



FISAT®
**FEDERAL INSTITUTE OF
SCIENCE AND TECHNOLOGY**



Focus on Excellence

Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University

📍 Hormis Nagar, Mookkannoor P.O., Angamaly-683577, Kerala | ☎ 0484 27225272 | ✉ mail@fisat.ac.in | 🌐 www.fisat.ac.in

FISATian HERALD

VOL 6 | JAN - MAR 2024



VISION OF THE INSTITUTE:

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 OF THE INSTITUTE:

- 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.



Academic
Excellence



Innovation
& Research



Ethics &
Leadership



Sustainability
& Community

An Initiative of Federal Bank Officers' Association Educational Society



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Arangu and Bharatham 2024: A Cultural Extravaganza

FISAT recently hosted its annual Arangu and Bharatham arts fests from February 29th to March 2nd, 2024. The events featured stellar performances by Harisree Ashokan, Hakkim Khan, Sona Olikkal, Sachin Warriar, Anju Joseph, Thirumali, and the Band Ochha. Highlights included the captivating theme show, Tashan, the energetic group dance competition, Choreonight & other competitions. These festivals not only showcased talent but also fostered cultural exchange and camaraderie among participants.



FBS Promotes Financial Literacy

FISAT Business School, in collaboration with BIAP Mumbai and Apex Academy, organized a seminar titled 'Overview of Securities Market and Career Growth' on January 24, 2024. Led by Mr. Manoj T Neelakantan, a Certified Trainer-SEBI and former AGM at IDBI Bank, the seminar aimed to enhance financial literacy among management students. It covered investment strategies, scams, and career opportunities, receiving positive feedback for its comprehensive insights from industry experts.



FBS' 'Forum 2024' Breaks Records

'Forum 2024', hosted by FISAT Business School on Feb 28-29, 2024, drew 230 teams and 720 participants from 81 colleges nationwide. The event showcased management and creative competitions, with challenging activities like Marketing and Finance Games, HR Games, and Business Quiz. Supported by The Federal Bank as the title sponsor, the event featured a generous prize pool of 3.5 lakhs, setting a new standard for collegiate events. The valedictory function, graced by esteemed guests, marked a successful conclusion to the event.



FISAT Trophy - Cricket



FISAT Mens' Cricket team Secured Runner-up position in FISAT TROPHY 2024

The Tug Powerhouse



Eight students from FISAT have been selected to represent KTU tug of war team in the south west university championship.



FISAT Tug of war Mens' and Womens' team secured First runner-up position in KTU inter collegiate Tug of war championship

FISAT Trophy - Womens' Basketball



FISAT Womens' Basketball team Secured Runner-up position in FISAT TROPHY 2024

FISAT Trophy - Mens' Volleyball



FISAT Mens' volleyball team bagged first position in FISAT TROPHY 2024

Title Defended at Musaliar College



FISAT Mens' volleyball team bagged first position in All Kerala Inter Collegiate Musaliar Cup 2024 for the second time in a row

Providence Cup Winners



FISAT Mens' Basketball team bagged first position in Providence cup 2024

Champions at VJCET



FISAT Mens' Basketball team bagged first position in VISWAJYOTHI Basketball Tournament 2024

FISAT Trophy - Mens' Basketball



FISAT Mens' Basketball team bagged first position in FISAT TROPHY 2024

NSS Special Camp at Blind School

The NSS camp at The Blind School in Aluva, held from January 22nd to 28th, proved transformative for volunteers and students alike. Activities included restoring the vegetable garden, organizing a blood donation drive, painting the playground, and conducting awareness rallies and cultural events. These efforts fostered camaraderie, commitment, and friendship while promoting empathy and social responsibility.



Traffic Karmasena Program

On January 25th, the inauguration of the "Traffic Karmasena" program at St Joseph Parish Hall, Josepuram, aimed to tackle road safety issues through community engagement. Collaborating with Traffic Police, Angamaly, the program emphasizes responsible driving and adherence to traffic rules. Municipal Chairman Shri Mathew Thomas and other dignitaries graced the event.



National Integration Selection Camp

Agnes Shibu and Anto Tomy represented FISAT at the National Integration Selection Camp in Palakkad on February 17th. Agnes secured the 10th position, and Anto secured the 13th position out of numerous participants. Their achievement is noteworthy, considering the limited number of selections from across Kerala.



Essay Writing Competition

'Role of Millets for Sustainable Future' essay writing competition was conducted by NCC FISAT Unit among college students on 15th Dec 2023. The United Nations General Assembly had adopted a resolution declaring the year as the International Year of Millets.

Winners

- 1st - Lcpl. Ann Mary Benny, S4 EI
- 2nd - Mr. Christo Thomas, s5 EEE
- 3rd - Cdt. Anagha K P, s1 ECA

Camp Attended

Five B certified cadets of FISAT NCC unit successfully attended CATC Camp from 21 Dec 2023 to 31 Dec 2023 at St Pauls College Kalamassery



Lt. Dr. Prasad J C Leads Kerala NCC Team to National Level Camp

Lt. Dr. Prasad J C assumed the role of 2IC Contingent Commander, leading 150 cadets from Kerala to the 'Ek Bharath Sreshta Bharath' Camp in Ahmedabad, Gujarat, held from January 6th to January 22nd, 2024. Additionally, Lt. Dr. Prasad J C was honored with the Best Coordinator Award for excelling in Group Discussion, Speech, and Essay Writing competitions during the camp.

Webinar on National Mathematics Day

Maths Club FISAT in association with the Department of Science & Humanities organized a webinar in connection with the National Mathematics Day on 18th December 2023. Mr. Anand O. R., Research Scholar, IIT Madras, was the resource person.

A Webinar as a part of

NATIONAL MATHEMATICS DAY

CELEBRATIONS

Topic

COMBINATORICS

Resource Person

Mr. Anand O R
Research Scholar
IIT, Madras

Best Shooter Award

Cdt. Pradhamesh Prasad Pillai received the Best Shooter Award representing NCC FISAT UNIT in 22 Kerala Bn on 27th December 2023.



Tribute to Pulwama Martyrs

On February 14, 2024, while the world celebrated Valentine's Day, the NCC Unit of FISAT College chose to honor the memory of the 40 soldiers who made the ultimate sacrifice in the Pulwama attack five years ago on the same day. The ceremony commenced with the NCC guard team's commanding presence. Principal Dr. Jacob Thomas led the tribute by laying a garland at the statue of Amar Jawan, followed by a floral homage.



Webinar on National Science Day

The Department of Science & Humanities organized a National Webinar on "Beyond Plastics: Sustainable Alternatives through Biomaterial Innovation" in connection with the National Science Day on 24th February, 2024. Dr. Sreekala M. S., Associate Professor, School of Chemical Sciences, MG University, was the resource person.

Beyond Plastics: Sustainable Alternatives through Biomaterial Innovation

Resource Person

Dr. Sreekala M. S.
Associate Professor,
School of Chemical Sciences,
Mahatma Gandhi University

School of Polymer Science and Technology (SPST)

Subject score 53.1

Founder
Prof. Dr. Sabu Thomas

Director
Dr. Sreekala M.S.

MGU listed in the best universities in India for Polymer science in 2022-23- by US News

<https://www.usnews.com/education/best-global-universities/india/polymer-science>

COURSES OFFERED

BACHELOR OF SCIENCE IN POLYMER SCIENCE

BACHELOR OF TECHNOLOGY IN POLYMER SCIENCE

M.Sc. POLYMER SCIENCE

M.Tech. POLYMER SCIENCE

Ph.D. POLYMER SCIENCE

Erudite Lecture Series

Dr. Dibakar Rakshit from IIT Delhi delivered a captivating lecture on "Green Building Concepts and Sustainable Energy Solutions" at the Eighth Annual Guest Lecture of the Erudite Lecture Series. Attendees gained insights into innovative approaches towards sustainable energy solutions



Mechanical Engineering Students Excel with Industry-Aligned Courses

Final-year Mechanical Engineering students honed their skills with two value-added courses. Training by Conceptia Software Technologies, Bangalore, led 32 students to attain the prestigious Certified SOLIDWORKS Expert (CSWE-Mechanical Design) certification. Additionally, an advanced Excel course enhanced their data analysis and problem-solving abilities.



Easy Report App Handed Over to Mookkannoor Panchayath

Mohammed Suhail (MCA2021B) developed the 'Easy Report' app for the Public Health Centre of Mookkannoor Panchayath. It was handed over to Sri Biju Palatty, President of Mookkannoor Grama Panchayath.



MOU Signed with Logix Space Technologies

The Department of Computer Applications signed an MoU with Logix Space Technologies, Kochi, on February 15, 2024. This collaboration aims to bridge academic learning with industry demands.

Patent Filed for Personalized Cardiovascular Diagnosis

Mr. Krishnakamal M (2022 B batch), Dr. Sujesh P Lal, and Ms. Joice T filed and published a patent for Personalized Cardiovascular Diagnosis through Ensemble DL via FISAT IPR Cell and R & D Cell, FISAT.



Technical Talks and Webinars

Various technical talks and webinars were conducted for MCA students, covering topics like Hardware Modeling, Single board Computers, User Stories Importance, and Latest Trends in Software Development.



MERN Stack Bootcamp

A bootcamp on MERN Stack was organized for the 2022 batch MCA students. The program aimed to equip them with modern web development skills, led by expert trainers from Logix Space Technologies Pvt. Ltd, Kochi.



Hands-on Training Programs

Hands-on training programs were conducted on Full-Stack Mobile App Development using Google Flutter for S4 MCA students and Python Programming for second-semester MCA students.



Expert Talk on Placement Preparation

An Expert Talk on 'Kick Start the Placements 2024' was delivered by Dr. Bejoy Varghese, Placement Officer, FISAT, for S2 MCA students as part of Industry Readiness Training.



TCS Specific Training

TCS-specific training sessions were conducted for S4 MCA students and TCS-specific Aptitude Training for S1 students by experts from Pragmatix.



Read & Share Book Donation Drive

The Department Library of the Department of Computer Applications organized a successful "Read & Share" Book Donation Drive, fostering a culture of knowledge-sharing among students and staff.

SPS Outstanding Student Branch

The Signal Processing Society (SPS) of IEEE FISAT SB has been honored with the prestigious Outstanding Student Branch Chapter Award for 2023. This recognition celebrates their exceptional dedication to advancing signal processing research and fostering a vibrant student community.



Dr. A Unnikrishnan, Retired Associate Director, NPOL (DRDO) handing over the award to SPS society members Helen Anil, Anoushka K and Gregory Kurien.

IEEE Outstanding Student Branch

IEEE FISAT SB has been honored with the prestigious Outstanding Student Branch Award by IEEE Kochi Subsection. This recognition highlights the branch's commitment to engineering excellence and leadership within the engineering community. It underscores their dedication to fostering innovation and nurturing future engineering leaders.



Dr. Pramod Gopinath, Chair IEEE Photonics Society Kerala Chapter, handing over the award to IEEE FISAT SB student members: Samanuai A and Arsha M Joby.

Winners at IEEE KREEPA Green Power Expo

Aakash Shaji, Aaron Sabu Joseph, Amala Joy, Aravind Surendran, Allen Simon Antony, and Clinto Jose, students of the 2019-2023 batch, participated and won the first prize in the student innovation competition conducted by IEEE KREEPA GREEN POWER EXPO 2023, held at ADLUX Convention Centre, Angamaly, from December 7th to 9th, 2023.



Smart India Hackathon

Alfred Antony, Aswin ER, Austin Dennis, Sana Yasmin, Sneha G, and Vidhun R of S8 EIE participated in the Smart India Hackathon Finale conducted by the MOE Innovation Cell at MIT ADT University, Pune, from December 19th to 23rd, 2023.



Crowned @ KETCON

Ms. Ajannya S of S8 EIE secured the third prize in the paper presentation contest at the Kerala Technological Congress (KETCON 2024). The event was organized by APJ Abdul Kalam Technological University, Thiruvananthapuram, and hosted by Ahalia School of Engineering and Technology, Palakkad, from February 16th to 18th, 2024.



FISATian in FINLAND

Akash Pradeep from S4 EIE was selected as one of three teams worldwide to present their project at the 21st International Conference on Smart Technologies & Education (STE) 2024, held at Arcada University of Applied Sciences in Helsinki, Finland, from March 6th to 8th, 2024.



Ph. D. Awarded

Ms. Rinku Scaria, Assistant Professor in the Department of Electrical and Electronics Engineering, has been awarded a PhD degree by the Annamalai University for her innovative thesis on Photovoltaic Systems.



ADD-ON Course on AUTO CAD

Joining hands with CAD center, MG Road, Cochin, the department was able to deliver a certificate course on AUTO CAD -REVIT MEP for 80 hours for final year students. The classes were conducted during 15h to 24th FEB 2024 for the 2020-2024 batch.



Career Guidance Session

Department of EEE arranged a career orientation session on "How to prepare for Licence Exam, (B grade and A grade) and core opportunities in Electrical engineering" on 11-03-2024, by joining hands with MTTC INTERNATIONAL LLC, a STEAD (Scientific & Technical Education Development Council) authorised training Centre (ATC Code 571/EKM/18) & MSME, (Under Govt. of India) Approved Company with AICTE registration.



Project Expo-Techfuse

The FISAT Electrical and Electronics Department's Mini Project Expo Techfuse, held on December 5th, 2023, showcased fifth-semester projects covering various topics such as Cell Phone Detector and Automatic Gate for Heavy Vehicles. Cash prizes were awarded for the top three projects.



Crowned @ KETCON

Students of ECE: Joshua Alex Mathews, Sandra Babu and Faculty of ECE: Ambili A.R and Dhanya S received first prize in Paper Presentations for Electronics and Communication Engineering Track at the Kerala Technological Conference (KETKON 2024) organized by APJ Abdul Kalam Technological University. The paper was presented by Ambili A.R and Dhanya S at the event. The authors included are Muhammed Nihal T, Rosemary Thomas, Ambili A.R, Pankaj Kumar G, and Dr. Anilkumar M.N.



Students of ECE: Neena J Ukken Navya Jose, Megha P Chandran and K Sreerag and Faculty of ECE: Ambili A.R and Dhanya S received first prize in Paper Presentations for Computer Science and Engineering Track at the Kerala Technological Conference (KETKON 2024) organized by APJ Abdul Kalam Technological University.



Patents filed by the Faculty and Students of ECE

1. Smart Firewood Stove: Crafted by Noble G and team - Akshaya Jayan, Fousiya P Manaf, Gowri Prasad, and Jain Joy - this stove enhances safety and convenience with its simple flame control.
2. Automatic Bed Veil Fixer: Another creation by Noble G and students Adithya K V, Alexander Jacob, Aswin J, and Godly Lajju, this device effortlessly straightens bed covers with just a single press.
3. Bug Detector for Cars: Developed by faculty members Sreevidya P and Ambili A R, this tool identifies potential petrol tank-damaging bugs, promising practical solutions for car maintenance.

Hour of Code'23

A workshop on the "Basics of Python and AI" was organized by the ACM Student Chapter, FISAT on the 6th of December, 2023, at Government Higher Secondary School, Mookkannoor, for students in classes 8, 9, and 10 from 2 PM to 4 PM. The session was conducted by Ann Mary Tommichan, Diya K Dileep, Rhithika M Pradeep, and Sidharth C.J of S3 CSE.



Java Performance Engineering and Diagnostics

The Department of CSE organized an add-on course on "Java Performance Engineering and Diagnostics" starting from January 29th, 2024, for the students of S6 CSE A, S6 CSE B, and S6 CSD, aimed at preparing them for placements. The session was conducted by Mr. Mahesh C, Assistant Professor cum Chief Technical Officer at FISAT.



Seminar on 'Scope and Future in Gaming Industry'

The Department of CSE, in association with BIGBOY, organized a seminar on the "Scope and Future in the Gaming Industry" on February 13th, 2024, for the final year students. The session aimed to provide insights into career opportunities within the gaming industry.



Internship at NeST

As part of a collaboration with NeST, 34 students from S6 CSE completed their internship in the Angular framework at NeST facility, Infopark, Kakkanad, in February 2024.



Imaging Revolution



Dr. Jyothish K John (HOD, CSE), Mr. Mahesh C (Assistant Professor, Dept. of CSE), Dr. Bejoy Varghese (Assistant Professor, Dept. of ECE) filed and published a patent for 'A method of image transferring by neural evolution and reinforcement learning using adaptive fractal' through the IPR Cell and R&D Cell, FISAT.

International Collaboration with University of Malaysia Al-Sultan Abdullah

The department forged an International Memorandum of Understanding (MoU) with the University of Malaysia Al-Sultan Abdullah, Pahang, to enhance academic and research cooperation. This includes joint symposia, online courses, research collaboration, and institutional exchanges.



National Seminar on 3D Printing

A three-day National Seminar on Recent Advances in 3D Printing, partially funded by Kerala State Council for Science Technology and Environment (KSCSTE), was organized. Dr. Rahul A V from IIT Tirupati inaugurated the event, highlighting the future opportunities in 3D printing. Sessions were conducted by industry experts and academia.



Patent Application Publication

Dr. Kavitha P E and team secured a patent for "Light Weight Beam Element Made from Recycled Plastic Laminate Encompassed with Cold-Formed Steel," promising sustainable construction materials.



MoU with Matter Material Testing and Research Laboratory

The Department of Civil Engineering entered into a MoU with Matter Material Testing and Research Laboratory, Kozhikode, providing student training, material testing facilities, and internship opportunities.

