee are conducted regularly to help the students with their academics. Students who need professional counselling are facilitated through the on campus counselling cell headed by a full time qualified clinical psychologist. This support is provided on a one-to-one basis in order to address their challenges in academic, behavioural, affective, emotional developmental aspects. Students referred by staff members were individually counselled with adequate follow up sessions depending upon the nature of the problem. Parental counselling and family therapy have been done in cases where it was found to be necessary. This support is helpful in boosting positive mental health of the students which reflects in terms of higher self-esteem, self-efficacy and realistic expectation, counselling also provides a stress-free learning environment where the students excel in holistic development. In addition to this Mental Health Awareness Classes And Induction Programmes were conducted for students across all departments.

7. Infrastructure & Amenities

FISAT offers the best infrastructure to cater to both students and faculty members. Our commitment to excellence is reflected in our annual infrastructure upgrades and maintenance.

One of the major tasks undertaken by the IT department was the upgradation of the institution website. This was in view of the requirements of the NAAC. A lot of information was added and the site has a completely new look and feel now. The new platform offers easy updations and better user experience. On the hardware front an additional 41 wifi routers including outdoor units were installed in the campus to improve the internet connectivity. Students can access the internet through the campus network 24 hours both from campus as well as hostels. The utility of the 1GBPS connectivity the campus subscribes has improved with this. The campus automation software is constantly upgraded by the in-house team. New modules were added to streamline the admission process and academic activities.

On the amenities side, a major upgrade was taken up in the Canteen infrastructure. The canteen space was reconfigured and 100 seats were added in the student section and new dining space was furnished for the staff. The kitchens in the canteen, ladies hostel and gents hostels were upgraded and the washing area relayed for improved convenience and hygiene.

A new dining room 'Aditi' hall was set up exclusively for special guests and placement teams. The interiors of the room were modernised and furnished with wooden dining table sets to provide a warm and welcoming dining experience. A new lounge has been established near the reception area for guests. Additionally, new sofas have been added to the reception area and waiting areas of the Principal's and Chairman's offices. In view of the NAAC and NBA visits, painting was undertaken in all the buildings including hostels. New display boards were also installed in various locations, these include information boards as well as boards that enhance the look and feel of the campus. New water coolers were added in keeping with the requirements of the students. The clock tower, which had malfunctioned on several occasions was completely replaced with a new elegant face and new tone.

The campus roads in the entrance and front side of the main building were relayed. In addition to regular hostel maintenance, we upgraded a few Indian-style toilets to European-style in response to student requests. We also installed insect nets in both the gents' and ladies' hostels. In addition to this, heavy-duty washing machines were introduced in the ladies' hostels, and eight new incinerators were installed to better serve the needs of the women.

Nature has blessed our campus with clean water and greenery. The lawn in green fields, which is a venue for the major activities, was maintained meticulously throughout the year. New stone benches were introduced so that students can spend some casual time after class. The passion hut was also re-installed, adding to the beauty of the lawn near the canteen.

A new football ground was developed towards the northern side of the cricket ground to accommodate the growing needs of the students. The drainage between these grounds were realigned for this.

The other major additions to the infrastructure are furnishing 4 additional guest rooms, new UPS batteries, New ACs in CAD lab and Central Computing Facility, New audio systems in seminar hall and auditorium, 450+ new chairs in auditorium, additional surveillance cameras, new projectors in classrooms, biometric entry exit for fitness centre, accommodation for canteen workers and additional

book racks for the library Three new bus routes were also added this year as per the requests from students.

All four hostels are fully occupied this year and periodical maintenance is conducted to ensure the safety and convenience of the inmates. The food provided in the canteen and hostels are periodically inspected to maintain quality. The total capacity of the hostels is 1251 out of which 666 is in gents hostels and 585 in ladies hostels.

Water testing is periodically conducted to ensure the safety of drinking water in the campus. The functioning of the sewage treatment plant is periodically reviewed. The cleaning and security of the campus is entrusted with third-party vendors, ensuring efficient and professional management of these essential services. "Very clean and best maintained campus, well equipped labs and amenities" - the remark by the NBA accreditation team is recognition of FISAT's commitment to providing a conducive learning environment and support system for our students.

8. Laboratory Infrastructure

A new Virtual Reality(VR) lab was added this year as per the requirement of the course Computer Science and Design. This new lab features most modern VR equipment and 35 most modern desktop computers with Intel Core i5 processors and graphics cards. In addition to this, nearly 200 computers in the central computing facility and other labs were upgraded with SSDs and 60 new monitors to improve the performance. 50 new computers were also purchased to meet the lab requirements in the campus.

In the department of EIE, a new lab for Automation has been set up with the assistance of Johnson Controls. Both software and hardware were upgraded. Two new labs were added in the department of Civil Engineering - Geotechnical Engineering lab and Project Lab. This was to meet the requirements of the department for NBA. Digital IC Trainer kits for Integrated Circuits Lab (IC Lab) and Cadence Software for PG Lab were added in the ECE department. The fitness certificate of Mobile FAB lab was renewed so that the services can be continued for the next year.

9. Human resources & Administration

The management has made significant efforts to improve the benefits of employees. It is ensured that all the benefits are extended to the employees including, Pension, Staff MediClaim, Parents MediClaim, ESI & EPF. Focus was given this year on the HR function to bring in equity and transparency in its operations. Promotion interviews were conducted for eligible faculty members and were approved. A 3% hike in DA for teaching and non teaching staff and 3% annual increment for all staff was implemented this year.

This year, the attendance marking of the employees was automated with Face id. There were 11 new appointments in teaching 11 new appointments in non teaching departments. The staff retention is 93%. Four employees retired during the period completing their service in FISAT. This include Dr. C Sheela, Vice Principal, Dr. Binimol Punnose, HoD, S&H, Mr. Antu P J, Assistant Professor, S&H and Mr. Bino M George, Senior Office Assistant, Accounts.

There has been changes in the leadership, including Dr. C Sheela taking charge as the Director of the R&D cell, Dr. Mini P R being promoted as the Vice-Principal and Dr. Unni Kartha G being appointed as the Dean Academics with an additional charge of IQAC. The senior most faculty member in S&H,

Ms. Honemol P Chacko is given the charge of the head of the department of S&H. The charge of the Placement Cell has been given to Dr. Bejoy Varghse, Assistant Professor, ECE.

Dr. Manoj Geroge, Principal, resigned, and Dr. Mini P R Vice Principal is given the charge of Principal from 31 July 2023.

Staff Position - Teaching						
Department	Asst Prof	Asst Prof (Spl Grade)	Asst Prof (Sr Gr)	Associate Prof	Professor	Total
CE	14	6	1	2	2	25
ME	10	5	5	1	2	23
CSE	7	14	7	1	3	32
ECE	8	11	4	0	3	26
EEE	2	6	4	0	2	14
EIE	2	7	2	1	0	12
MCA	4	5	4	0	0	13
MBA	3	1	3	2	1	10
S&H	12	3	5	0	1	21
					Total	176

Staff Position - Non Teaching					
Department	Regular (Male)	Regular (Female)	Contract (Male)	Contract (Female)	Total
CE	2	3	0	0	5
CSE	7	10	2	0	19
ECE	2	4	0	0	6
EEE & Maintenance	11	0	2	0	13
EIE	2	0	0	0	2
Hostel	2	2	2	4	10
Library	3	4	0	0	7
MECH	8	0	0	0	8
Administration	21	8	3	4	36
S&H	0	3	0	0	3
STP	4	0	0	0	4
Total	62	34	9	8	113

FISAT Staff Welfare and Recreation Forum has been very active and coordinated many activities for the welfare of the staff members during the year. The major activities conducted are Medical Check

up, Family meet, Awards for academic excellence of children of staff, financial aid and loan to staff, annual gifts, Onam and Christmas celebrations.

10. Scholarships

The institution was able to facilitate the following scholarships to the students during the year.

Scholarships		No. of Beneficiaries	Amount in Lakhs
AICTE			
1	Tuition Fee Waiver Scheme	111	55.50
2	Pragati Scholarship (Girls)	15	7.50
Government of India Scholarships			
3	Merit Cum Means Scholarships	313	78.25
4	Central Sector Scholarship for OBC Students	21	2.10
5	Prime Minister's Scholarship for Central Armed Police Forces	6	1.80
6	PG scholarship for single girl child	6	1.98
7	AICTE Swannath Scholarship Scheme	1	0.50
Government of Kerala			
8	Lower Income Group Fee Concession	270	67.50
FBOAES Scholarships			
9	Scholarship for children of FBOAES Members		
10	Fee Concessions	463	271.44

List of Beneficiaries of Children of FBOAES Members

2019 Admission			
SI No	Branch	Name of student	Amount
1	CE	SINCHAN DUTTA	20000
2	CS	SONA CELIN	20000
3	EC	AAHNA MARIA ISSAC	20000
4	ME	SOURAV NANDAKUMAR N K	20000
5	EC	PRATYUSH P T	10000
2020 Admission			
1	CSE	ANJANA S KAMATH	10000

2	CSE	JOAN DAVID	10000
3	CSE	MALAVIKA K	10000
4	CSE	SNEHA JOSEPH	10000
2021 Admission			
1	CSE	HARIPRASAD R	10000
2	CSE	SHRAVAN SAJITH PODUVAL	10000

11. Endowments

SI No	Name of Endowment	Department	Awarded to	Award Amount	Sponsored by
1	Vishnu Memorial endowment award	Computer Applications	Best outgoing MCA student	Rs. 3000/-	
2	Dr. K U Joseph Memorial Award	Science & Humanities	Student with outstanding performance in first year B.Tech University Examination	Rs. 750/- Memento	Family of Dr. K U Joseph
3	Shinoy George Memorial Award	Science & Humanities	Top Scorer in Mathematics	Rs. 1000/- Memento	Staff members of Science and Humanities Department
4	Hima Memorial Award	Electronics and Communication Engineering	Top Scorer in second and third year	Rs. 1500 each	Batchmates of Ms. Hima
5	Shaheej Memorial Award	Computer Science and Engineering	The winner of the coding competition conducted during CSE day every year	Rs. 4000/-	Batchmates of Mr. Shaheej
6	Ambu Sivadas Memorial Award	Mechanical Engineering	Top Scorer in 3rd Semester ME	Rs. 5000/-	Family of ambu Sviadas

Recipients of PV Mathew Memorial Scholarships (Rs. 5000/- each)

SI No	Name of Student	Branch
1	Gokul K P	ME
2	Akshay J P	EE
3	Ajannya S	EI
4	Sreekanth K	EE
5	Dasaradh M	EC
6	Joyal Devassy	CS
7	Sredha Babu	MBA
8	Leya Joseph	MCA

12. Grants Received

Grants offered from Government and Non-Government agencies for research projects, sponsored events during Academic Year 2022-23. A total of Rs. 12,21,149/- has been received/sanctioned for the Academic Year 2022-2023.

Item	Amount
Research Seed Money	2,25,000/-
KTU Student Project	32,000/-
Other Student Projects	3,50,000/-
KTU Funded FDP	5,04,149/-
DST- SERB Grant for Organizing Conference	1,10,000/-
Total	12,21,149/-

13. Library and Learning Resources

The library offers the students access to an invaluable collection of books, journals, videos, and CD/DVD's and is continuously furnished with new and relevant reference materials. The library is fully computerised. It functions throughout the year from 8 am to 7 pm on all days except Sundays and other holidays. It has access to online databases such as DELNET, EBSCO-Business Source Elite, IEEE, Elsevier Science Direct, EBSCO E books etc. The institution library is fully automated with modern software KOHA and an OPAC system. An e - Library platform Knimbus is provided to the users to access digital library facilities (E Journals and E books) by sitting anywhere in the world.

The 'mLibrarymobile' app brings eLearning and multimedia at the fingertips of the users. The mobile App 'mLibrary' offers a multi-format, content delivery App for users to consume eBook collections, e-Course materials, latest journal issues and multimedia learning content. Patrons can access the entire library on their smart phone from anywhere, at any time.

FISAT Library has improved its collection of books to 82,635 this year. A total of 5000 e-journals are subscribed in addition to 224 periodicals and print journals and 10 news papers. An average 250 users utilise the library resources per day. The library has also organised user orientation programs for all first year students. Book exhibition and reading week celebrations were also organised. FISAT Library has also organised Eight programs in association with National Digital Library Club of India.

14. Research & Development

One of the areas of improvement identified during the NAAC and NBA visits was in Research and Consultancy. To coordinate such activities, the Institution has reconstituted the Central Research Cell (CRC) as the Research and Development Cell with members from all departments. A few initiatives have been taken under its ambit, including the publication of an online Journal, JSTEM.

The cell has been successful in motivating faculty members to pursue research. Four new members of the faculty have been approved as research guides by KTU. The total number of approved guides is 21. The total number of PhD holders in the institution is 42 and 78 faculty members are pursuing PhD. Four faculty members were awarded PhD during this year. A total of 31 Scopus indexed journal papers (Research Articles) have been published in the last 3 years out of which 16 are SCIE indexed with an impact Factor. In addition to this, more than 140 papers which are mostly conference papers and book chapters are also published which are scopus indexed. The R&D cell has also facilitated the signing of an MoU with Universiti Teknologi Mara (UiTM) Malaysia to promote friendship and

cooperation, mutual understanding, academic, cultural and scientific thought and personnel exchange.

The Intellectual Property Rights Cell has organised a workshop of IPR studies to familiarise the concept of intellectual property and the need for protecting it through patents and copyrights. This year (AY 2023-2024) the IPR cell has initiated a campaign to increase the total number of patents published from FISAT by providing assistance to improve the ease of filing process and conducting regular awareness programmes to the stakeholders. As a result, so far FISAT has filed/published 4 patents, one registered design and 1 copyright.

15. Innovation and Entrepreneurship Development Centre IEDC

Innovation and Entrepreneurship Development Centre (IEDC) has been recognised by MSME, Gov of India, as HI (host Institution) for implementation of the incubation component under MSME Innovative Scheme. The centre has been active and has organised 10 events during this period. The programs included workshops on entrepreneurship, internships, hackathons and orientation programs.

16. National Cadet Corps NCC

The FISAT unit of National Cadet Corps (NCC) was established in the year 2022. The unit is in its nascent stage, but has been very active in conducting a wide range of activities, with a distinct emphasis on social services, discipline and adventure training. Presently the Guard team of 22K Battalion, Eloor is led by cadets from FISAT. NCC has organised 21 events, NCC day celebration, Republic day and Independence day parades, blood donation camp, marathon and anti narcotic seminar.

17. National Service Scheme NSS

The National Service Scheme (NSS) is a youth-oriented program in India that promotes community service and social development among college and university students. NSS engages young volunteers in various activities aimed at fostering a sense of social responsibility and civic engagement. These activities include environmental conservation, health camps, literacy drives, and disaster relief efforts. NSS not only contributes to the betterment of society but also helps students develop leadership skills, teamwork, and empathy. By participating in NSS activities, students become active contributors to their communities, fostering positive change and reinforcing the importance of selfless service in building a better nation. The NSS units at FISAT are a testament to the institution's commitment to nurturing responsible and compassionate citizens. Through their active involvement in NSS activities, FISAT students not only gain valuable practical experience but also build character and a deeper understanding of the societal challenges around them. The NSS units at FISAT stand as a shining example of how education institutions can instil values of service and social responsibility in the hearts of young minds, shaping a brighter future for our nation.

In October 2022, FISAT's NSS units were actively involved in a series of impactful events. They began with a Clean Tech Challenge Awareness Class, where the importance of energy conservation was highlighted through an LED screen presentation. The State-Level APJ AKTU Volunteer Secretaries Meet saw a large turnout of around 335 participants, with esteemed dignitaries gracing the event. NSS Unit 104 and 568 also conducted an Anti-Drugs Campaign quiz competition to raise awareness among the youth. Following that, they organised a Blood Donation Awareness Session in association with Rudhirasena, emphasising the significance of blood donation. The month also featured 'പാത്രം' - a food donation drive, and a successful Blood Donation Camp in collaboration with the Indian Medical Association (IMA) Blood Bank.

In November 2022, FISAT NSS units continued their dedicated efforts. They organised a Human Chain as part of the Anti-Drug Campaign, involving around 3000 volunteers. A Push-Up Competition marked National Ayurveda Day, drawing enthusiastic participants. Children's Day was celebrated with an online smiling competition, 'CHIRIKUDUKKA.' A Health Talk on the prevention of cervical cancer was conducted in collaboration with the Gender Equity Cell. The event 'A Day to Remember My Buddy' aimed to foster understanding and appreciation for differently-abled individuals.

December 2022 saw the commencement of a seven-day Special Camp named 'EKATHA 22', which focused on community service and cultural activities. In March 2023, NSS units conducted a survey as part of the NATPAC Survey, gathering data regarding employment and pay pre and post-COVID from various taxi stands. In April, FISAT hosted another successful Blood Donation Camp. June featured an online chess competition and a Doodle Art Competition in accordance with International Anti-Drug Day.

In July 2023, FISAT NSS units conducted 'The Mann Ki Baat Quiz,' aiming to enlighten the youth through a quiz competition. August began with 'Patheyam' - a food donation drive to eliminate hunger. 'BOW OUT' was a heartwarming farewell event for senior students, and the 'Dress Bank' initiative collected and distributed clothing for the destitute. August concluded with 'Patheyam - Sasneham oru oonu,' a massive food donation drive that involved volunteers sharing meals with those in need.

In September 2023, NSS units organised an orientation program for first-year students and celebrated Engineers' Day with a Crossword Puzzle Competition named 'PuzzleMania.' NSS Day was celebrated with flag hoisting, cultural activities, and a visit to Nazareth Balabhavan. On Founder's Day, members visited an old-age home. The month concluded with a flash mob promoting cleanliness as part of the Swachh Bharat Abhiyan. These events showcased the dedication and impact of FISAT's NSS units in creating positive change in society.

18. Institute of Electrical and Electronics Engineers IEEE

FISAT SB had a bustling year in 2022-2023, organising a total of 8 major events that left a significant impact. It all started with SB Knockout 2.0, where teams from 18 colleges across Kerala competed fiercely in a variety of competitions, including a 24-hour hackathon, coding competition, debate, and a best manager challenge.

Following this, the Rural Initiative for Digital Empowerment (RIDE) aimed to provide technical training to higher secondary students in programming languages, benefiting 10 volunteers from IEEE FISAT SB and the students at NSS HSS Adoor. The event also extended its reach to empower local housewives in utilising the internet and online platforms for lifestyle improvement.

In celebration of the 20th-anniversary IEEE FISAT SB, a series of 6 events took place over 20 days. RAW (Robotist Around the World) kicked off the celebration with 5 international speakers sharing insights into various fields of robotics, attracting over 600 students from across India. IMPULSE 4.0, a Techno-Managerial flagship event funded by IEEE Signal Processing Society and IEEE Robotics and Automation Society, featured workshops, competitions, and a panel discussion, drawing participation from 180+ students.

SKILLDIVE, a two-day mock placement drive, provided essential training to 150 students on preparing for placements through technical training, aptitude training, mock interviews, group discussions, and coding tests. DROID 3.0 followed, a three-day technical event with prominent speakers in the field of robotics, hosting workshops and attracting over 170 students.

OPTIMUS 2.0, a robotics expo, became the largest expo in Kerala, featuring collaborations with robotics companies and engaging 160+ students. EDEN, a humanitarian event in collaboration with Inclusys Org, focused on empowering neurodivergent students, involving 60 students in a typing competition and a group skit organised by the students which were showcased to an audience of 150+ individuals. The winners were duly awarded.

P-hack (Power Hack) concluded the eventful year with a 5-day humanitarian project where 40 volunteers from IEEE FISAT SB renovated 35 houses in Vachumaram Tribal Colony, including electrical rewiring and painting.

Notably, the contributions made by IEEE FISAT SB through projects like RIDE, EDEN, and P-hack reflect a commitment to societal impact. RIDE facilitated technical training for higher secondary students, EDEN empowered neurodivergent students through inclusive events, and P-hack brought tangible improvements to the living conditions of residents in the Vachumaram Tribal Colony. These initiatives showcase the IEEE FISAT SB's dedication to making a positive difference in the community.

In recognition of its outstanding contributions, IEEE FISAT SB earned prestigious awards during the 2022-2023 period. The accolades include the IEEE Regional Exemplary Student Branch Award, highlighting the branch's exemplary performance within the IEEE community. Additionally, the IEEE India Council Outstanding Student Branch Award underscores the exceptional achievements of IEEE FISAT SB at the national level. The branch was honoured with the Darrel Chong Award 2022 in the Bronze Category for its commendable Student Development Program.

19. Indian Society for Technical Education ISTE

The Indian Society for Technical Education (ISTE) is a prestigious national organisation in India that focuses on promoting quality technical education and fostering professional development among educators and students in the field of engineering and technology. In 2023, the chapter took the initiative to boost its activity by enrolling all first-year students as members of ISTE. An orientation program was also organised for the first year students. A series of technical events and workshops enriched the academic calendar at FISAT. Dr. C. V. Lal, a retired professor from Government Engineering College, Thrissur, delivered a technical talk on "Vastus: Sastra Vs Engineering" on October 18, 2022. This was followed by a Microsoft Power BI workshop conducted by Mrs. Shruthi Bhaskaran and Ms. Lakshmi Nandakumar, Assistant Professors in the ECE department, on December 8, 2022. In January 2023, the ECE department hosted two technical talks: one on "Adaptive Signal Processing - An Overview" by Dhanya S and another on "Understanding DFT Equation: A Graphical Perspective" by Mr. Basil K. Jeemon. Dr. R. Sathiskumar, Head of NICMAR Hyderabad, enlightened students about the scope of engineering graduates in the techno-management sector on February 14, 2023. Lastly, ISTE supported the International Conference on Structural Engineering and Construction Management (SECON'23) from June 7 to June 9, 2023, with Dr. Albert Thomas from IIT Madras and four other speakers. These events contributed significantly to the academic and professional growth of the students.

20. Sports

The FISAT men's basketball team made commendable achievements during this year. The team won 6 titles including APJ AKTU Inter Zone and D Zone tournaments. The volleyball men's team won 4 titles whereas the he womens team won the D Zone title. The cricket team was the runner up in the D Zone match of KTU. The women's basketball team was the runner up in the FISAT trophy. The football team was the runner up in the KTU D zone tournament. The campus hosted the APJ AKTU Interzone TableTennis Tournament during the month of November 2022. The utilisation of the fitness centre demonstrated improvement, with an increased number of students registering for it.

There have been several individual achievements for students this year at the university level

- Dominic D Varakukala (S8 BTech ME) , Represented APJAKTU in South Zone Inter University Basketball Tournament at SRM University, Chennai.
- Tony Benny (S8 BTech ME) Represented APJAKTU in South Zone Inter University Basketball Tournament at SRM University, Chennai
- Nikhil Thomas- (S6 BTech ME) Represented APJAKTU in South Zone Inter University Basketball Tournament at SRM University, Chennai
- Aswin Binu- (S2 MCA), Represented APJAKTU in South Zone Inter University Basketball Tournament at SRM University, Chennai
- Nijail Giri - (S4 BTech CSE), Represented APJAKTU in South Zone Inter University Chess Tournament at SRM University, Chennai
- Anirudh P (S4 B Tech ME) Represented APJAKTU in All India Inter-university Fencing Championship held at University of Jammu & Represented Kerala State in the Junior National Fencing Championship at Sonapat, Haryana.
- Nithin Das (S2 MCA), APJAKTU Volleyball (MEN) team member participated in the South Zone Inter-University tournament scheduled to be held at SRM University Chennai
- Akshay P (S6 BTech CSE) - APJAKTU Volleyball (MEN) team member participated in the South Zone Inter-University tournament scheduled to be held at SRM University Chennai
- Anusree Prakash (S6 BTech CSE) Represented APJAKTU in All India Inter-university Tug O War Championship held at AMET University, Chennai
- Vishnu V B (S2 BTech EIE)- APJAKTU in the South-zone Inter University Cricket tournament held at REVA University Bangalore
- Diya Sajeev (S2 MBA) - Represented APJAKTU in South Zone Inter-university Basketball tournament held at University of Madras.

21. Parent Teachers Association

FISAT continued to benefit immensely from the unwavering support of the Parent-Teacher Association, which has been a tremendous asset over the years. The PTA's generous financial backing has greatly enhanced students' placement training initiatives, and their contributions extend to organising the annual general body meeting and first-year student induction ceremony. PTA honoured students with highest academic scores in each branch with PTA perseverance awards. Moreover, the PTA's support has been valuable during our NAAC and NBA accreditation visits. Mr. J R Sreekanth is the present PTA Vice-President.

22. Alumni Association

The alumni association FISTAA was officially registered in the year 2021-22. In the year 2022-23, a number of initiatives were taken up with the generous support of all the members. Initial planning was coordinated through online meetings for the convenience of everyone and to ensure the participation of alumni who were abroad. Eight meetings were organised and discussions carried out to examine how alumni can be engaged and how they can contribute. ALMASHINES, an alumni management software, was linked to the FISAT website in February 2023. This software platform will create a common platform for alumni engagements. The association was successful in porting nearly 8750 alumni to FISTAA website, and at least 7000 have visited at least once to update their details. The process has been linked to department level administrators now, faculty members who can be aided by students as well who are in their final year.

FISTAA has also sanctioned a sum of Rs 25 lakhs from the Alumni association fund for the construction of the FISAT amphitheatre. The UAE Chapter of FISTAA was established in 2023 with about 70 members, and a number of programs were conducted by them like Onam celebration.

During the year 2022-23 alumni interaction with first year students was organised in every department, as part of their induction program.

23. Gender Equity Cell

Over the past year, the Gender Equity Cell has organised a series of programs aimed at promoting health awareness, gender neutrality, sensitization, women's empowerment, and fostering healthy competition among our students. The Health Talk program conducted in November 2022 provided an informative session on the importance of leading a healthy lifestyle and raised awareness about cancer prevention. The Gender Neutrality talk conducted in the same month focused on breaking down stereotypes, biases, and promoting gender equality among first-year students. The Sensitization Workshop held during December 2022 aimed to raise awareness about various social issues and the POSHA Act among both first-year and final-year students. In celebration of International Women's Day, in February 2023, the Gender Equity Cell organised a day-long event filled with activities such as painting, pencil drawing competitions, debates, and cake baking competitions. Winners were recognized and awarded during our Women's Day celebrations. These programs, organised by the Gender Equity Cell, have been successful in achieving their objectives. They have contributed to enhancing community awareness and celebrating important occasions like International Women's Day.

The report of the Departments in detail follows

24. Department of Civil Engineering

The Department of Civil Engineering witnessed a highly eventful academic year in 2022 - 2023, marked by a record-breaking number of placements, the introduction of industry supported add-on courses, and a significant increase in admissions to the B.Tech program. The activities of various professional bodies in the department during this period encompassed a diverse range of educational, experiential, and networking opportunities, empowering its members with a holistic understanding of Civil Engineering and its evolving landscape.

This year, the department gave more thrust to add on programs through which graduates are made more employable. For the final year students, add on courses on waterproofing and BIMlabs were conducted which helped in placements. A six days Add On course on Prefab techniques, Pest control, Flooring, Solar systems, Plumbing and Electrical systems was organised in association with Builders Association of India, Angamaly Centre and Skill Tech for third year B.Tech Civil Engineering students. The course aimed to provide practical knowledge and skills on various aspects of modern construction techniques and technologies.

Another key event for the department was the International conference on structural engineering and construction management SECON'23, which was conducted from 7th to 9 July 2023 in hybrid mode. The keynote speaker was Dr. Albert Thomas from IIT, Bombay.

The academic results of the 2023 passout B.Tech students was 69.72%, showing an improvement over the last year. The admissions also showed a great improvement, the number of students admitted is 100 in spite of the decreasing demand for the course in the state.

The department saw the highest record in core placements with 85 offers and 52 students placed. The Department also took initiative to submit the Self Assessment Report (SAR) to the National Board of Accreditation (NBA) on 14th June 2023 and the expert team visit concluded on 24th September 2023.

The list of activities the department has undertaken is given below:

- Industrial visit to Universal Concrete Technology by S3 SECM during 06.10.2022 to 09.10.2022
- Civil House-Alumni Talk 2 Series-3 by Mr. Nison James, Quality Engineer, Aarvee Associates-General Consultant, Kochi Metro on 21.10.2022
- Idukki Arch Dam Visit for S3 CEA and CEB students on 03.12.2022
- Add-on Course on Waterproofing & Insulation-Inauguration by Mr. Sudhish M S - Director, SIWIN, Er. Babu Varghese, Director of Projects, Lulu Group Er. Ramachandran Menon, Principal Consultant, Menon Associates, Er. SRC Nair - Guest Lecturer in CUSAT & VP of Kunnel Engineers and Contractors Pvt Ltd, Mr. Sunilkumar, Managing Director, Asset Homes Pvt Ltd. and Dr. Priya Ranjan Swarup - Director General - CIDC on 13.02.2023
- Industrial visit to Harangi Reservoir, St. Mary's Island Karnataka by S6 CE students during 13.03.2023 to 18.03.2023
- Green Home Tech Workshop in association with Builders Association of India Angamaly Centre during 22.03.2023 to 28.03.2023
- Quiz time - quiz competition for students by department student association on 05.04.2023
- Civil House - Alumni talk by Thanveer Ahamed K, Civil Estimator, Greater Hamilton, Canada on 25.04.2023

- Workshop on ETABS - Structural Design of Multistory Buildings by V Sujisha, HOD, Department of Civil Engineering, Jai Bharath College of Management & Engineering Technology from 25.04.2023 to 26.04.2023
- Hands on Training in QGIS by Mr. Bibin Hezakiel V, GIS Analyst during 04.08.2023 to 05.08.2023
- Building Planning and Drafting using AutoCAD by Johny Kaitharath and Aswathy Swagath, and Sayana CADD International during 11.09.2023 to 15.09.2023
- Introduction on Professional Bodies by Sreerath S, Neeraja N, Dr. Asha Joseph, Dr. Kavitha P E, Jawahar Saud S on 13.09.2023
- Orientation Program on GGBS and Sustainability by Mr. Sarath Vinod, Deputy Manager (Direct Sales), JSW Cement Ltd on 13.09.2023
- Visit to SOS Children's Villages India by ASCE student chapter on 08.10.2022
- Minnal Quiz-Kerala Piravi related quiz by students on 01.11.2022
- ASCE Day webinar on Know your Concrete by Er. Shyju Nair, CEO DH Academy on 05.11.2022
- Talk on Reinvent your potential by Er. Harishankar, IREZ Academy on 15.11.2022
- Seminar on Traffic Safety Awareness by AG Pradeep Kumar, Motor Vehicle Inspector Angamaly on 25.11.2022
- Industrial Visit: RWDI Trivandrum on 28.12.2022
- Technical Talk on Professional Ethics by Er. Mathews David on 26.04.2023
- Tree Plantation by Dalmia Cements, Dr. Molly Joseph on 05.06.2023
- Webinar on Circular Economy in Waste Management by Dr. Sudarsan J S, Program Director Environment, NICMAR on 05.06.2023
- Seminar on Career Opportunities for Civil Engineers in the Public Sector by Mr. Gokul, Ms.Beena B R on 17.08.2023
- Webinar on Opportunities in Quantity Surveying by Jubair K V, Senior QS Lead, Carbon Blue Global, Qatar on 24.08.2023
- Engineer's Day celebration on 15.09.2023
- Participation in Technical Talk on "Construction by Concrete 3D Printing" organised by IEI, Kochi Centre by Dr.A V Rahul, Asst. Prof., IIT Tirupati on 08.09.2023
- Participation in Engineers day celebration at IEI, Kochi, Chief Guest :Shri. N S K Umesh, IAS, Ernakulam Collector 15.09.2023
- Visit to MATTER Lab, Kozhikode hosted by Er. Freddy Soman, General Manager, Matter Lab on 13.12.2022
- Visit to Kochi Water Metro, High Court EKM hosted by Er. Babu K S, Secretary, IEI, Kochi on 21.12.2022
- Visit to Chellanam Tetrapod Construction & Laying Site hosted by Er. Aswin Subhan, Assistant Engineer 3, KIIDC on 04.03.2022
- Inauguration of ICI student chapter and Technical Talk on Sustainable Aspects of Latest Construction Practices by Dr. Anil Joseph, Managing Director, Geostrutturals (P) Ltd. and Chairman, ICI Kochi Centre on 13.04.2023

Listed below are the achievements of students and staff members during the period

- Ms. Vinaya Happy won the K U Joseph Memorial Award for outstanding performance in First Year
- Mr. Aadil M - Member of college basketball team who were the winners of D championship 2002-23 held at RSET , Kakkanad
- Ms. Nikitha and Sandra S are the Member of college basketball team who were the runners up of D championship 2002-23 held at RSET , Kakkanad
- Ms. Vinaya Happy was Awarded the Outstanding Performer of the department. 27/06/2023

- Vishnudatha V, 2016-20 batch (Alumni) Won the Institute Gold Medal for the highest overall CGPA in M Tech and M Des programs and Institute Silver Medal for the highest overall CGPA in the Civil Engineering department at IIT Hyderabad
- Ms. Beena B R Awarded PhD degree from National Institute of Technical Teachers' Training and Research (University of Madras)
- Jawahar Saud S served as the Resource person for a technical talk on "Invest in Planet using Smart Technologies" conducted by Department of Computer Science Engineering, FISAT on 09/02/2023
- Ms. Sumayya Naznin P H Received the best technical paper for the paper "Determination of factors affecting the WTP elicited by CV payment card method using SEM" at the International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges (SIIOC 2023) held at NITK Surathkal
- Dr. Asha Joseph Chaired technical session of KSCSTE sponsored International Conference on Innovative Trends in Engineering for Sustainability, organised by the Department of Civil Engineering, ToCH Institute of Science and Technology, Ernakulam
- Dr. Kavitha P E served as the Reviewer of the "National Conference on Materials, structures and Environment organised by the Department of Civil Engineering, NSS College of Engineering from 16-17 June 2023
- Ms. Keerthi Sabu selected as the Reviewer for the Journal of the Institution of Engineers (India): Series A
- Dr. Asha Joseph Chaired technical session of national Conference on Materials, Structures and Environment, organised by Department of Civil Engineering, NSS College of Engineering, Palakkad
- Dr. Asha Joseph served as Reviewer - National Conference on Materials, Structures and Environment, organised by Department of Civil Engineering, NSS College of Engineering, Palakkad
- Dr. Unni Kartha G undertook consultancy work worth Rs. 1,20,000/- for FACT for vibration studies during August-September 2023

Publications:

- Ms. Beena B R, "Competency Evaluation using Graduate Attributes – A comparative study", Journal of Engineering Education Transformations.
- Dr. Unni Kartha G, Neeraja Nair, "A study on the effect of tank shape on the performance of tuned liquid dampers Recent advances in materials, mechanics and structures", Lecture notes in civil engineering 269.
- Jawahar Saud S, "Flood Prediction Using Analytical Hierarchy Process of Thiruvalla Taluk, Pathanamthitta, Kerala", India International Conference on Systems, Energy and Environment 2022 (ICSEE 2022).
- Nincy Jose, "Improving collapse performance of steel frame with efficient design of reduced beam sections", Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Rajalakshmi T R, "Landslide Hazard Zonation of Peerumedu Taluk Using ArcGIS", Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Neeraja Nair, "Structural Performance of Composite Walls Composed of Profiled Steel Skin and Rubberized Concrete", Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Neeraja Nair, "Analysis of Steel Dual Ring Damper in a Braced Steel Frames", Proceedings of SECON'22, Lecture Notes in Civil Engineering, vol 284.
- Sreerath S, "Study on the Properties of Alccofine-1203 Based Self Compacting Concrete", Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Sreerath S, "Seismic Performance of Composite Structure Assembled with Cold Form

Self-Defending Frame”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.

- Sreerath S, “Static Investigation of Plants Inspired Bio-Mimic Column Structures”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Sreerath S, “Experimental Study on Pervious Concrete with Silicafume as Cement Replacement”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Gayathri Krishnakumar, “Structural Performance of Special Case S-RC-SRC Beam Column Connection Joint”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Gayathri Krishnakumar, “Study on Steel Slit Shear Walls with Different Characteristics of Hysteretic Behavior”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Preethi M, “Structural Performance of Innovative Connection Between Concrete Flat Slab and Steel Column”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Preethi M, “Structural Behavior of Non-prismatic Dual Tubular Steel Long Columns”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Dr. Jiji Antony, “Numerical Investigation of ‘Ogrid’ Bracing System”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- P. H. Sumayya Naznin, Leena Samuel Panackel, “Estimation of Willingness to Pay for Reducing Road Accident Risk Using Route Choice Model”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- P. H. Sumayya Naznin, Leena Samuel Panackel, “Accident Prediction Modelling and Crash Scene Investigation”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Reshma Prasad, “Comparison of Structural Performance of U-Shaped Concrete Composite Beam having Steel Encasing with Corrugated Profiles”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Beena B R, “Seismic performance of braced ductile shear panel”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Nincy Jose, “Structural performance of innovative CFS integrated ultra light weight composite beams”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Dr. Asha Joseph, “Effect of Openings in Post-tensioned Shear Wall with External Energy Dissipating Reinforcements Under Cyclic Loading”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Dr. Kavitha P.E, “ Structural Performance of Pre-twisted Composite Column”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Dr. Asha Joseph, “Thermal and Structural Behavior of Precast Concrete Sandwich Panels”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284
- Dr. Asha Joseph, “Strength Optimization of Litzka Type Welded Beams by Varying Angleof Castellations”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Dr. Kavitha P.E, “Structural Behaviour of Tapered Piles Under Imperfection Scenario”, Proceedings of SECON'22. Lecture Notes in Civil Engineering, vol 284.
- Simi Rachel Thomas,Vandana Surendran,Shalet Shajan,Stanly K. A, “Flood Prediction Using Analytical Hierarchy Process of Thiruvalla Taluk, Pathanamthitta, Kerala, India”, International Conference on Systems, Energy and Environment 2022 (ICSEE 2022).

Academic Results

Admission Year	Class Semester &	Number of students	of	Number of students passed	of	Results (percentage)	Program pass (for s8 only)
2022	S1 CE	68		39		57.35	

2021	S2 CE	96	50	52.08	
2021	S3 CE	103	46	44.66	
2020	S4 CE	60	38	63.33	
2020	S5 CE	60	38	63.33	
2019	S6 CE	109	94	86.23	
2019	S7 CEA	109	87	79.80	
2019	S8 CEA	109	101	92.66	69.72
2021	S3 SECM	23	23	100	
2021	S4 SECM	23	21	100	91.30

25. Department of Computer Science and Engineering

The year 2022-23 marked a year of remarkable achievements for the Department of Computer Science and Engineering (CSE) on multiple fronts. Notably, the 2019-2023 batch achieved a record-breaking program pass percentage of 89.73%, setting an all-time high for our department. This batch also celebrated a significant milestone by securing the highest number of job offers, with 113 students receiving at least one offer of employment.

The department proudly hosted the sixth International Conference on Advanced Computing, Communication, and Technology for High-Performance Applications (ICACCTHPA '23) in January 2023, with the esteemed sponsorship of IEEE. Additionally, the Free Software Cell of CSE organised the National Conference on Free and Open-Source Software (ICEFOSS '23), further enriching our academic calendar. The student-led cells, including ACM, Thyra, and the CSI Chapter, played an active role in conducting numerous programs and events that proved to be beneficial for students and faculty alike. These initiatives have collectively contributed to the department's overall success and growth.

The list of activities the department has undertaken is given below:

- Alumni Talk by Divya Jose T, Tech Lead-Nissan, Antony Mathews, Consultant- Deloitte, Githin Joseph, Staff Software Engineer-IBM, Allan Jojo.Data Engineer-Nissan on 26/10/22
- Alumni Interaction by Rose Stombel, 2018-22 batch, Assistant System Engineer - Trainee at TCS on 28/10/2022
- Induction Programme for first year students, various sessions, like College and Department overview, KTU rules, Placements etc. on 29/10/2022
- Alumni interaction for first year students by Sreehari C.P.(2015-19 batch), Threat Analyst, SOPHOS on 29/10/2022
- Invited Talk on Entrepreneurship and Startups by FCS by Prasanth Pillai, CEO, Toffee Ride on 3/11/2022
- Invited Talk on 'Importance of Resume building for higher studies and placements by Career Labs, coordinated by CSI on 17/11/2022
- Faculty and Students interaction with Hasum Jacob Thenumgal, Senior Director- Sales | EU Tata Consultancy Services & Advisory Committee member of CSE on 24/11/2022
- One-day workshop ' EDGE', Organised by Department of ACM, CSE on 26/11/2022
- Invited talk & Charity work as part of NCC Day celebration Organised NCC unit on 27/11/2022
- THYRA, CSE Students Association conducted 'RADIANT', quiz competition for students on 01/12/2022
- Weapon Exhibition for FISATians as part of NCC inauguration, Organised by NCC on 01-12-2022
- Hour of Code' at Govt. Higher secondary School, Mookkannoor, organised, Organised by ACM, Department of CSE on 2/12/2022
- Workshop on LaTeX by Dr. Jestin Joy,Asst. Proff, St George's College , Aruvithara on 05-12-2022
- IEEE International Conference ICACCTHPA 23 during 20/01/23, 21/01/23. Keynote Addresses on
 - "Block chain Technology" by Dr Panjami V, Asst. Prof IIIT Kottayam
 - "Self-Reliance and Beyond in Defense Technology" by Ms. Rameetha K, Associate Director (Submarine Systems)
 - "Recent advancements in face recognition systems" by Mr. Deen Dayal Mohan,

Research Associate, University of Buffalo

- Seminar on 'Career & Education Abroad' by National Head D'Victoria of ISDC, National Head, D'Victoria of ISDC on 23/01/23
- Visit of Gifted Children from Aluva Educational District and conducted Class for 50 students. On 11/02/2023
- Webinar on Value of IEEE Xplore & EBSCO eBooks in Research & Career Development in association with NDLI Club on 29/03/23
- Celestia'23, Technical Quiz competition Organised by ACM on 26/06/2023
- Technical Talk on Git Hub by Joel Nickson, CSE Alumni on 07/07/23
- VR Workshop for faculty by XR Horizon Private Limited, Cochin from 27/07/23 to 29/07/23
- Workshop on Web Application Development using 'React' for S5 CSD by Mr. Anish S Nair Co-Founder and CEO, Logix Space Technologies Pvt Ltd during 07/09/23 to 09/09/23
- Add-on programme on iOS App Development by Mr. Akash C.K, Manager, Training and development, education. Mr. Afthab Ahmad K.M Trainer & presales, Education iPlanet from 07/09/23 to 16/09/23
- Add-on course Full Stack Development (for S7) by TECHBYHEART, Kadavanthra, Cochin from 11/09/23 to 13/09/23
- Add-on course Full Stack Development (for S5) by TECHBYHEART, Kadavanthra, Cochin on 14/09/23
- Webinar on Value of IEEE Xplore & EBSCO eBooks in Research and Career Development by Mr. Nanda Lal T.S, Senior Training Manager, South India, EBSCO information services, New Delhi on 18/09/23

Listed below are the achievements of students and staff members during the period

- Mr. Jithesh V won the Best non-teaching staff for the year 2022
- Dr Prasad J C Successfully completed PRCN course of NCC at OTA, Nagpur. 12 /06/23 -10 /9/ 2023 and awarded the Lieutenant rank
- Mr. Pankaj Kumar & Dr Arun Kumar M N won the Best Paper award at International Conclave on Skills, Engineering and Technology on 23/9/2023
- Mr. Pankaj Kumar Served as Mentor for 'Project for helping autistic children for NGO-Inclsys, under the patronage of TCS in August 2023
- Mr. Mahesh C served as the Speaker in the FDP organised by CUSAT. Topic: Programming & Distributed Deep learning with PyTorch during 19/10/2023-20/10/2020
- Dr Jyothish K John Recognized as research supervisor by KTU
- Dr Hema Krishnan Recognized as research supervisor by KTU
- Dr Reshmi R Recognized as research supervisor by KTU
- Dr. Paul P Mathai successfully completed the Advanced Training Program on Cloud Computing conducted by WIPRO as part of Talent NeXT. during 10/07/2023-14/07/2023
- Dr. Jyothish K John served as the Reviewer of ICIET conference conducted at Ilahia College of engineering, Muvattupuzha, July 2023
- Dr. Paul P Mathai served as the Reviewer of ICIET conference conducted at Ilahia College of engineering, Muvattupuzha, July 2023
- Dr Hema Krishnan served as the Reviewer of ICIET conference conducted at Ilahia College of engineering, Muvattupuzha, July 2023
- Dr. Paul P Mathai served as the Resource Person at SNMIMT for NAAC Awareness Program May 2023
- Ms. Jismy Mathew Secured Elite Certificate in Programming in java in issued by NPTEL during May 2023

- Mr. Pankaj Kumar G delivered guest lectures on Machine Learning and Deep Learning in a "12 days' workshop on Research methodology, publication, and ethics for Ph.D. scholars" organised by Noorul Islam Centre of Higher Education, Kumaracoil in May 2023.
- Dr. Paul P Mathai served as a reviewer for the International Conference on Power Instrumentation Control and Computing at Government Engineering College, Thrissur in April 2023.
- Ms. Preethi N P secured an Elite Certificate for 'Advanced Graph Theory' in NPTEL exams in April 2023.
- Ms. Anitha T Nair secured an Elite Certificate for 'JAVA programming' in NPTEL exams in April 2023.
- Ms. Lakshmi S, Dr. Hema Krishnan, and Ms. Merin Cherian secured NPTEL online certifications in Data Mining for the period of January to March 2023.
- Dr. Jyothish K John was a panellist in the panel discussion titled 'Transformation Tour Accelerating IT Transformation for New India - Challenges' organised by DELL & Indian Express in February 2023.
- Dr. Prasad J C conducted an invited talk on 'Engineering Branches' as a resource person for Gifted Children at Kaduthuruthy Educational District, Kottayam in February 2023.
- Dr. Prasad J C led a Social activity for a health awareness program of Mookkannoor Vikasana Samithi as the NCC officer of FISAT in February 2023.
- Dr. Jyothish K John served as a Resource Person for the FDP on Distributed Computing organised by Sree Narayana Gurukulam College of Engineering in January 2023.
- Mr. Pankaj Kumar was a Resource Person for the FDP on "Blockchain and Big Data Analysis" organised by Sree Chitra Thirunal College of Engineering, Pappanamcode, Trivandrum in January 2023.
- Mr. Anuranj P was a Winner for the FISAT CUP 23 as a member of the team in January 2023.
- Dr. Jyothish K John received an Indian Patent granted for 'Electronic ViewFinder for Digital Camera' in December 2022.
- Dr. Paul P Mathai received an Indian Patent granted for 'Electronic ViewFinder for Digital Camera' in December 2022.
- Dr. Jyothish K John served as a Resource Person for the Workshop "Wireshark and NS2" conducted by ECHO, ECE department in November 2022.
- Dr. Paul P Mathai served as a Supervisor for Ms. Jyotsna E, admitted as a Full-Time Research Scholar (with APJAKTU Doctoral Fellowship) in November 2022.
- Dr. Siyamol C was awarded a Ph.D. from CUSAT for her Thesis 'Study, Design, and Development of Novel Encryption Technique for Digital Images Using Chaotic Map and DNA Cryptography' in October 2022.
- Mr. Pankaj Kumar served as a Mentor and completed the live project for CIAL, Cochin in October 2022.
- Mr. Pankaj Kumar secured the best paper award for the paper 'Lithium-Ion Battery Modeling: A Machine Learning Approach' in Metaverse Conclave held at CIAL convention centre organised by ICT Academy, Kerala in September 2022.
- Dr. Jyothish K John served as a Resource Person for FDP 'Web Application Tools and Cloud Deployment' for FISAT CSE Staff in September 2022.
- Mr. Pankaj Kumar served as a Resource Person for FDP 'Web Application Tools and Cloud Deployment' for FISAT CSE Staff in September 2022.
- Ms. Lakshmi S attended an online certificate course on Deep Learning for Beginners conducted by the Centre for Artificial Intelligence, TKM in September 2022.
- Dr. Hema Krishnan attended an online certificate course on Deep Learning for Beginners conducted by the Centre for Artificial Intelligence, TKM in September 2022.

Student Achievements

- Neeraj Suresh (S3CSC) secured the 'Best Library User Award' for the year 2022-2023 on 27/9/2023.
- Joyal Devassy (S7 CSB) secured the P V Mathew Memorial Award on 27/9/2023.
- Sonal Sabu (S5CSB) completed a 'Project for helping autistic children' for NGO-Inclsys, under the patronage of TCS in August 2023.
- Polwin Davis (S5CSB) also completed a 'Project for helping autistic children' for NGO-Inclsys, under the patronage of TCS in August 2023.
- Nijay Giri (S5 CSB) ranked FIRST in an online chess competition as a part of National sports day in FISAT in August 2023.
- Keerthana Vijay (S5 CSB) won the Dr. K U Joseph Memorial Award in August 2023.
- Sreerag K (S2 CSC) secured 2nd place in an inter-collegiate math quiz organized by the Department of math, Bishop Chaluparambil Memorial College, Kottayam in September 2023.
- Vysakh Madhu (S6 CSC) secured the Mr. Shinoy Memorial Award in July 2023.
- Vyshnavi Rejikumar (S6 CSC) also secured the Mr. Shinoy Memorial Award in July 2023.
- P V Keerthana (S6 CSC) secured the Mr. Shinoy Memorial Award in July 2023.
- Vyshnav Nair (S2 CSC) received the 'Best Cadet award' from Commanding officer of 22-Kerala Battalion col.Vikrant Adhikari in May 2023.
- Akhil babu M K (S4 CSA) secured the 2nd prize in KAK-23 conducted by KMEA Engineering College in April 2023.
- Neeraj Suresh (S2 CSC) also secured the 2nd prize in KAK-23 conducted by KMEA Engineering College in April 2023.
- Timothy M Abey (S2 CSB) secured the 2nd prize in KAK-23 conducted by KMEA Engineering College in April 2023.
- Aman Jose and Akshay K (S6 CSA) won the 'PV Mathew Memorial award' for the Inter-departmental math quiz in January 2023.
- Gokul K Jayan (S3 CSA) and Ajin Abraham (S7 CSE A) won D-zone and Inter-zone Basketball Tournament in December 2022.
- Rohit S and Aisya S (S7 CSE) participated in the '15th Urban Mobility Conference and Expo 2022' hosted by the Ministry of Housing and Urban Affairs, Government of India, in November 2022.
- Paul Elias Sojan, Nino Joy, and Naveen B Jacob (2018-22 batch CSE) developed a Sign language app for Indian Sign Language research and Training Centre and delivered as per the MoU with FISAT.
- Joe Paul (2019-23 batch CSE) was offered by Kaleyra with the highest package of 17.04 L/ anum in May 2023.
- Timothy M Abey (S4 CSE B) and Nirmal Michael (S6 CSE B) secured the Second position in the Ideathon-2023, an Inter-Collegiate Project Competition organized by the Department of Computer Science, St. Albert's College (Autonomous), Ernakulam in March 2023.
- Ann Maria Raju, Aneeta Rose T R, and Anjal P Dijo (S4CS A) were selected as Design Team Members, Associate Community Managers, and WIE Co-Coordinator of IEEE Kerala Section in February 2023.
- Aleena Mathews, Govind M H, and Keerthana V (S4 CSE) secured SGPA 10 in S2 Univ Exam Results in February 2023.

Publications

- Dr. Jyothish K John, Deepu Cyriac, Jenet Jose, Harishankar A, Allen K Prince, "A review of driver drowsiness Detection method", International journal of novel research and development (ijnrd) |, issn:2456-4184, vol.8, issue 2, page no.1-6, February-2023.

- Dr. Jyothish K John, Deepu Cyriac, Jenet Jose, Harishankar A, Allen K Prince, IEEE International conference on Advanced Computing and Communication Technologies for High Performance Applications, 2023.
- Dr. Paul P Mathai, Lakshmi Shaju, Rahul K Sajith, Reshma N P, Vinayak N, "Prediction of Right Bowlers for Death Overs in Cricket", Journal of Applied Science, Engineering, Technology and Management, 1(1), 21–27, 2023, International journal.
- Dr. Hema Krishnan, Anagha Jayaraj, Christy Thomas, Gracemol Joy, "Pose Estimation of Yoga Poses using ML Techniques". In 2022 IEEE 19th India Council International Conference (INDICON) (pp. 1-6). IEEE, International Conference (Scopus indexed).
- Dr. Hema Krishnan, Aneeta Roy, Athul K Menon, Devnandan S, Honeymol Babu, "Natural Disaster Detection Using social media", Advanced Computing and Communication Technologies for High Performance Applications (ACCTHPA) (pp. 1-6). IEEE, 2023, International Conference (Scopus indexed).
- Sruthy Suresh, Jayprakash S Nair, Divya D Kulkarni, Ajitem Joshi, "On Decentralizing Federated Reinforcement Learning in Multi-Robot Scenarios", International Conference (Scopus indexed).
- Anuranj Pullanat, "VANET Hybrid Routing Protocol - Featuring Perpetual Hopfield Network and Enhanced K-Means Clustering Algorithm", Communication and Intelligent Systems. ICCIS 2022. Lecture Notes in Networks and Systems, vol 686. Springer, Singapore. https://doi.org/10.1007/978-981-99-2100-3_43, International Conference (Scopus indexed).
- Anuranj Pullanat, "Large Data Block Transmission In VANET", 2023 Advanced Computing and Communication Technologies for High Performance Applications (ACCTHPA), 1-8, 2023, International Conference (Scopus indexed).
- R. Sreyas, Rosmi Johnson, Sanjay John, Vignesh S Kumar, "Continuous Face Authentication and Hand Gestures for OS Control using MobileNet V2 CN", TIJER - International Research Journal (www.tijer.org), ISSN:2349-9249, Vol.10, Issue 5, page no.384-392, May-2023, International Journal.
- Jismy Mathew, Nanditha Balamurali, Nisha Basil, Shreya H Prabhu, T C Sanika, "An Intelligent Cyber Security Phishing and Cyber Bullying Detection System Using Machine Learning Approach", International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 11, Issue 5, May-2023, International Journal.
- Dr. Reshmi R, Soumya S Raj, "Implementation of Baseband Binary Communications over a Distorted Channel", Mathematical Statistician and Engineering Applications, 71(4), 8299–8309, 2023, <https://doi.org/10.17762/msea.v71i4.1459>, International journal (Scopus indexed).
- Lakshmi S, "A Study on Student Performance Prediction and Intervention Mechanisms in MOOC", Proceedings of the 14th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2022). SoCPaR 2022. Lecture Notes in Networks and Systems, vol 648. Springer, Cham., 2023, International Conference (Scopus indexed).
- Nithya Paul, "A Comprehensive Study on early detection of Skin cancer" in International Journal of humanities, Law and Social Sciences, ISSN 2348-8301, Special Issue IV, Issue I:2023, UGC CARE approved, Group I, Peer Reviewed and Referred journal by New Archaeological & Genealogical Society Kanpur, India, 2023, International Conference.
- Merin Cherian, "Evaluating the Grammatical Correctness of Malayalam Text using improved Text GCN in SSRG"- International Journal of Engineering Trends and Technology, International journal (Scopus indexed).
- Chethna Joy, "Artificial Intelligence Based Test Systems to Resist Waterborne Diseases by Early and Rapid Identification of Pathogens: A Review." SN Computer Science 4.2 (2023): 180, International journal (Scopus indexed).

- Akhil Babu M K, Nirmal Michael, Timothy M Abey, Edric Bijoy Paul and Pankaj Kumar G, “Behavior-Based Malware Classification Using System API Vectorization and Machine Learning Algorithms”, SUMMIT'23@IIIT Kottayam, June 2023, National Conference.
- Akhil Babu MK, Timothy M Abey, Pankaj Kumar G, “Enhancing Malware Classification Through System API Vectorization and Machine Learning Techniques”, International Conclave on Skills, Engineering, and Technology (ICSET) by ICT Academy of Kerala, September 2023, International Conference.
- Neeraj Suresh Naila K S, Pankaj Kumar G, “Enhancing Swimming Pool Safety through Advanced Object Detection in Adverse Weather Conditions”, International Conclave on Skills, Engineering, and Technology (ICSET), ICT Academy of Kerala, September 2023, International Conference.
- Edric Bijoy Paul, Hisham Muhammed, Eby Kurian, Pankaj Kumar G, “Enhanced Brain Tumor Segmentation with Deep Learning: A Comprehensive Analysis and Clinical Implications”, International Conclave on Skills, Engineering, and Technology (ICSET), ICT Academy of Kerala, September 2023, International Conference.
- Pankaj Kumar G, Dr. Arun Kumar M N, “Brahma 3D: Revolutionizing Virtual Reality Development with Generative AI-Powered Code Generation”, International Conclave on Skills, Engineering, and Technology (ICSET), ICT Academy of Kerala, September 2023, International Conference.
- Neeraj Suresh, Naila K S, Pankaj Kumar G, “Analysis of Restaurant Reviews Using Clustering Algorithms”, International Conference on Contemporary Business Trends, Technology Driven strategies for Business Transformation, NIT Srinagar July 2023, International Conference.
- Remya R, “Segmentation and Registration of OARs in HaN Cancer.” International Research Journal of Engineering and Technology, 2023, pp. 887–92, www.irjet.net, International journal.
- Remya R, “Cervical cell classification using Deep Learning Techniques”. In 2023 International Conference on Computer Communication and Informatics (ICCCI) 2023 Jan 23 (pp. 1-5). IEEE, International Conference (Scopus Indexed).
- Dr. Prasad J.C, “Data Security in Medical Reports and Online Purchase Using Blockchain Technology”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022. pp 147, National Conference.
- Dr. Prasad J.C, “Integrating Blockchain in Healthcare Supply Chain System Using Smart Contracts”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022, pp 167, International Conference (Scopus indexed).
- Beenu Riju, “A Two-Way Integrated Communication System for the Deaf and Mute, Springer Nature Lecture notes in Networks and Systems, SoCPaR”: International Conference on Soft Computing and Pattern Recognition, International Conference (Scopus Indexed).
- Anitha T Nair, Dr. Arun Kumar M N, “Segmentation of Retinal Images Using Improved Segmentation Network, Mesu-Net”, International journal of online and biomedical engineering, International Journal (Q2).
- Joel Jorly, Nahid MA, Paul Elias Sojan, Shiv Shankar Nath, Pankaj Kumar G, “Advanced small object detection and tracking”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022, National Conference.
- Dr. Hema Krishnan, Anagha Jayaraj, Anagha S, Christy Thomas, Grace Mol Joy, “Pose estimation using machine learning techniques”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022, National Conference.

- Sumi Purushothaman, Dr.Prasad J C, “Data security in medical reports and online medical purchase using blockchain technology”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022, National Conference.
- Ailin Maria Lopez, Aishwarya Menon, Aishwarya Teresa Anthony, Anoop Antony Albi, Dr. Prasad J C, “Integrating blockchain in healthcare supply chain System using smart contracts”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022, National Conference.
- Anuranj P, Syam Babu, John J Prakash, Rakenth PC, Pranav Swaroop, “Face recognition attendance system based on real-time video processing”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022, National Conference.
- Lakshmi S, Keerthana A, Keerthy E J, Namitha Tom, Suzaine Ayickal, “Prediction of student’s performance based on Feedback using machine learning algorithms”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022, National Conference.
- Soumya S Raj, Athulya K B, Bhagya Babu, Devana C U, Gautham R Kartha, “Planetary exploration by image inpainting”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022, National Conference.
- Narayanan V Eswar, Pankaj Kumar G, “Literary survey on object detection and Tracking techniques”, Proceedings of National Conference on Artificial Intelligence and Cognitive Computing, Federal Institute of Science and Technology, 14 – 15 July 2022, National Conference.

Academic Results

Admission Year	Class Semester	& Number of students	Number of students passed	Results (percentage)	Program pass (for s8 only)
2019	S8CSE	129	124	96.12	89.73
2020	S5 CSE	124	90	72.58	
2021	S3 CSE	130	100	76.92	
2021	S3 CSD	63	47	74.6	
2022	S1 CSE	196	170	86.73	
2022	S1 CSD	66	54	81.82	
2021	S3 (M.Tech)	4	4	100	
2021	S4(M.Tech)	4	4	100	100

26. Department of Electronics and Communication Engineering

The Department of Electronics and Communication had a profoundly fruitful year in terms of admissions and university results. In the 2023 batch, the department has 100% percent admission in B.Tech with 132 seats. The University results for 2021 and 2022 admissions were above 75% and are higher than our competitors. As in previous batches, the department continues to have 100% for M.Tech in VLSI and Embedded Systems.

Faculty and students of the department have excelled in academic and research domains. They have published in reputed conferences and journals. Some of the faculty members served as reviewers for national and international conferences and journals, as mentors for NPTEL courses. Sheelu Susan Mathews finished among the top 5% of the successful candidates for the NPTEL Course in CMOS Digital VLSI Design. Faculty members received university seed grants for research projects, served as examiner for Ph.D viva, received fellowship for conferences etc. Some of them were invited by institutes of national importance as resource persons for technical sessions. Mr. Noble G. published a patent.

The Department has organised many technical talks, workshops etc for the students and faculty members. ECHO, the student association of the department and the Hobby Club organised various events and competitions. The NBA accreditation of the department was extended to 3 more years during this period after the compliance visit. The department contributed substantially for the re-accreditation of the institute by NAAC.

The list of activities the department has undertaken is given below:

- Workshop on Design and Simulation of Wireless Communication Systems using MATLAB by Basil K Jeemon on 22/5/2023
- Invited Talk on Basic Structures of our Constitution: Democracy and Preamble, Resource Person: Adv. K R Sumesh, B.A. LLB Koratty Grama Panchayat Vikasana Standing Committee Chairman on 29/3/2023
- Design Project Expo on 21/2/2023, 24/2/2023
- Star making contest on 23/12/2022
- Model the Motif in mind contest on 16/11/2022
- Seminar on Clustering Algorithms by Pankaj Kumar on 24/11/2022
- Workshop on Antenna Simulation using ANSOFT HFSS by Subha Thomas, Minu Kuriakose, Pearlsy P.V, Sreelekshmy S on 27/10/2023
- Fast Coding Challenge by Noble G, Manju C P, 03/08/2023
- Innovative Technology Proposal for Onam celebration by Noble G on 26/08/2023
- Ideate to Innovate: Shaping the Future by Noble G, Dhanya S on 08/09/2023
- Workshop on Introduction to IoT by Noble G on 25/09/2023
- Industry Oriented Semi Custom Layout Design Using Microwind and Cadence" Add on Course for 19-23 ECE A & B Batch by Nimmy M Philip, Deepa N R, Anoop E G, March 2023
- Poster Competition on 30/06/2023
- Project Competition on 26/06/2023
- Agnitio2k23 and Farewell of 2023 batch on 27/06/2023
- Insight into Australian Migration on 21/09/23

Listed below are the achievements of students and staff members during the period

- Mr. Noble.G Demonstrated the open source processor design tools in the ACM India Summer school on HPC and AI compute continuum held on IIT Palakkad on 29/06/2023
- Ms. Jilu George served as the Reviewer for the 4th International conference on Signal Processing and Communication(ICSPC '23) on 23rd and 24th March 2023 organized by Dept. of ECE, Karunya institute of technology and sciences, Coimbatore, Tamil Nadu, India, MAY-2023
- Ms. Jilu George received Recognition Certificate for the role as Mentor for the NPTEL online Certification course "Ethics in Engineering Practice" MAY-2023
- Dr. Anil Kumar M N served as the External Examiner of Ph.D Final Viva Voce (Visvesvaraya Technological University) at RV College of Engineering, Bangalore
- Ms. Pearlsy P V Presented the paper Malayalam handwritten character recognition using transfer learning and fine tuning of deep convolutional neural networks in ACCESS '23, IEEE international conference held at ASIET, Kalady
- Mr. Noble.G Published one patent (No. 202341012276A)
- Ms. Jilu George served as the reviewer for the 4th International Conference on signal Processing and Communication (ICSPC'23) on 23rd and 24th March organized by ECE, Karunya Institute of Technology and sciences, Coimbatore
- Ms. Christy Jose received NPTEL Mentor certificate for the course Ethics in Engineering Practice, NPTEL Mentor certificate for the course Body Language Key to Professional Success
- Mr. Noble .G received the second position in IDEATe competition conducted by the Kerala Startup Mission and Prajaahita foundation.
- Sreelekshmy S. served as the resource person for a technical talk on Hardware Modeling using Verilog conducted by the Department of Computer Applications, FISAT
- Noble .G received VLSID won 2023 fellowship to attend the conference.
- Sheelu Susan Mathews certified among the top 5% of the successful candidates for the NPTEL Course on CMOS Digital VLSI Design coordinated by IIT Madras during the period January - March 2023
- Mr. Noble G served as the resource person for the event "An Overview of IoT projects and use cases" organised by MCA department
- Ms. Aiswariya Raj served as the reviewer for the 4th International conference on Signal Processing and Communication(ICSPC '23) on 23rd and 24th March 2023 organized by Dept. of ECE, Karunya institute of technology and sciences, Coimbatore, Tamilnadu, India.
- Noble G served as the reviewer of the IEEE 19th India Council International Conference (INDICON), 2022
- Ms. Ambili A.R Secured Research Seed Money Grant for the project titled "CERTEDETECTORON v2.0" by APJ Abdul Kalam Technology University Grant
- Ambili A.R selected as one of the best 100 teams/individuals in "Kerala start-up Mission the Idea fest 2022 and an exclusive entry to the 5th edition of Fail Fast or Succeed Program (FFS).
- Manal Subair, Nima Mehrin, Muskan M.A and Nima Subair ((2019 ADMN) secured Research Seed Money Grant for the project titled "CERTEDETECTORON v2.0" by APJ Abhul Kalam Technology University Grant

Academic Results

Admission Year	Class & Semester	Number of students	Number of students passed	Results (percentage)	Program pass (for s8 only)

2019	S8 ECE	118	101	85.6	66.94
2019	S7 ECE	118	99	83.9	
2020	S5 ECE	111	70	63.06	
2021	S3 ECE	125	95	76.00	
2022	S1 ECE	128	98	76.56	
2020	S4 Mtech VLSI & ES	2	2	100	100
2022	S1 M.Tech VLSI & ES	1	1	100	

27. Department of Electrical and Electronics Engineering

There are 33 placement offers for the 2019 admission students. The process is going on for the 2020 admission students and there are two offers so far. There are a large number of students securing more than 8 SGPA in university examinations.

In the year 2023, the department achieved a successful admission of 62 students, a substantial increase compared to the previous years. This significant rise in admissions is a testament to the unwavering dedication and hard work of our departmental team. The 2019 admitted students secure 33 placement offers, reflecting their performance and industry demand for our graduates. The placement process for students admitted in 2020 is currently underway, with two offers extended thus far, indicating a promising start. A considerable number of students have achieved impressive SGPA scores exceeding 8 in university examinations as a testament to the the quality of the education provided by the department.

One of the faculty members of the department, Dr. Rabiya Rasheed completed her postdoctoral research at Kempton University in Germany. The department expanded collaborations by signing an MoU with NeST, adding to existing agreements with TELK and CADD Centre. We welcomed Mr. Reji John, Deputy General Manager at TELK, as an adjunct faculty member.

In academic governance, one faculty member joined the BoS-KTU, and two serve on the curriculum committee at KTU. The department successfully conducted its third KTU-sponsored Faculty Development Program.

Our faculty members contribute to research by reviewing international journals and conferences. One student represented IEEE Kerala in a program in Singapore. The department offered two ADD ON courses and published five international papers during this period.

The Department association ELECTRA has organised the following programs:

- Power Quiz- KSEB,
- Motivational talk, Ms. Lisabeth Maria George, alumni FISAT
- Magasin d'Honnette, the honesty shop.
- Technical stall - NAAC visit
- Nautilus - Workshop on Electric and hybrid vehicles, Computer Aided Designing competition.
- Illuminar-2k23,project expo
- Session on GATE EXAM by ONES coaching.

As part of Earth Hour, Energy Audit Cell, organised a webinar by Dr. M Krishnakumar, Station Engineer, Mavelikkara . The Field Visit to the 50kW Solar Power Plant and 11 kV/440V Substation was an intra-departmental event conducted by Energy Audit Cell.

The list of activities the department has undertaken is given below:

- Workshop on Opportunities after Engineering through GATE Examination by Mr. Anith T A, Mr. Satheesan U, Directors, One's Coaching on 15/09/2023
- Welcome to 2023 admission EEE Batch, Cultural Events (Meet the Department) Students and Group advisors, 2023 ad EEE on 12/09/2023
- Alumni Lecture series by Mr. Muhammed Safeer, Project Manager, CIAL on 12/09/2023

- Add on Course on Embedded controllers” NeST, Cyber campus, Kochi from 21/08/23 - 25/08/23 and 04/09/2023 to 09/09/2023
- Illuminar 2k23(Project Exhibition) on 26/05/2023
- Webinar on Energy Efficiency challenges in Trifurcated power sector by Dr. M Krishna Kumar, Station Engineer, KSEB on 24/03/2023
- Inauguration of “Magasin D'Honnêteté” The honesty shop, ELECTRA-for EEE Students on 06/03/2023
- Alumni Lecture series- "Motivational Talk: An Engineer's Perspective" by Lisabeth Maria George, PG Student, Technical University of Darmstadt, Germany on 03/02/2023
- Add on course: Certificate Course on Electrical CAD, Revit MEP by CADD centre from 13/02/2023 - 25-02-2023
- Third KTU Sponsored 3 day FDP on Hands on Training on design power Electronic Systems from 30/01/2023- 01/02/2023
- Inaugural Session Lecture series on Electrical Machinery and Power systems by Mr. Reji John, Deputy general Manager. TELK on 21/12/2022
- ELECTRONZ-Cultural events; 2022 admission S1EEE 2022 admission EEE students on 25/11/2022
- MoU with NEST - Mr. Raghunath MD SFO technologies, NeST on 28/11/2022
- Power Quiz in association with KSEB officers on 20/10/2022
- Anti drugs campaign, Mookkannoor Grama Panchayath by Students on 11/10/ 2022
- Add on Course on Embedded controllers by NeST from 10/10/2022 to 24/10/2022

Listed below are the achievements of students and staff members during the period

- Ms. Pooja P P S5 EEE won the First Prize, Quiz Competition; Engineers day by NSS FISAT on 15/09/2023
- Ms. Devapriya P S5 EEE won the First Prize, Quiz Competition; Engineers day by NSS FISAT on 15/09/2023
- Dr. Archana R Selected as Member of Board of studies, KTU 18/08/2023
- Dr. Rabiya Rasheed completed Postdoc for 6 months in the area of "recycling of batteries" at Kempten University of Applied Sciences, Germany July 2022 to January 2023
- Dr. Parvathy R served as reviewer, International conference on innovations in Engineering and Technology ICIET 2023
- Ms.Surya Natarajan Ms. Jyothi G K served as Coordinators of Third KTU Sponsored FDP during 30/01/2023-1/02/2023
- Dr. Parvathy R served as resource Person NDLI awareness program on 26/11/2022
- Dr. Surya Susan Alex served as reviewer, International conference on innovations in Engineering and Technology ICIET 2023
- Dr. Surya Susan Alex served as the Reviewer, International Conference on Smart Computing and Communication
- Dr. Archana R Examiner, Ph. D Comprehensive examination, RSET, Kakkanad 14/08/2023
- Dr. Parvathy R selected as reviewer of Asian Journal of Control (a Wiley Publishing Journal)
- Mr. Govind S Warriar S7 EEE - Selected for training program IEEE ISGT ASIA 2022 at Singapore
- Mr. Govind S Warriar S7 EEE - IEEE student committee PES R10 ASIA PACIFICI
- Dr. Surya Susan Alex, served as member in Syllabus Committee of KTU 2022
- Dr. Archana R served as Reviewer, ACCTHPA 2023, the sixth International Conference on "Advanced Computing and Communication Technologies for High Performance Applications

Publications

- Dr. Archana R, "The role of Women in Atma Nirbhar Bharat", International Conference on "Bharatiya Women : A true Perspective", 25, 26 November 2022, DOON University, Dehradun.
- Ms. Sreeja E A, "Islanding detection and Transfer of Distributed Generation system from Grid connected to Standalone mode", International Conference for Futuristic Technologies in Control system and Renewable technologies ICFCR-2022.
- Ms. Soumya Simon, "Switched Inductor Capacitor based DC-DC Boost Converter", International Conference on Sustainable Materials, Manufacturing and Renewable Technologies (i-SMaRT 2023).
- Ms. Rakhee R, "Mitigation of MPPT generated interharmonics in grid connected PV systems by modified P and O algorithm", IEEE International Power and Renewable Energy Conference IPRECON 2022.
- Dr. Parvathy R, "Battery Charging Systems", Journal of Applied Science, Engineering, Technology and Management.

Academic Results

Admission Year	Class & Semester	Number of students	Number of students passed	Results (percentage)	Program pass (for s8 only)
2019	S7 EEE	57	46	80.70	
2019	S8 EEE	57	32	56.1	31.58
2020	S4 EEE	35	14	40	
2020	S5 EEE	35	10	28.57	
2021	S3 EEE	62	30	48.38	
2021	S2 EEE	60	32	53.33	
2022	S1EEE	61	33	54.1	
2021	S4 M.Tech (PEPS)	3	3	100	100

28. Department of Electronics and Instrumentation Engineering

The Department of Electronics and Instrumentation had a highly successful year in terms of results and admissions. The University results for the 2019, 2020, and 2022 admissions were above 70%. The pass rate for the program improved from 40% (2022 batch) to 68% in the 2019-2023 batch. The close relationships between individual group advisors and students, as well as the tireless follow-up by faculty members, are believed to be one of the reasons for this success.

The intake capacity of the EIE B.Tech course was increased from 30 to 60 during this academic year. As of today, 59 seats have been filled, which is a resounding success. In addition to the meticulous efforts of the admission cell in individual personal counselling and follow-up, separate department brochures and videos were prepared, and online webinars and induction programs were conducted to support the admission process

Six students from the 2019-2023 batch, with the support of Ms. Lakshmi Nandakumar, were able to reach the finals of Xplore 2023, an international project competition held by Phoenix Contact, Germany. The students and mentors are scheduled to attend the finals in Germany on October 18, 2023, with the host company covering all travel and accommodation expenses.

Fifteen students out of a total of 31 students from the 2019-2023 batch received campus placements with 22 offers. The placement process is still ongoing, and a few more eligible students are expected to be placed.

The list of activities the department has undertaken is given below:

- Intra2k- Freshers program Ms. Raji P, Ms. Sheffy Thomas & Mr. Eldhose P Jacob on 22-11-2022
- Industrial Visit to Quatret Balloons, Kothamangalam on 23-11-2022
- Fire & Safety Awareness Program by Dr Anish Mathew & Ms. Shruthi Bhaskaran 24-11-2022
- Raspberry pi workshop was conducted for S5 EIE Ms. Sreevidya P on 26-11-2022
- Alumni Interaction Ms Reshma R -2020 passout & Mr Cyril Mathew-2021 passout 29-11-2022
- Six day study tour of S6 EIE students from 23-04-2023 to 27-04-2023
- Industrial Visit at Panduranga Coffee Works, Chikmagalur by S6 EIE students
- "Right Path"- webinar on scope and opportunities of EIE department by Dr. Abi P Mathew on 22-05-2023
- Invited talk on "Incubation Opportunities for Students and Faculty Mr. Jacob Thekkekkara, CEO and founder of Sugrah Mobility Pvt. Ltd. on 23-07-2023
- Farewell and IDEA Day (Awards to Final year students) on 23-07-2023
- Out of the Box- Online Induction Program (3 Hours) by Dr. Abi P Mathew, Ms Remitha Rajan & Mr. Aron Sabu 03-08-2023, 07-08-2023& 09-08-2023
- Industrial Visit for Faculty members - Janatics , Coimbatore on 10-08-2023
- AR and IOT one day workshop by ICPro Solutions ICPro Coimbatore on 18-08-2023
- Add On course - Robotics - for S5 students by Pacelab from 15-09-23 to 20-09-23
- Add On course -Robotics for beginners- for S3 students by Pacelab from 21-09-23 to 23-09-23
- Add on Course - Embedded System- for S7 students by Nest from 4-09-2023 to 16-09-2023
- Alumni talk for students by Jayasoorya J. S. (2017-21 batch) on 12-09-2023

Listed below are the achievements of students and staff members during the period

- Dr. Anil Johny PhD Awarded from Cochin University September 2023
- Department Memorandum of Understanding Signed with Nest Cyber Campus for training and internship support in embedded systems and power electronics for EIE Students 28-11-2022
- Ms Sreevidya P mentored 4 students for the NPTEL course Python for Data science (4 weeks) conducted by IITM. during November 2022
- Ms. Sruthi Bhaskaran mentored 2 students to get Elite certification for NPTEL course – Introduction to Industry 4.0 and IOT . She also mentored 3 students for the course – Artificial Intelligence. (12-week course) during November 2022
- Ms. Nikitha Binu (2022 admission) Member of college basketball team who were the runners up of D championship 2002-23 held at RSET , Kakkanad
- Ms. Lakshmi Nandakumar Ms. Lakshmi Nandakumar was the reviewer of 10th IEEE conference on Systems, Processes and Control (ICSP 2022) held at Malacca, Malaysia in December 2022
- Ms Sreevidya P served as a resource person for LabView workshop, EEE department on 05-01-2023
- Ms. Lakshmi Nandakumar awarded for the 9th time as Top Performing Mentor for NPTEL course Sensors and Actuators by IISc January -May 2023
- Ms Sreevidya P served as the Editor for the book series titled “ Futuristic Trends in Artificial Intelligence”, IIP Edited Book Series Manager Iterative International Publishers (IIP) during May 2023
- 1st prize - Mehenna Shaheer 2nd Prize Sebin Binu,3rd Prize - Devasoorya JS (S2 EIE) Winners of International Yoga day Quiz by NSS on 21-06-2023
- Annmary Benny (S2 EIE) 2nd prize for Book Review Competition by NDLI club, FISAT 19-06-2023
- Ms Sreevidya P served as the reviewer -ICIET 2023 (IEEE International Conference on Innovations in Engineering and Technology) held at Ilahia College of Engineering & Technology, Muvattupuzha, Kerala, India.
- Ajannya S, Smruthy S (2020-24 Batch , EIE) Award for the Best performance in NSS activities
- 2019-2023 Batch Aaron Sabu, Akash Shaji, Allen Simon Antony, Clinto Jose & Amala Joy & Ms Lakshmi N (Mentor) & Dr. Abi P Mathew(Mentor) selected as Finalist(1 among 25 final teams from all over world)- Xplore -International project competition organised by Pheonix contacts, Bloomberg, Germany September 2023
- Students of CSE and EIE under mentorship of Ms. Raji P and Ms. Honey Devassy delivered the social security app ‘COMPANION SOS’ to Kairali Nagar Residents Association in Thrissur. Event took place in the presence of Mr. Anthony Johnson, the founder vice chairman of FISAT

Publications

- Ms. Sreevidya P, “Elder emotion classification through multimodal fusion of intermediate layers and cross-modal transfer learning”, Signal Image and Video processing (ISSN: 1281–1288).
- Godson Thomas, Gokul Rejithkumar, P Sreevidya, Beenu Riju, “A Two-Way Integrated Communication System for the Deaf and Mute”, International Conference on Soft Computing and Pattern Recognition.
- Sundararajan S, “Synthesis and study of evolutionary optimised sensor linearisation with translinear & FPGA circuits”, International Journal of Electronics.
- Sundararajan S, “Implementation and Analysis of an Evolutionary Optimized Non-Linear Function for Linearization of Thermo-Resistive Sensors”, 6th International Conference on Devices, Circuits and Systems (ICDCS), Coimbatore, India, 2022.

- Anil Johny, "Edge Computing Based Miniature Maps Using Embedded Web server For Prediction of Malignancy", 6th International Conference on Devices, Circuits and Systems (ICDCS), Coimbatore, India, 2022.
- Anil Johny, "Miniature probability maps using resource limited embedded device for classification of histopathological images", International Conference on Innovative Trends in Information Technology (ICITIIT).
- Dr. Anish Mathew, "Flexible Solar Cells For Electric Vehicles", Journal of Applied Science, Engineering, Technology and Management
- Abi P Mathew, Sreehari, Viswajith P, Abdul Rahman, Vishnu Murali, "Crop Disease Detection using Machine Learning", Journal of Applied Science, Engineering, Technology and Management (FISAT).
- Lakshmi N, Alan Eldhose, Chandana Anil, George Thomas, Nived P Kumar, Pooja C P, "Smart Bin for Solid Waste Management in Cities", Journal of Applied Science, Engineering, Technology and Management (FISAT)

Academic Results

Admission Year	Class Semester &	Number of students	Number of students passed	Results (percentage)	Program pass (for s8 only)
2019	S8	31	27	87	68
2019	S7	31	31	100	
2019	S6	31	27	87	
2020	S5	17	12	71	
2020	S4	16	11	69	
2021	S3	29	14	48	
2021	S2	27	15	56	
2022	S1	31	23	74	

29. Department of Mechanical Engineering

The department has demonstrated remarkable achievements in various domains. Notably, the program pass rate saw a substantial increase, reaching nearly 70%, which is a significant 10% improvement compared to previous results. This reflects the department's commitment to academic excellence and student success. The department's international outreach efforts were highly successful, as it hosted an international conference with the participation of foreign delegates on campus. This not only showcased the FISAT's global presence but also promoted knowledge exchange on a global scale.

Furthermore, the department's commitment to fostering global partnerships was evident in the signing of a Memorandum of Understanding (MoU) with a prestigious foreign university and FISAT. This collaboration is expected to bring forth exciting opportunities for research, student exchange, and academic growth. The ASME chapter within the department stood out by achieving the prestigious Best Student Chapter Award. This recognition highlights the dedication and enthusiasm of the students and faculty involved in ASME activities. Additionally, students from the department made their mark on a national level by winning competitions, showcasing their skills and knowledge.

The ASME scholarship program reached an all-time high, with a total amount of 12 lakhs. This financial support is invaluable for students pursuing their academic and career goals within the field of mechanical engineering. The SAE and ISHRAE chapters also delivered commendable performances, contributing to the overall growth and success of the department. The department achieved a significant milestone by admitting over 120 students in the year 2023. This indicates a strong demand for the department's programs and reflects its positive reputation among prospective students.

In summary, the department's achievements encompass improved academic performance, international recognition, successful collaborations, student excellence, financial support, and significant admissions growth. These accomplishments reflect the department's dedication to excellence and its commitment to providing a high-quality education to its students.

The list of activities the department has undertaken is given below:

- iSMaRT - 2023, International Conference on Sustainable Materials Manufacturing and Renewable Technology from 24th to 26th May 2023. The keynote speakers include:
 - Dr. N V David, Universiti Teknologi MARA, Malaysia.
 - Ms. Zuzana Gombosova, Malai biomaterials design Pvt. Ltd., Slovakia.
 - Dr. Peerawatt Nunthavarawon, King Mongkut's University of Technology North Bangkok, Thailand.
 - Dr. S. Kanmani Subb, Indian Institute of Technology Palakkad, India.
 - Dr. Abhishek Agarwal, Vermont State University, United States of America.
 - Dr. Basil Kuriachen, National Institute of Technology Calicut, India.
- KTU Sponsored 5 day offline FDP on "Emerging Trends in Additive Manufacturing Technology".
 - Dr. S. Kanmani Subb, Indian Institute of Technology Palakkad, India
 - Dr. S Jerome, NIT Trichy,
 - Mr. Vinod A R, Central Manufacturing Technology Institute, Bangalore
 - Dr. Biju N, CUSAT Dr. Rajesh Ranganathan, Coimbatore Institute of Technology,
 - Dr. A Sumesh, Amrita Vishwa Vidyapeedam, Coimbatore 30th January to 3rd February 2023

- Signed MoU between FISAT and UiTM, Malaysia Dr. N V David, Universiti Teknologi MARA, Malaysia on 24th May, 2023
- Conducted Value Added Courses on ANSYS Fluent AUTODESK Fusion 360 Mr. Harish T Aboobacker BimLabs Technologies from 16/10/22 to 22/10/22 & 11/09/23 to 15/09/23 17/11/22 to 19/11/22 & 11/09/23 to 15/09/23
- Conducted Erudite Lecture Series - Seventh in Series of Annual Guest Lectures. Topic: Oscillatory flow features and heat transfer in jet impingement cooling by Dr Ramesh Narayanaswamy, Deputy Head, Mechanical Engg, Curtin University, Australia on 05/12/2022
- SAEISS STUDENT CONVENTION Cochin Division - Tier 2 events! Hosted by SAE FISAT.. Officials from SAE Cochin Division on 18/04/23
- Pre Conference workshop - iSMaRT 23 -on Research Publication and Proposal Writing Dr. N V David, Universiti Teknologi MARA, Malaysia. Dr. Peerawatt Nunthavarawon, King Mongkut's University of Technology North Bangkok, Thailand on 23/05/2023
- Industrial visit by Faculty members of ME and EIE dept to Janatics Automation Ltd., Coimbatore on 10/08/2023

Listed below are the achievements of students and staff members during the period

- Amal Shammy, Haneena K H, John Joy, Joel Issac, Eldho Elias under the guidance of Mr. Nithin H FISAT Racing Crew (FRC) of SAE FISAT CHAPTER Department of Mechanical engineering won 3rd prize and received a cash prize of Rs 7500 for the Endurance race at the Electric Two Wheeler Design Competition National event conducted by SAE southern section held in SRM University, Chennai from 17-18 Oct 2022
- Mr. Nithin H, Asst. professor Received best faculty award at Electric Two Wheeler Design Competition National event conducted by SAE southern section held in SRM University, Chennai during 17-18 Oct 2022.
- Dr Rejeesh C R and Mr. Tom Anto Application of Patent Published in the official journal of the patent office on 27/10/2022
- Amal Shammy, John K Joy, Eldho Alias, Haneena K H, Joel Issac Joby, Rahul P B, Varun S, Sourav Nandakumar, Arfan Ahamed, Akhil Thomas. Faculty Advisor:Nithin H FISAT Racing Crew (FRC) of SAE FISAT CHAPTER Department of Mechanical engineering has won 1st prize and received a cash prize of Rs 15,000 for HEPHAESTUS-2022 (Inter college Exhibition Competition) hosted by UC, College, Aluva as a part of the Centennial Vista 2022 during 7-12 November 2022
- Amal Shammy, John K Joy, Eldho Alias, Haneena K H, Joel Issac Joby, Rahul P B, Varun S, Sourav Nandakumar, Arfan Ahamed, Akhil Thomas. Faculty Advisor:Nithin H FISAT Racing Crew (FRC) of SAE FISAT Chapter of Mechanical engineering has won 2nd prize and received a cash prize of Rs 5000 for PEGASUS-2022 (Inter college Exhibition Competition) hosted by Muthoot Institute Of Technology And Science 18th November 2022
- Akshay Govind P T, Ajay Krishna V S, Amal Krishnan, Aparana S, Aksa maria paul ASME Team won the Third prize for IAM3D design presentation challenge at Efx AM3D Aero held at M S Ramaiah Institute of Technology, Bangalore on 08/12/2022
- Amal Shammy, John K Joy and Mohammed Yaseen under the guidance of Renjith R ISHRAE chapter has won Student Research Project Grant of Rs.50000/- through a national event on 04/01/2023
- KTU - RSM fund for the proposal by Dr. Harish T M is approved. Sanctioned amount is Rs.1, 20,000/- 01/03/2023
- ASME Team Team Cordis under ASME FISAT secured 3rd prize (National level)and a cash prize of \$150 in ASME Efx 2023 conducted at PES University, Bangalore becoming 1st position in state

- Ajay Krishna V S & Mr. Ajay Krishna V S of S8 MEA won the Marketing Challenge Award in ASME EFX 2023 conducted at PES University, Bangalore 31/03/2023
- Amal Krishnan and Aksa Maria Paul of S8 ME A Amal Krishnan and Aksa Maria Paul of S8 ME A are selected to receive an honorarium of \$500 each for their contribution to ASME by leading the activities in our institution on 25/05/23
- Rhythin Varghese, Rima Varghese, Abhijith Murali, Anjalay Anil, Adarsh S Kumar 5 students of 2020 admission selected for ASME International Scholarships of worth Rs.12 Lakhs 06/06/23
- ASME FISAT selected as the international student section for recruiting most new members in student section membership drive, winning a cash prize of 250\$ 30

Student Achievements

- Dominic D Varakukala Best outgoing student - 2019 admission ME
- Varun S Outstanding Performer - 2019 Admission ME
- Issac James Issac James of S6 ME B has been selected for in Internship with monthly stipend of Rs.1000/- at IIT Dharwad
- Mr. Arun J Kulangara, AP, Mechanical Engineering is selected as Jury Panel Member for the 3D Graphy Engineering & Medical (3D GEM) 2023 - Poster Presentation Awards 2023 for the Engineering & Industrial Manufacturing Category. The 3rd edition of 3D GEM 2023 – Conference, Exhibition, Poster Presentation & Awards is jointly organised by IIT BOMBAY & 3D GRAPHY on 9th & 10th December at IIT BOMBAY.
- Isaac James – S7 ME B won the Ambu Sivadas Award – 2020 Admission
- Gautham Krishna H – S5 ME A won the Ambu Sivadas Award – 2021 Admission

Publications

- Mr. Anoop Sankar, Asst. Professor, “Comparative Study on Hot Corrosion Behaviour of Selective Laser Melted Ti-6Al-4V Alloy Lasers in Engineering”, Old City Publishing (ISSN: 0898-1507) - Journal - (SCI).
- Mr. Ranjit Joy, ANN modelling of additively manufactured carbon fiber integrated ABS Materials Today: Proceedings - Scopus.
- Mr. Srijith Rajeev, “Artificial intelligence-based image recognition system”, Materials Today: Proceedings - Scopus.
- Dr. Harish T M, “Development of aluminum 5083/B4C/carbonized coconut shell ash hybrid composite using friction stir processing”, Materials Today: Proceedings - Scopus.
- Dr. Harish T M, “Mechanical and microstructural characterization of aluminum metal matrix composite reinforced with bottom ash and fireclay”, Materials Today: Proceedings - Scopus.
- Dr. Rejeesh C R, “Packaging of milk and dairy products: Approaches to sustainable packaging”, Materials Today: Proceedings - Scopus.

Activities of clubs in the department:

- Aaravam - Initiation Day Celebration of 2022 admission B.Tech batch on 25/11/22
- ASME student chapter of FISAT conducted an Induction program for students of SCT College of Engineering Thiruvananthapuram on 24/11/22
- Industrial Visit to Super Fab Lab Kerala (Kochi) situated at Kinfra Hi-tech Park , Kalamassery, Kochi by faculty members on 01/02/2023
- SAE - Workshop on CATIA on 11/02/2023
- EVO 2.0 Automotive Quiz by SAE on 17/02/2023
- TECH.JPG - Technical Photography Contest by ASME on 22/02/2023

- Industrial Visit to He-Man Auto Robo Park on 07/03/2023
- Online Induction Program for Students of St:Joseph College of Engineering, Pala by ASME FISAT Chapter on 16/03/2023
- INVENZA 2023 - SAE TIER 1 Competitions from 27/03/23 to 31/03/23
- TechTalk on Electric Vehicle Prototyping by Mr A Armstrong, Principal Member, R&D TAFE Tractors and Form Equipment Ltd, Chennai on 31/03/23
- Auto Quiz Conducted by ASME, FISAT on 25/04/23
- Workshop on 3-D Printing as a part of TechFest Nautilus 2023 on 29/04/23
- Conducted three events as a part of Nautilus 2023 1. RoboWar 2. Robo Soccer 3. PitStop
- Farewell to outgoing students by ASME - Launching of new website www.asmefisat.com on 14/06/23
- Au Revoir - Farewell to 2019 Admission batch on 16/06/23
- ASME - FISAT Election on 25/06/23
- FISAT team participated for SAE Autonomous Drone Development Competition (ADDC) 2023 scheduled on 25th and 26th of August 2023 at KCG college of Technology, Chennai 26/08/23

Academic Results

Admission Year	Class Semester &	Number of students	Number of students passed	Results (%)	Program pass (for s8 only)
2019	S8 ME	118	105	88.98	68.64
2019	S7 ME	118	91	77.11	
2019	S6 ME	118	49	41.52	
2020	S5 ME	87	61	70.11	
2020	S4 ME	87	31	35.63	
2021	S2 ME	96	30	31.25	
2021	S3 ME	105	28	26.67	
2022	S1 ME	108	66	61.11	

30. Department of Science and Humanities

The Department of Science and Humanities conducted one international conference (ICRTAM) from 23/2/2023 to 25/2/2023. Totally there were 8 speakers both international and national. More than 70 participants participated in the conference. This conference is funded by DST with an amount of Rs.110000. The Department also conducted two international and national webinars during this period. These webinars are mainly meant for students. MATHS CLUB FISAT, conducted Inter Departmental Mathematics quiz for Shri. P.V. Mathew memorial ever rolling trophy. An expert talk was conducted for first year Mechanical students on the topic A Symphony on Calculus.

MAJOR ACTIVITIES

- Coalescence On Nano Technology with Everyday Life. (Two Day National Webinar) Dr. Ann Rose Abraham, Asst. Professor, Dept. Of Physics, SH College Thevara Dr. Abhitha K, Asst. Professor, Dept. Of Polymer Science And Rubber Technology, CUSAT from 26/10/2022 to 27/10/2022
- National Webinar on Engg. Ethics and Organisational Behaviour by Dr. Dilip Barad, HoD, English, MK Bhavnagar University, Gujarat on 19/11/2022
- International Conference on the Recent Trends In Application Of Mathematics (ICRTAM-2023) from 23/02/2023 -25/02/2023. Keynote lectures by:
 - Prof. M. Thamban Nair, Professor, BITS Pilani Goa
 - Prof. S. Arumugam, Adjunct Professor, Ramco Institute Of Technology, Rajapalayam.
 - Prof. A. Vijayakumar, Emeritus Professor, CUSAT
 - Prof. Sasi Gopalan, Professor and Head, CUSAT, Kochi
 - Prof. Miguel Pizana, Professor, Metropolitan Autonomous UTY, Mexico
 - Dr. Aparna Lakshmanan S, Associate Professor, CUSAT, Kochi
 - Dr. Surya Prasath, Asst. Professor, University of Cincinnati, Ohio
 - Dr. Jill K. Mathew, Asst. Professor, Mar Ivanios College TVM.
- International webinar on Climate change and its impact over Kerala Dr. Jayasankar C.B, Research Associate, Florida State University, USA on 28/2/2023
- Inter-Departmental Mathematics Quiz competition for P.V Mathew memorial ever rolling trophy on 28/3/2023
- International webinar on Upskilling for digital Economy by Dr. Razeena Rasheed, Asst. Professor, Faculty of Business Studies Arab open University Oman on 24/08/2023
- Expert talk on Engineering Mathematics Dr. Thoms Joseph. Rtd. Prof. Bharata Mata College 13/09/2023

The list of achievements of faculty members of the department are::

- Ms. Nyci Ignatious acquired MBA from IGNOU University
- Ms. Nisha P M qualified for GATE 2023

31. Department of Computer Applications [MCA]

Instituted in the year 2006, the Department of Computer Applications in FISAT is offering a two-year Master's Programme in Computer Applications (MCA) with an annual intake of 120. The department aims to achieve academic excellence by focusing on the key activities like providing quality education to students, enhancing their learning skills and giving them training to acquire the professional skills required for their career with an objective of making them socially committed professionals.

Getting full admissions to the MCA Programme proves that the MCA programme offered by FISAT is one of the most sought-after programmes selected by students to turn themselves into top class computer professionals. Regarding the academic performance, our students bagged top spots in the university examinations. The recent result, the result of 2022 S1 batches is 97%. The topper of the batch secured 9.55 CGPA, and 4 of our students bagged top positions in the first semester university examination. The placement cell of the department organised 200+ hours of training for each student to develop their aptitude, technical & soft skills. Good number of students from the department are getting hired in MNCs like IBM, TCS, UST, CTS, SOTI and in Federal Bank. The 2021 pass out batch grabbed 108 offers for 119 students with the highest pay package of 14 lakhs per annum. A team of qualified and committed faculty with ample experience is the highlight of the department. Many of our faculty members have published ground-breaking articles in prestigious indexed journals and also our students have presented and published their articles in International Conferences. The department constantly strives to improve the knowledge and skill sets of the students by organising many value-added programmes like conferences, workshops, expert talks, project exhibitions, personality development courses etc. This report highlights the activities/achievements organised by the department during the above stipulated period.

The list of activities the department has undertaken is given below:

- ICACA2023 - International Conference on Advancements in Computer Applications by Dr. Mini Ulanat (Chair, IEEE Kerala Section) Mr. Jayan Brahmanandan (Director Cloud Engg, Hitachi, Texas), Mr. Jacob Thomas, Delivery Manager, TCS, from 22-05-2023 to 23-05-2023.
- 6 Day National Level Faculty Development Programme in association with TCS, Kochi by Mr. Anil Pai (Partner and Lead, Digital Transformation Services, TCS), Mr. Arlin Varghese (Data & Analytics Portfolio Delivery Lead – Digital Transformation Services Unit, TCS), Mr. Jacob Thomas (Delivery Manager, TCS Interactive), Mr. Rajeev Mullankara Azhuvath (Enterprise Architect, TCS), Ms. Sona Mary Louis, Asst. Professor, Dept of Computer Applications, FISAT, from 25-09-2023 to 30-09-2023.
- Induction Programme of 2022 Batch inaugurated by Mr. Nikhil Paul, CIO, 6D Technologies, on 11-10-2022.
- Hands on Workshop on Cloud Computing for 2021 Batch Students by Ms. Athira Akhil, Administrator, Techacs IT Group Pvt. Ltd. on 25-10-2022.
- Ideation Workshop in associate with IEDC Cell, FISAT for 2022 Batch Students by Mr. Robin K Thomas (CEO & CO- Founder), Mr. Vishnu Shankar (Strategic Partnerships) of ASTREK Innovations on 16-11-2022.
- Expert Talk on All Roads lead to Cloud for 2022 Batch Students by Mr. Mathew James, Sr. Solution Architect, UST Kochi on 11-01-2023.
- Expert Talk on Hardware Modeling using Verilog for 2022 Batch by Ms. Sreelekshmi S, Asst.Prof, Dept. of ECE, FISAT on 18-01-2023.
- Technical Talk on Configuring Arduino for 2022 Batch Students by Mr. Pankaj Kumar G, Asst.Prof, Dept. of CSE, FISAT on 19-01-2023.

- Professional Training Programme on Self-Assessment Report (SAR) - Evaluation Dr. Ganesh P (Head, MCA), Dr. Aparna K, (Asso. Professor, MCA), BMS Institute of Technology & Management, Bangalore on 20-01-2023.
- EIT Activity - Meet the Entrepreneur for 2022 Batch by Mr. Cyril Mathew, Director, Sara's Techo on 20-01-2023.
- Expert Talk on Advancements in Python for 2021 Batch Students by Mr. Ebin E, Software Engineer, i-Net Infotech, Kochi on 23-01-2023.
- Two-day Hands-on Workshop on Deep Learning Algorithms and Use cases for 2021 Batch by Dr. Shailesh S, Asst. Prof, DCA, CUSAT, from 08-02-2023 to 09-02-2023.
- Hands-on training on Blockchain Implementation for 2021 Batch by Mr. Toby Jose, Project Lead, Progressive Cybernetics Pvt. Ltd, Muvattupuzha on 13-02-2023.
- Training Programme on Nurturing Life Skills for 2022 Batch by Mr. Sanju P Cherian, Certified Trainer on 20-03-2023.
- Training Programme on Instil Professionalism for 2022 Batch by Mr. Sanju P Cherian, Certified Trainer on 21-03-2023.
- Induction Ceremony of MCA 2023 Batch by Mr. Thomas Kuruvilla, Managing Partner, Arthur D. Little, Mr. Vishnu Narayan B, Region Head, Talent Development, TCS on 10-08-2023.
- Expert Talk on Value of IEEE Xplore & EBSCO ebooks in Research & Career Development in association with NDLI Cell, FISAT for 2023 Batch Students by Mr. Nandalal T S, EBSCO Information Services, New Delhi on 17-08-2023.
- Workshop on PC Hardware Assembling for 2023 Batch Students Mr. Jithesh V Nair (Manager, Network Administration) & Mr. Deepak V Pillai (Technical Assistant (Hardware and Network Maintenance)) on 17-08-2023 and 05-09-2023.
- Orientation Programme for 2023 A Batch Students Mr. Sanju P Cherian, Certified Trainer from 11-09-2023 to 12-09-2023.
- Professional talk on A Healthy Daily Routine for 2023 Batch by Ms. Remitha Rajan, Student Counsellor, FISAT on 11-09-2023 and 15-09-2023.
- Technical Talk on Multicore Programming Essentials for 2023 Batch Mr. Mahesh C, Assistant Professor, Dept. of CSE, FISAT on 12-09-2023 and 14-09-2023.
- EIT Session on Stepping Stone to Entrepreneurship for 2023 Batch Mr. Praveen V, Assistant Professor-Senior Grade, FBS on 12-09-2023 and 15-09-2023.
- Orientation Programme for 2023 B Batch Students Mr. Sanju P Cherian, Certified Trainer from 14-09-2023 to 15-09-2023.
- Domain Expert Workshop on Big Data Analytics to 2022 Batch Mr. Suneesh S Sharma, Softloom IT Solutions, Kochi on 18-09-2023.
- Expert Talk on An Overview of IoT Projects and use cases to 2022 IOT Batch Students Mr. Noble G, Asst. Prof, Dept. of ECE, FISAT on 21-09-2023.

Department Placement Cell Activities

- Industry Expert Interaction by Mr. Nikhil Paul, CIO, 6D Technologies on 11-10-2022
- Orientation Programme by Pragmatics Team on 12-10-2022 and 13-10-2022
- Industry Visit (2021 Batch) to UST, Kochi on 01-11-2022
- Placement training specific for Federal Bank Recruitment (2021 A & B Batch) by Pragmatics Team on 30-11-2022, 01-12-2022 and 02-12-2022
- Orientation - Fuel your Self Development (2021 Batch) by Pragmatics Team on 06-03-2023, and 07-03-2023
- Aptitude Training (2021 A & B Batch) by Pragmatics Team during 01-04-2023, 24-04-2023 to 27-04-2023
- Soft Skill Training (2021 A & B Batch) by Vertical Eye during 19-06-2023 to 27-06-2023

- Industry Readiness Training - Talk on "Kick Start to Placements 2023 " by Mr. Bejoy Varghese, Placement Officer, FISAT on 03-07-2023
- Aptitude Training 2021 batches by Pragmatics Team during 23-08-2023, 24-08-2023
- Introductory Talk on Campus Placement and career prospects by Dr. Santhosh Kottam, Asst. Prof (Sr.Gr), FISAT on 12-09-2023

FIESTA (Students Association) Activities

- Feliz Natal 2k22 on 23-12-2022
- TechnoScrap on 20-01-2023
- Intercollegiate Workshop on AR & Metaverse on 28-04-2023
- Scientia 2K23 – Paper Presentation Contest on 09-05-2023
- Project Evo 2K23 – Project Exhibition S4 MCA 2021 Batch on 02-06-2023
- Quiz Competition - Environment Day on 05-06-2023
- Ormacheppu 2k23 - Farewell Programme to 2021 Batches on 12-06-2023

Rewind (Department Alumni Association) Activities

- Two-Day Domain Expert Workshop on Django Framework by Mr. Rohith Joshy, Senior Software Engineer, Qburst (Alumni 2015 Batch) on 31-10-2022, 01-11-2022
- Hands-on Training on IoT Mr. Britto Paulose (Alumni 2020 Batch) on 01-11-2022
- My Stories – Sharing Session on “Be an Entrepreneur” Mr. Saneesh C.K, Alumni 2008 Batch, (CEO, Edumithra Foundation, Kochi) on 17-09-2022
- My Stories– Talk on “Fine tune Yourself to Federal Bank” Mr. Amal Devassia (Federal Bank, Alumni 2019 Batch), Ms. Liya John (Federal Bank, Alumni 2020 Batch) on 27-11-2022
- My Stories–Talk on "Key to Crack Campus Placements" Ms. Preetha Thomas, QA Lead, EY Kochi, (Alumni 2011 batch) on 15-07-2023
- Alumni Meet 2023 All batches on 01-05-2023

Other Activities

- Release of Technical Magazine Volume 2 on 17-11-2022
- Social Outreach Programme - Peace Mission Centre, Angamaly (2022 A Batch) & Old age home at Edakkunnu (2022 B Batch) on 22-12-2022
- Release of Pixel Newsletter Vol 5 (2021-2022) on 13-01-2023
- Release of Pixel Newsletter Vol 6 (2022-2023) 31-07-2023
- Extension Activity – TechShare Session – Awareness cum Exhibition on Internet of Things (IoT) to students of St. Joseph's G H S, Karukutty on 07-09-2023

Listed below are the achievements of students and staff members during the period

- Dr. Deepa Mary Mathews
 - Reviewer for the 3rd International Conference on IOT, Big Data and Security, Canada Oct 2022
 - Reviewer, Session Chair Int. Conf. on Advanced Computing and Communication Technologies for High Performance Applications 21-01-2023
 - Reviewer BOHR International Journal of Material Sciences and Engineering Mar 2023
 - Reviewer ACR 23 USA May 2023
 - General Chair, Reviewer, Editor ICACA2023 - International Conference May 2023
- Dr. Santhosh Kottam

- Pass Board member KTU 5th & 4th Sem Regular (S) MCA Degree Exam May 2022 Oct 2022
- Pass Board member 2nd Sem MCA 2nd Year Direct (S) Degree Exam, July 2022 Oct 2022
- Pass Board member 2nd Sem MCA Degree Exam, July 2022 Dec 2022
- Advisory Board Member Dept of MCA, St. Kuriakose College of Management & Science, Ernakulam 10-01-2023
- Session Chair Int. Conf. on Advanced Computing and Communication Technologies for High Performance Applications 21-01-2023
- Reviewer Int. Conference on Innovations in Engineering and Technology, ILAHIA Mar 2023
- Reviewer, Editor of Proc. ICACA2023 - International Conference May 2023
- Ms. Senu Abi
 - Reviewer ICACA2023 - International Conference May 2023
 - Resource Person Expert Talk on Story your Requirement for S2 MCA 2022 batches. 24-01-2023
- Dr. Shahna K U
 - Approved Research KTU Research Supervisor 18-09-2023
 - Reviewer PeerJ Computer Science Journal Oct 2022
 - Reviewer Bulletin of Electrical Engineering and Informatics 09-11-2022
 - Session Chair Int. Conf. on Advanced Computing and Communication Technologies for High Performance Applications 21-01-2023
 - Reviewer Journal of Supercomputing, Springer 14-02-2023
 - Reviewer, Editor of Proc. ICACA2023 - International Conference May 2023
 - Reviewer IEEE Transactions on Multimedia Sep 2023
- Dr. Sujesh P Lal
 - Reviewer Review of Research article: IEEE Communications Standards Magazine 24-10-2022 April 2023
 - Reviewer Journal of Super Computing, Springer 12-7-2022
 - Reviewer, Editor of Proc. ICACA2023 - International Conference May 2023
- Dr. Shidha M V
 - Session Chair Int. Conf. on Advanced Computing and Communication Technologies for High Performance Applications 21-01-2023
 - Session Chair Paper Presentation Contest- EXEMPLAR23 by MES College 21-02-2023
 - Reviewer, Session Chair ICACA2023 - International Conference May 2023
- Ms. Manju Joy
 - Reviewer ICACA2023 - International Conference May 2023
- Ms. Rose Mary Mathew
 - Mentor Certificate NPTEL Dec 2022
 - Reviewer ICACA2023 - International Conference May 2023
 - Reviewer Engineering, Technology and Applied Science Research Journal Aug 2023
- Ms. Joice T
 - NPTEL Deep Learning Jan-Apr 23
- Dr. Rakhi Venugopal
 - Reviewer, Chair ICACA2023 – Int. Conference May 2023
 - Session Chair Int. Conf. on Advanced Computing and Communication Technologies for High Performance Applications 21-01-2023
- Ms. Anju L

- Best Paper Award For the article “An Analysis of Factors Influencing Customer’s Online Shopping Behavior” in Int. Conference on Recent Trends in Computing, Communication and Information Technology, ICRCCI 2022 Aug 2022

Student Achievements

- Dennis Mathew, 2020A, Lise Joseph Nellisery 2020B - Best Academic Performance Award 2020-22 22-08-2022
- Dennis Mathew, 2020A, Kiran Karthikeyan, 2020B - Best Project Award 2020-22 22-08-2022
- Aneena Anto, 2020A Liya V John, 2020B Best Paper Presentation Award Winner Scientia2k22 22-08-2022
- Juned Ansar P, 2020B - Best Leadership Award 2020-22 22-08-2022
- Midhun Madhav, Unnimaya P U, Sruthy E (2020B) - Internship at Software Cell, FISAT 19-09-2022
- Amal Devassia, 2019B - Vishnu Venumohan Memorial Endowment Award 27-09-2022
- Bindhu Joy, 2021A - Best Library User Award 27-09-2022
- Sreelakshmi Raveendran, Sariga Satheesh 2021B - II Runner Up in KTU D-Zone & Inter-Zone Badminton Tournament 2022 05-11-2022
- Aswin Binu, 2022A Winners of South India Intercollegiate Basketball Tournament-2023 conducted at NIT, Calicut 12-03-2023
- Taniya Ignatius, 2022B - Third Prize for the Speech Competition on ‘Earth Hour’ Day organized by NCC, FISAT 25-03-2023
- Nithin Das, 2022B - Best Player of South India intercollegiate volleyball tournament held at NIT Calicut 12-03-2023
- Nithin Das, 2022B Winners of Volleyball tournament held at College of Engineering Kidangoor. 11/04/2023
- Aswin Binu, 2022A - Muthoot All Kerala Intercollegiate Basketball tournament held at MITS. 27-04-2023
- Amalraj Joseph, 2021A, Lakshmi N Kumar, 2021B - Best Project Award Project Evo-2k23 02-06-2023
- Smrithi Jaison, 2021B Emmanuel Jose, 2021A Farzeena P A, 2021B - Best Paper Presentation Award Winner Scientia2k23 09-05-2023
- Amal Raj Joseph, 2021A Sreelakshmi K K, 2021B - Best Academic Performance Award 2021-23 12-05-2023
- Amalraj Joseph, 2021A, Chanchal K S, 2021A, Sreelakshmi K K, 2021A, Rosemary 2021A - PTA Perseverance Award 21-05-2023
- MCA 2022 & 2023 Olam Up2k23 - First prize for Onappookkalam Competition conducted by FISAT college union. 26-08-2023
- Leaya Joseph, 2022B won the P V Mathew Memorial Award 26-09-2023
- Krishna Dev, 2021B - Vishnu Venumohan Memorial Endowment Award 26-09-2023

Publications

- Dr. Deepa Mary Mathews, “Optimization of Spatio Temporal Aggregate Queries using Semantic Load shedding and Shared Cluster Based Execution”, International Journal of Engineering Trends and Technology.
- Dr. Shahna K U, “Novel chaos-based cryptosystem using four-dimensional hyper chaotic map with efficient permutation and substitution techniques”, International Journal, Chaos, Solitons & Fractals.

- Dr. Sujesh P Lal, “Deep learning driven physical layer security for a simultaneously wireless information and power transfer network”, International Journal, Alexandria Engineering Journal.
- Ms. Rose Mary Mathew, “An Oversampling Mechanism for Multi majority Datasets using SMOTE and Darwinian Particle Swarm Optimization”, International Journal on Recent and Innovation Trends in Computing and Communication.
- Dr. Sujesh P Lal, “Detailed Study on Electronic Data Energy Consumption Monitoring System Based on the Construction of Internet of Things”, International Journal, Recent Advances in Electrical & Electronic Engineering.
- Ms. Anju L, “Machine Learning Approaches for Customer Segmentation”, International Journal, Karpagam JCS.
- Dr. Sujesh P Lal, “Machine Learning Approaches for Predicting Protein Structure and Functions”, International Journal, European Chemical Bulletin.
- Ms. Anju L, “Identification of Pre-Transaction Phase Components That Influence Customer's Online Shopping Behaviour”, International Journal, The Seybold Report Journal (TSRJ).
- Ms. Rose Mary Mathew, “A Cluster-based Under Sampling Technique for Multiclass Skewed Datasets”, International Journal, Engineering, Technology & Applied Science Research.
- Ms. Neenumol Sani, Dr. Deepa Mary Mathews, “Smart Waste Collection Monitoring and Alert System Via IOT”, International Journal, Journal of Education : Rabindra Bharati University.
- Dr. Sujesh P Lal, “Wide Range Data Transmission In Deep Water Sensor Network With Waves Via Wireless”, 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE).
- Ms. Manju Joy, “A Review of Epidemic Surveillance Systems for Infectious Diseases”, International Conference on Computing, Communication, Security and Intelligent Systems (IC3SIS).
- Ms.Senu Abi, “An Efficient Text Detection and Recognition Framework for Natural Scene Images”, International Conference in Computer Networks and Inventive Communication Technologies: Fifth ICCNCT 2022, Springer Nature.
- Ms. Rose Mary Mathew, “Analyzing the Impact of Ensemble Techniques and Resampling Techniques Over Multi Class Skewed Datasets”, International Conference, Advances in Intelligent Systems and Technologies.
- Ms. Rose Mary Mathew, “A Study on The Effectiveness Of Cluster Based Resampling Technique Over The Glass Classification Model”, 3rd International Conference on Mathematical Modeling & Computational Science.
- Ms. Rose Mary Mathew, “A Review on Explainable Artificial Intelligence, its Perspectives, and Challenges”, National Conference on Recent Trends and Advances in the Field of Information Technology.
- Mr. Aravind A, Dr. Deepa Mary Mathews, “Stable Diffusion for Unity Game Engine”, International Conference on Advancements in Computer Applications.
- Mr. Emmanuel Jose, Dr. Deepa Mary Mathews,” Smart Greenhouse”, International Conference on Advancements in Computer Applications.
- Mr. Anantha Krishnan H, Dr. Sujesh P Lal, “Wide Range Data Transmission In Deep Water Sensor Network With Waves Via Wireless”, International Conference on Advancements in Computer Applications.
- Ms. Deepa P D, Ms.Senu Abi,” Virtual Mouse movement, volume and brightness control using hand gestures”, International Conference on Advancements in Computer Applications.

Books Published

- Dr. Sujesh P Lal, "IoT and its Applications" May 2023
- Mr. Krishna Kamal, 2022 B Batch "Yearnings of a troubled Dream" – Book of 21 poems 01-03-2023

Patents Granted

- Dr. Sujesh P Lal - Patent Granted for a Design Patent with the Title: IOT based Trash Bin with Touch Free Lid", May 2023

Academic Results

Admission Year	Class & Semester	Number of students	Number of students passed	Results (percentage)	Program Pass
2022	S1	121	117	96.69%	
2021	S4	119	119	100 %	88.23%
2021	S3	119	108	91%	
2021	S2	119	112	94.12%	

32. FISAT Business School [FBS]

Started in 2006, FBS was first affiliated to MG University and had an approved seat strength of 60. As the institute grew in reputation, in four years we were able to apply and get approval for an additional 60 more seats making the total intake 120 by the year 2011. Within a very short duration of time, FBS has been able to establish itself as one of the most preferred B-Schools in Kerala. The demand for MBA from FBS is such that all the seats are filled with good quality students every year without much promotional efforts. Batch 2023-25 students were inducted on Aug 10, 2023 with all 120 seats filled.

As can be seen most of the University Semester Results barring one are above 94% showing the meticulous pedagogy followed and capability of the faculty. The Program pass also is above the ordinary at 88% and 74% percentage respectively for 2022 and 2023 passed out batches. The placement results were all time high with 114 job offers for the batch 2021-23 with 78 students placed. The students were subjected to several meaningful placement training and career guidance programs as listed below which had given them an edge in placement selection processes.

FBS could organise 11 Corporate Interaction series in which the students got an opportunity to interact with top echelons from practising managers during the period. One International Conference, One HR Conclave and One FDP program on Case Writing and Teaching were organised, these aided the research activities and added to the intellectual capital of the institute. A research compendium was also published subsequent to the international conference.

Add-on courses for students in Microsoft Advanced Excel, SPSS Power BI and Introduction to SAP were offered to the students which help them to be better placement ready. Several achievements by the faculty are also listed including guiding 4 PhD candidates to completion under Bharathiar University, Coimbatore by Dr A J Joshua. Not only faculty have reaped achievements but several students also had achievements to show as listed.

The list of activities the department has undertaken is given below:

Industry talks (Corporate Interaction series)

- Intellectual Curiosity, Strategic Management(ICSM) and Multiplying your Analytics Quotient(MYAQ) by Dr. Thomas Joseph, Advisory Council Member, FISAT Business School, Adjunct Professor, IIM - Udaipur and Visiting Faculty at IIT Delhi October 19, 2022
- "Investor Resilience - A smart Investor conducts research before investing and diversifying his portfolio" conducted as part of the World Investor Week 2022 Krishna Prasad G, BSC IPF and N P Rajiv, CDSL IPF October 12, 2022
- "Corruption free India for a developed nation" as part of Banking Vigilance Awareness Program 2022 Ms. Devi, Manager, Federal Bank November 11, 2022
- How To Read A Business Daily by Mr. Anil C. R Senior Manager, Results and Marketing Department at Times Group Kerala November 2, 2022
- Find the treasure within you by Mr. Sanju P Cherian, Certified Trainer, Renowned Speaker & a Mentalist December 6-9, 2022
- Being Humane while driving growth by Shri K. S Sabarinadhan, State Vice President, Youth Congress, Kerala December 20, 2022

- 'Understanding the Commodity Derivatives Market' conducted by NCDEX IPF Trust & FISAT Business School, Angamaly, Kochi Dr. K. Prabhakaran, Empanelled Resource Person of SEBI and NCDEX & Trainer of NCFE January 13, 2023
- Manorama Budget Lecture at Gokulam convention Centre by Dr. Biswajit Dhar(JNU) Feb 6, 2023
- Investor Awareness Programme organised by Finfrats, FBS in collaboration with BSE & CDSL Mr. Krishnaprasad G, IPF Executive, Bombay Stock Exchange & Mr. Sumith Subramanian, Resource person for CDSL IPF (Investor Education), Securities Market Trainer of SEBI Feb 17, 2023
- "A journey of entrepreneurship" as part of "MEET THE EXECUTIVE: Converging Minds, Expanding Horizons" program by Mr. Vinayakumar Balakrishnan, Chairman and Managing Director Thooshan Aug 16, 2023
- "Womanpreneur Chronicles: A journey unveiled" as part of the "MEET THE EXECUTIVE: Converging Minds, Expanding Horizons" program by Ms. Sindhu Augustine, Managing Director, Toyforest Industries Aug 17, 2023

Inauguration of MBA 2023-25 Batch

- Induction Ceremony - MBA 2023 Batch by Mr. Thomas Kuruvilla, Managing Partner for the Middle East & Global Board Member of Arthur D. Little, and Mr. Vishnu Narayan B, Region Head-Talent Development, TCS Kerala Aug 10, 2023

Placement training and Career guidance

- The Federal Bank placement training by Pragmatix November 16, 22, and 30, 2022
- The Federal Bank Placement Interview training by Dr. Dhanya Alex November 26, 2022
- Orientation program for first year students by Mr. Sanju P Cherian, Certified Trainer, Renowed Speaker & Mentalist Aug 18-25, 203
- Sparkle-Placement Training by Vertical Eye Krishnakumar K, Co-Founder and Director, Vertical Eye Aug 7-12, 2023
- Mpower by Krishnakumar K, Co-Founder and Director, Vertical Eye Sept 18-21, 2023

Faculty development programs organised by the department

- Faculty development Programme on Case Writing and Case Teaching by Dr. Simon George, Dean- Academics, T.A. Pai Management Institute, Manipal June 29-July 1, 2023

International conferences / Workshops organised by the department

- FBS International Conference on Banking, Finance and Accounting Research 2023, Resource Person: Dr. K N Raghavan (IRS), Chairman, Rubber Board April 17-18, 2023
- Annual HR Conclave 2022 - Resource Persons: Dr. A V Jose, Vice President & Head- L&D, ESAF Small Finance Bank LTD Mr. Kamal Mambilly, CHRO- Geojith Financial Services Ltd Mr. Rijo Thomas, Associate Director – Recruitment & Staffing, Ernest and Young Pvt Ltd November 25, 2022

Add on and Certification programs offered

- Power BI Training by Mr. Jomon Joseph- Microsoft Certified Educator Feb 6-10, 2023
- An introduction to SAP training and certification by Mr. Johny Johnson, Electromech Enterprises Feb 22, 2023

- Excel training by Mr. Jomon Joseph- Microsoft Certified Educator Sept 7-14, 2023

Forum Of Management Students (FMS) Activities

- Intra Departmental Fest PRATIBHA '23 Mr Arun Manjali, Cine Artist Mr. Sikh Sajeev, Mimicry artist Mr. Sudeep Kongorpilly, Folk Song Singer March 18, 2023

Entrepreneurship cell activities

- Entrepreneurship Cell Inaugural Ceremony Smt. Sheela Grace Kochouseph (Founder & CMD, VSTAR Creations Pvt. Ltd January 20, 2023
- IDEATHON 2023 coordinated by Dr. A. J Joshua, Dr. Anoo Anna Anthony, Dr. Nitha Unnikrishnan Feb 23, 2023

International Visits and Field visits for students

- International Industry Visit to Malaysia, Dr. Nitha Unnikrishnan Ms. Merin Thomas Mr. Prasanth P John Mr. Praveen V accompanied students during March 27-31, 2023
- A study tour to Wayanad, Koorg, Belur, Malpae Dr. Dhanya Alex Dr. Jose Varghese accompanied students during April 23-27, 2023

Other programs

- Course Completion Ceremony- Ademptio 23 and Farewell Smt. Sushama Srikandath, Managing Director, AVT McCormick July 21, 2023

Publications

- Dr. Dhanya Alex, Dr. Nitha Unnikrishnan, Ms. Merin Thomas, Research Compendium edited volume on Contemporary Perspectives on Management, Accounting and Finance

Academic Results

Admission Year	Class Semester	& Number of students	Number of students passed	Results (percentage)	Program pass (for s4 only)
2021	S4 MBA	120	118	98.3	74.1
2022	S1 MBA	119	115	96.64	
2021	S3 MBA	120	119	99.17	
2021	S2 MBA	120	94	78.3	
2020	S4 MBA	116	110	94.83	87.93

Listed below are the achievements of students and staff members during the period

- Mr. Prasanth served as the Resource Person for career guidance session 'Gearing Up for the next Revolution' on Industry 4.0 October 27, 2022
- Mr. John Ukken Tarang 2022- won the " Best Manager" at NIT Management Fest in October 21-23, 2022

- MBA 2022 -2024 Batch Students won the 2nd Prize in Marketing Gameat Tarang 2022- NIT Management Fest October 21-23, 2022
- Mr. John Ukken won the 'Best Manager' - Management Fest, Marian College, Kuttikkanam October 28-29, 2022
- MBA 2022 -2024 Batch Students won Second Prize in HR Event - 'Inflora', Rajagiri Business School October 14-15, 2022
- Dr. A J Joshua Successfully guided Sonia Elizabeth Thomas, a research scholar for the award of Ph.D. on the topic titled "A study on HR Strategies for managing gender-based issues at the workplace with special reference to the IT employees in Kochi, Kerala" November 23, 2022
- Dr. Dhanya Alex served as resource person at SNGIST, North Paravur for a Training program conducted on Nov 2, 2022, for Faculty on Outcome Based Education. November 2, 2022
- Dr. Dhanya Alex served as a Subject Expert in the Board of Studies, Vimala College, Thrissur November 15, 2022
- Dr. Dhanya Alex served as resource person for the Workshop on "User awareness on National Digital Library of India" conducted by the NDLI Club at FISAT November 26, 2022
- Dr. Dhanya Alex presented a paper at Rajagiri Conference on Economics and Finance (RCEF '22) organised by Rajagiri Business School November 29, 2022
- Dr. Dhanya Alex External Expert on the Panel of Faculty Selection Board, Sahrdaya Institute of Management Studies December 12, 2022
- Dr. Dhanya Alex served as Chief Guest for the Curtain Raiser Event of "Meraki" the Management Fest of Sahrdaya Institute of Management Studies December 12, 2022
- Dr. Dhanya Alex was a participant in the International Learner's Summit organised by the Indian Society of Training and Development (ISTD) December 15, 16, 2022
- Dr. Dhanya Alex Resource person for the Orientation session on NAAC Accreditation Criteria, Documentation and Reporting for the Teaching and Non-Teaching Staff of Sahrdaya Institute of Management Studies December 17, 2022
- Dr. Dhanya Alex served as the External Auditor for Academic Audit Lead College of Management, Palakkad January 18, 2023
- Dr. A J Joshua Successfully guided Boby Varghese, a research scholar for the award of Ph.D. on the topic titled "Product placement in movies as a marketing communication tool. A study on the movie goers of Kerala". Feb 23, 2023
- Dr. Dhanya Alex served as Session Chair for the Technical Session of Social Science Research Colloquium 2023 held at SCMS School of Technology and Management March 2, 2023
- Dr. Dhanya Alex served as Resource person for a One day FDP at Cochin College, Fort Kochi on the topic "The Art and Science of Teaching " March 11, 2023
- Dr. Dhanya Alex Presented a research paper at IIT Roorkee International Conference on Sustainable Business Management March 25, 2023
- Ms. Rahana Kadar Kunju Ms. Teresa Kuriakose V Ms. Aswathy M C Ms. Ashly K Antony won the KMA student scholarship. For MBA students the scholarship amount is Rs 25,000 per head April 5, 2023
- Dr. A J Joshua Successfully guided Rajani Sunny Asst professor SNGCE for the award of Ph.D. on the thesis titled "A Study on Perceived Organisational Support, Work Engagement and job satisfaction of faculty members " April 19, 2023
- Dr. A J Joshua Successfully guided Mr. Vivek Venugopal working with TATA CROMA for the award of Ph.D. on the thesis titled "Key Decision drivers for purchase of television extended warranty form Indian organised retail stores- A study with reference to Bangalore city." May 5, 2023

- Ijas V.K Secured 43rd position for "Trade A Thon" a National level stock trading competition conducted by NSE. More than a few thousand participants competed from all over India May 8-12, 2023
- Ms. Rushail Roy Selected as the finalist for Zee 5 Keralam July 15, 2023
