



Techno Beads



SAHRDAYA
COLLEGE OF ENGINEERING & TECHNOLOGY
AUTONOMOUS
KODAKARA - THRISSUR (DT) - KERALA - INDIA - 686684



SAHRDAYA NEWS & VIEWS

BOOK - 21

VOLUME - 2

JULY - 2024

VISION

- Evolve as a leading technology institute to create high caliber leaders and innovators of global standing with strong ethical values to serve the industry and society.



Chairmans Message

"Sahrdaya has always been a pillar of holistic development!" Sahrdaya is not just a community of scholars and innovators; instead, it becomes a force for positive change in society. As engineers, you possess the unique ability to shape the world around you, and with that comes a profound responsibility - to use your skills and knowledge to make a meaningful impact on the lives of others. Students should view their education as more than just a path to a career. It is an opportunity to become leaders who can address the challenges facing our world today. Whether it is developing sustainable technologies, creating innovative solutions to global problems, or simply being a force for good in your community, your work has the potential to leave a lasting legacy. Engage fully with your studies, participate in projects that matter, and always keep in mind the broader implications of your work. I encourage all faculty members to continue pushing the boundaries of research and to integrate social consciousness into your teaching. By doing so, you help to create engineers who are not only technically proficient but also deeply aware of their role in society. You are the mentors, guides, and role models who inspire the next generation of engineers. May you strive to create an environment where innovation and social responsibility go hand in hand. Let us foster a culture where excellence is pursued not just for personal success, but for the betterment of society as a whole. By working together, we can ensure that Sahrdaya College of Engineering and Technology remains a beacon of hope, creativity, and progress. Dear Sahrdayans, use your creative skills and potentials to make a better world around us. Best wishes to the editorial team of 21st book series of Sahrdaya Newsletter, 'Techno Beads.'

Mar Pauly Kannookadan

Mar Pauly Kannookadan
Bishop of Irinjalakuda Diocese



MISSION

- Provide quality technical education that transforms students to be knowledgeable, skill, innovative and entrepreneurial professionals.
- Collaborate with academia and industry around the globe, to strengthen the education and research ecosystem.
- Practice and promote high standards of professional ethics, good discipline, high integrity and social accountability with a passion of holistic excellence.

- ◆ Sahrdaya College of Engineering and Technology and NASSCOM signed an MoU to enhance the skills of students. Dr. Upmith Singh Head strategy and operations, SSC NASSCOM and other regional heads were also present in the MoU exchange



- ◆ College Day was celebrated on March 23rd 2024. In connection with College Day, a 'Clothing Donation Campaign' was organised and donated good quality Clothing through the Cloth Bank Venture started by Rev. Fr. Davies Chiramel. S (chairman of the Kidney Federation and founder of ACTS).



- ◆ Mega Alumni Reunion event- "Homecoming 2024" was held on 17th February 2024. The District Collector of Thrissur V R Krishna Teja IAS inaugurated the Alumni reunion.



- ◆ IQAC of Sahrdaya College of Engineering Technology, in association with ISTE, has conducted a staff development program- "Mentor mentee relationship" on 24/01/24 by Sr. Dr. Sherin Maria CHF and Dr. Latha Raj.



SPECIAL EVENTS & ACHIEVEMENTS

- ◆ Sahrdaya College of Engineering and Technology -Granted Autonomous Status by The UGC for 10 Years!



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◆ Annual sports meet is conducted on February 24, 2024



◆ Aroham-Sahrdaya Engg College's Arts Festival was celebrated on 1/3/2024 and 2/3/24 which was inaugurated by Mr. Tom Emmatty (Film director and actor).



◆ Project exhibition for 2020-2024 batch, 2021-25 batch, 2022-26 batch and S2 was conducted on 22/04/2024, 20/04/2024, 20/04/2024 & 22/04/2024 respectively.



◆ The following members are awarded the degree of Doctor of Philosophy (PhD) in this period



Dr. Ranimol G.
Asst. Professor, BT



Dr. Anett Antony
Asst. Professor, ECE

STUDENTS ACHIEVEMENTS

- ◆ Avinash Haridas of B.Tech ECE (2020-2024 batch), secured first prize in the 3rd Kerala Athlete Physique Alliance (KAPA) Mr. Thrissur bodybuilding and Physique Championship 2024 held at St. Thomas Thope Indoor Stadium Thrissur.
- ◆ Ms. Jennipher George, Ms Riya Zakkariya, Ms Gouri Nair and Mr Christo PN from 2020-2024 batch BT received the Best paper Presentation Award at Equilibria 2024, a national level Conference organized by the Department of Biotechnology and Biochemical Engineering, Sree Chitra Thirunal College of Engineering, Trivandrum.
- ◆ Ms Vivina Puthur and Ms Nimmymol Jose of 2020-2024 batch BT won the best paper award at the KETCON conference held at Ahalia School of Engineering on 19 February 2024.
- ◆ Ms Vivina Puthur and Ms Nimmymol Jose of 2020-2024 batch BT won the best paper award for the paper titled "Screen Printed electrodes modified with

multiwalled carbon nanotubes for the detection of clindamycin hydrochloride" in the IEEE 5 NANO conference held at VISAT Engineering College, Ernakulam on 25th, 26th April 2024.

- ◆ 16 students from Sahrdaya from BME and ECE Dept have successfully completed the Certification from Siemens Healthineers on Innovation Think Tank as part of the Capacity Building Course organized from March 26th to April 4th, 2024.
- ◆ Albin Sunil Skaria, Anne Staicy Philip, Angith S. Menon and Hariprasad C. K. secured 3rd prize for Ignium 2023 Idea Pitching Competition organized by IEEE EMBS Kerala Chapter and received a cash prize of Rs. 7,500.
- ◆ Ms Athulya MM of CE2020-2024 batch has secured an All India Rank of 10765 in GATE 2024 with a score of 359.
- ◆ Eby Dominic, Malavika, Liya, Aiswarya, Riya & Seon of B.Tech ECE (2022-2026 batch) bagged the second prize in Hardware hackathon jointly organized by IEEE.
- ◆ Mr. Dixon Joy, Mr. Richard Tomell, Mr. Akash Ramachandran and Ms. Maria Thomas, presented a paper titled "Bidirectional EV Charger" in the International Conference on Circuit, Control and Energy organized by Department of EEE, Christ College of Engineering as a part of TECHLETICS'24 held on 28 February 2024.
- ◆ Mr. Shine Shaji, Mr. Angelo J Akkara, and Mr. Shivaprasad K Ja presented a paper titled "Bio-Revival" in the International Conference on Circuit, Control and Energy organized by Department of EEE, Christ College of Engineering as a part of TECHLETICS' 24 held on 28 February 2024.
- ◆ Mr. Manu K B of 2022-26 batch secured first prize in 24 hour hackathon conducted by ASCE (American Society of Civil Engineers) in MITS college, Kochi on 25th April 2024 in the topic intelligent waste management.
- ◆ Geona Varghese of B Tech ECE (2021-2025 batch), received a cash prize worth 25K as a part of her academic excellence, at Regional Center Thrissur.
- ◆ Four students of 2021-25 batch BT qualified GATE 2024 Exam, and Ms Gopika S Nair with an outstanding All India Rank of 345.

PRIZES SECURED IN PROJECT COMPETITIONS

- ◆ Godson C.S, Akhil Davis, Abhishek S Menon and Abhijith of B.Tech ECE (2020-2024 batch), bagged first prize in hackathon Kryotos 2.0 on "Healthcare-Assistive technology for disabled" conducted at Christ Engineering College Irinjalkuda.
- ◆ Sahrdaya College of Engg and Technology is honoured to announce that four innovations have secured recognition at the Kerala Startup Mission IEDC Idea Fest 2023. Each of these selected projects will be supported with funding of ₹ 2 lakh through our IEDC.
- ◆ A project team consisting of Angith S Menon, Anne Staicy Philip, Albin Sunil Skaria and Hariprasad C K and guided by Dr. Reshma Jose from the Department of Biomedical Engineering was the winner of the idea pitching competition for the idea Intelligent fall detection Vest integrated with Air Bag System for Elderly People conducted by IEEE EMBS KC. They received a funding of Rs 10,000.
- ◆ The project team consisting of Laxmi roopa, Joel and Sreerag from 2021-25 batch BM guided by Mr. Jayakrishnan S titled Knee Assist Exos Brace was awarded second place in the INSA Sponsored National Conference - AIDSHC -24.
- ◆ Project titled Pediatric Laryngoscope using Video Processing won first prize under the track: Health Care and Innovation at SRISHTI 2024 on 26th and 27th February 2024 at SAINTGITS College of Engineering. The project is guided by Dr. Reshma Jose.





- ◆ Project titled "Pediatric Laryngoscope using Video Processing" guided by Dr. Reshma Jose won a silver award at KSCSTE TECHFEST 2024 conducted at IIT, Palakkad on 2nd and 3rd March. The members are Keerthana Krishnakumar, Sharil Babu, Soorja Sunil and Mohammed Yaseen Jawad.
- ◆ Albin Sunil Skaria, Anne Staicy Philip, Angith S. Menon and Hariprasad C. K participated and presented a paper titled as Intelligent fall detection Vest integrated with Air Bag System for Elderly People in the Research Conclave on Global Transformations 2024 organized during April 19-20 at NIT, Calicut.

HR & PLACEMENT CELL

- ◆ Pragmatix commenced the 36-hour Aptitude Training for the 2021-2025 batch on March 11, 2024.
- ◆ The 10-day (60-hour) Coding Skills Training by Manifold for the registered students from the 2021-2025 batch began on April 8, 2024.

TECHNICAL ASSOCIATIONS

◆ EBSA (BME ASSOCIATION)

- ◆ The Department of Biomedical Engineering signed an MoU with Meditix Solutions on January 22nd 2024.
- ◆ Department Of Biomedical Engineering in association with NDLI CLUB and EBSA organized Online Quiz Competition on the theme Emerging India on 06/02/2024.
- ◆ The Digital University of Kerala conducted a talk for 2020-2024 batch students on Placements and Higher Studies.
- ◆ The Department conducted a session for the familiarization of the 2 channel and 16 channel Biopac system on 23/01/2024 for the faculty members.
- ◆ The Department conducted a one day FDP on Matlab with the help of CoreEL Technologies - Official partner of Matlab Inc. on 16/01/2024 for the faculty members.
- ◆ The Department conducted a session by Fluke on Medical Equipment Safety Analysers on 02/02/2024 for the faculty members.
- ◆ The Department of Biomedical Engineering conducted training sessions for 2021-25 batch students from Feb 5th to 9th and for 2020-2024 batch students from Jan 29th to Feb 2nd by Agappe Diagnostics Ltd.
- ◆ The Department of Biomedical Engineering conducted a session on Technical paper Writing by Ms. Niya R.M, Research Scholar, Department of Biotechnology, SCET on 6/2/2024 for 2021-25 batch students.
- ◆ AD Instruments conducted a training program to faculty of Biomedical Engineering Department on 6/2/2024 on Multichannel Signal Acquisition System
- ◆ Faculty and students from the Department of Biomedical Engineering conducted a session at Nirmala Matha School, Thrissur on how to acquire and view different physiological signals on a Multiparameter Physiological monitor and demonstrated the working of several Biomedical equipment.
- ◆ 24 aspirants from the B. Tech Biomedical Engineering program at Sahrdaya College of Engineering and Technology have secured internships in core biomedical companies by earning stipends.

◆ BEATS (BTE ASSOCIATION)

- ◆ Mr. Aswin K Sasi, alumni 2015-19 batch, interacted with the 2022-26 batch, 2021-25 batch students of the BT Department on February 16 2024.
- ◆ An expert talk on 'Molecular Dynamics and simulation' by Dr Naveen Padmadas, Professor, Dept of Bioinformatics, Dr D Y Patil University, Mumbai was organized for the 2020-2024 batch students on 25-01-2024 2:30pm to 4:00 pm.
- ◆ An Expert Talk on Hallmarks of Cancer: Unravelling the fundamental traits that drive oncogenesis by Dr Vipin Gopinath, Associate Professor, Malabar Cancer Centre, Kannur, University of Kerala, was organized jointly by BEATS Association and BRSI for 2020-2024 batch BT students on 31-01-2024.
- ◆ A session on 'Technical Paper writing was conducted for the third year students by

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Research Scholar Ms Pooja Das Manulabai on 01-02-2024.

- ◆ Dr Girish Rasineni, Senior Scientific Manager, Aragen Life Sciences, Telangana delivered an industry expert talk on 'Mass spectrometry implications in Industry and research' was organized jointly by BEATS Association and BRSI on 03-02-2024.
- ◆ An industry interaction was organized jointly by BEATS Association and BRSI on the theme 'Biotech Industry expectations for budding Engineers' by Mr Maniraj CP President, SCIGENICS India Pvt Ltd on 26-02-2024 for the second years and third year BT students in BT seminar hall.
- ◆ Alumnus Mr Ananthu SM, Junior Executive, Biocon, Bengaluru, interacted with the third year students on 'A day in the role of Biopharma production executive' and gave students an insight on how to prepare for their career on 11-03-2024.
- ◆ Workshop on 'Fundamentals of Chemical Engineering' was conducted by BEATS association to the first year BT students on 25-03-2024.
- ◆ ACES (CSE ASSOCIATION)
- ◆ TILTEDU signed an MoU with Sahrdaya College of Engineering & Technology with a focused aim towards training and getting their students industry ready in this exciting field.
- ◆ Cygnus signed an MoU with Sahrdaya College of Engineering & Technology with a focused aim towards consultancy and getting their students industry ready in this exciting field.
- ◆ On February 2nd & 9th, ACES, in collaboration with GDSC Sahrdaya conducted coding classes for 2021-25 batch & 2020-2024 batch.
- ◆ On March 6, 2024, ACES and the UI Path Community joined forces to host a dynamic workshop on Robotic Process Automation (RPA) led by Ms Merin from TCS, the session provided participants with essential insights into RPA's role in modern industries and hands-on experience with the UI Path platform. Attendees left equipped with practical skills and a deeper understanding of automation's potential impact.
- ◆ On February 12th, 2024 a workshop on Augmented Reality/Virtual Reality (AR VR), conducted in partnership with IEEE CS and IEDC, provided attendees with comprehensive insights into the latest advancements and applications of these immersive technologies. The session fostered a deeper understanding of AR/VR's potential across various sectors. Participants left equipped with practical knowledge and inspired to explore the innovative possibilities within the AR/VR landscape.
- ◆ On February 13th and 14th, ACES and IEEE CS co-hosted an immersive workshop on Deep Learning by industry experts, participants delved into advanced concepts and practical applications of Deep Learning technology. The workshop provided a platform for attendees to enhance their skills and explore the cutting-edge developments within the field of artificial intelligence.
- ◆ On February 14th and 15th 2024 Department of CSE organized a two day skill development workshop in association with ASAP Kerala on "Machine learning for 2021-25 batch Students.
- ◆ March 25th, ACES will be collaborating with GDSC and IEEE CS, along with IEDC, to organize a national-level coding competition. This event is not just about showcasing coding prowess; it's a unique opportunity for final year batches to interact with top IT firms for potential hiring.
- ◆ March 27th, ACES will be hosting Association Day, where we'll be unveiling our latest innovation: ACES-Connect. This web-based platform revolutionizes student experience by offering seamless registration, secure storage for certificates, and access to comprehensive study materials and notes. Moreover, students can conveniently connect with faculty members through this platform.





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- ◆ On March 27th, ACES will unveil its groundbreaking initiative: a new startup company owned and managed by ACES, with supervision from IEDC and mentoring from seasoned IT industrialists. This service-based venture aims to amplify student talents, providing invaluable experience and lucrative opportunities for skill development.
- ◆ Anoyisius Joju and Nimble Nixon From 2020-2024 batch CSA got selected for doing a 6 months internship at Mobilexion Technologies Pvt. Ltd.
- ◆ Ebin Jomon From 2020-2024 batch CSA got selected for doing a 6 months internship at Erasmith Technologies Pvt. Ltd.
- ◆ Varghese Thomas and Joshwa Davis from 2020-2024 batch CSA got selected for doing a 3 months internship at Blue Wave Motors.

✦ PACE (CE ASSOCIATION)

- ◆ One Day training Program on Road Safety was organized by the Department of Civil Engineering on 31/01/2024 in collaboration with NATPAC for Driving School Instructors.
- ◆ One Day training Program on Road Safety & Youth Leadership was organized by the Department of Civil Engineering on 01/02/2024 in collaboration with NATPAC for 2020-2024 batch & 2021-25 CE Batches.
- ◆ A Session on Technical Paper Writing was organized by the Dept. of Civil Engineering in collaboration with R & D on 02/02/2024 for 2021-25 CE batch.
- ◆ An Awareness on Software Applications in CE was organized by the Department of Civil Engineering in collaboration with Core Institute on 02/02/2024 for 2021-25 batch & 2022-26 CE Batch Students.
- ◆ A 3-Day Workshop on Primavera was organized by the Department of Civil Engineering from 13/02/2024 to 15/02/2024 in association with IEI & CAD Centre for 2021-25 batch CE 2021-25 Batch.
- ◆ A Session on Tekla Structures - Building Information Modeling Software was organized by the Dept. of Civil Engg. on 05-04-2024 for 2021-25 batch CE 2021-25 Batch. The session was handled by Mr Abin James, Managing Director, Keywords Technologies.

✦ ELECSTA (ECE ASSOCIATION)

- ◆ The Department of ECE organized a Technical Staff Skill Development Program on Project based learning (Core areas : Projects on Arduino, Python and MATLAB) on 26th, 27th and 28th June 2024.
- ◆ The Department of ECE organized a talk on the theme of Just a heads up on 20.03.2024.
- ◆ The Department of ECE organized an Alumni interaction for 2022-26 batch ECE students on 3/2/2024. The session was handled by Ms. Mariya Shaju, Alumni of 2019-23 batch working in QBurst.
- ◆ The Department of ECE organized an Alumni interaction for 2021-25 batch ECE students on 3/2/2024. The session was handled by Ms. Irene Maria Anto of 2016-20 batch working in Wipro.
- ◆ The Department of ECE organized an AI workshop of duration 4 hours for the 2022-26 batch ECE students on 7/2/2024 and 14/2/2024 during 2.30pm-4.20pm. The session was handled by Dr. Nidhin G., Founder Mentornow, AI-ML Trainer ICT Academy.
- ◆ The PCB Workshop using Kicad held at Sahrdaya College of Engineering and Technology was a collaborative effort organized by the IEEE Circuits and Systems Society Student Branch (IEEE CASS SB) and the Department of Electronics and Communication Engineering on 21/2/2024.
- ◆ 10 students of B.Tech ECE (2020-2024 batch) have secured internships in various companies-Digital University Kerala, CDAC-TVM., Geosensing and



EDUCATION IS DEDICATION

Imaging Consultancy, Data Labeller(US based Company), Finez Technologies LLP, Mobilexion Technologies Pvt. Ltd.

✦ AESON (EEE ASSOCIATION)

- ◆ Department of EEE in association with IEEE Control system society conducted One day hands on training session on MATLAB for 2021-25 batch EEE students on 03/02/2024(Saturday)from 9:00am- 4:20 pm.The session was handled by Mr Siva Subramaniyan R, Corell Technologies,Bengaluru.
- ◆ The Department of EEE conducted One day hands on training session on PCB Design for 2022-26 batch EEE students on 16/02/2024(Friday)from 9:00am- 4:20 pm.The session was handled by Mr Midhun ,Electronics CAD Engineer, Design Alpha.
- ◆ Department of EEE conducted Five days hands on training session on AUTOCAD with MEP Electrical for 2020-2024 batch EEE students from 19/02/2024(Monday)-23/02/2024(Friday) from 9:00am- 4:20 pm.The session was handled by Ms Keerhi MS, Ms Muhsina Faisal,CADD Centre Kodungallur.
- ◆ Department of EEE conducted Alumni interaction for 2022-26 batch EEE & 2021-25 batch EEE students on 17/02/2024(Saturday) from 3 pm- 4: 20 pm The session was handled by Mr Midhun, Electronics CAD Engineer,Design Alpha. and Ms Femi, VVDN technologies, Kochi.
- ◆ The Department of EEE in association with IIC & IEEE Control system society conducted a technical talk on Power Transformers Design & Testing for 2022-26 batch, 2021-25 batch & 2020-2024 batch EEE students on 26/03/2024. The session was handled by Mr Reji John, Rtd. DGM, TELK.
- ◆ Shine Shaji,Dixon Joy, Joveena Jose and Angello J Akkara of EEE 2020-2024 batch are placed in Eddy Current Electricals.

RDC@SAHRDAYA

- ◆ The Centre for Research and Development (RDC) of SCET organized a session on Patent filing by Dr. Athira P S, Assistant Professor (Law), National University of Advanced Legal Studies on 21st March 2024.
- ◆ Workshop on Technical Paper writing was conducted for 2021-25 batch students during 30/1/2024 -06/02/2024.
- ◆ Ms. Hariitha C R (CE Dept), Ms. Mayasree O, Ms. Jasmine Johny, Mr. Anoop Lonappan (ASH Dept) selected as PhD scholar in NIT CALICUT and Ms. Siji Thomas selected as PhD scholar in Avinashalingam University.

LIST OF RESEARCH FUNDS SANCTIONED DURING 23-24

Name of the Project	Name of the Principal Investigator/ Co Investigator	Amount Sanctioned (Rs.)	Name of the Funding Agency
Smart bra for early detection of breast cancer	Ms. Minu Davis	2,00,000	Kerala StartUp Mission
Design and Development of point of care device using Biosensor for chloride and Bilirubin detection	Dr. Finto Raphael and Dr. Jeethu Raveendran (BME)	2,00,000	Kerala StartUp Mission
Intelligent Fall Detection vest with integrated airbag system for elderly people	Dr. Reshma Jose(BME)	7,500	IEEE Kerala Chapter
Assistive System for Anesthesiologist	Mr. Jibin Jose (BME)	17,000	Straight Innovations Pvt Ltd.
Research Innovation Programme for women startup (Biotechnology and Biomedical Engineering)	Mr. Jibin Jose (BME) and Dr. Leon Ittiachan (BT)	2,500,000	Kerala StartUp Mission



LIBRARY & NDLI CLUB @ SAHRDAYA

- ◆ Department of Biomedical engineering in association with NDLI Club conducted a Quiz Competition on the Topic "Emerging India" on 6th February 2024.
- ◆ As part of Woman's day, the Department of Electrical and Electronics Engineering in association with NDLI Club organized a Quiz Competition on the topic: "Women in Indian History" on 8th March 2024.
- ◆ Department of Civil Engineering and IEI Student Chapter in association with NDLI Club conducted an article writing competition on the Topic "Influential Women from literature" on 16th March 2024.
- ◆ The Department of Computer science in collaboration with NDLI Club conducted a Treasure Hunt on 3rd April 2024.
- ◆ In connection with World Book Day, Central Library conducted an Idea Contest on the topic "Promoting a Reading Culture" on 19th April 2024.
- ◆ Central Library Organized EBSCO & IEEE Xplore Digital Library Training for the Teaching and Non - Teaching Staffs on 10th May 2024.



- ◆ As part of the National reading day celebration Central Library conducted a Digital Poster Making Competition on 28th June 2024.
- ◆ Department of Electrical and Electronics Engg. in association with NDLI Club conducted an online Quiz competition on Current affairs on 28th March 2024.
- ◆ Department of Civil Engg. and NDLI Club in association with CAAD International Organized an Expert Talk on Scope of BIM and Scholarship opportunities for 2020-2024 batch Civil engineering students on 29 March 2024.

FACULTY EXCELLENCE

◆ BM

- ◆ Dr. Reshma Jose was invited to deliver an expert talk on the theme of Assistive Technologies and Wearables in Young Innovators Programme 6.0 on 17th January 2024.
- ◆ Mr. Jibin Jose was invited as a jury member of STOGOFEST and TACHYON 360 Child Online Protection Awards 2024 held at Sarabhai Institute of Science & Technology, Trivandrum on 12th and 13th Feb 2024.
- ◆ Mr. Jibin Jose served as an expert member in the Judging Panel for the IDEA PITCHING COMPETITION organized by APJ AKTU on 19th June 2024 at Trivandrum.
- ◆ Session on Innovation Development was conducted by IEDC Nodal officer Mr. Jibin Jose and Campus Visit for B.V.Sc. & A.H Students and faculty representatives from Kerala Veterinary and Animal Sciences University, Thrissur on 19/3/2024.

◆ CSE

- ◆ Ms. Geethu Wilson successfully completed NPTEL course on Computer Networks and Internet Protocol (Jan-April 2024), Topper of 5% of this course.
- ◆ Ms. Kavya Clare P Shaji successfully completed nptel course on Computer

Networks and Internet Protocol (Jan-April 2024).

- ◆ Ms. Elsa Raju A successfully completed Nptel course on "Problem Solving Through Programming In C" during (Jan-April 2024) and "Data Structure And Algorithms Using Java" during (June- December 2023).
- ◆ Ms. Uma E S successfully completed nptel course on "Compiler Design" and "Introduction to Programming in C."
- ◆ Mr. Anil Antony has been elevated to IEEE Senior Member.
- ◆ Mr. Anil Antony successfully completed NPTEL course on "Blockchain and its Application".
- ◆ Mr. Anil Antony served as a judge in the Hackathena '24, a prestigious 48-hour National Level Hackathon hosted by the Department of Computer Science, Jyoth Engineering College.

◆ CE

- ◆ Ms Haritha attended a 12 week NPTEL FDP course on Geology and Soil Mechanics organized by IIT Kanpur and has secured an Elite certificate.
- ◆ Dr. Drisya M was appointed as the Reviewer in the 1st International conference on 'Recent Advances in Infrastructure Development (RAID 2024)' organized by the Department of Civil Engineering, National Institute of Technology Calicut during February 12-13, 2024.
- ◆ Dr. Drisya M was appointed as the Reviewer in the International conference SECON'24 held during June 05-07, 2024, organized by the Department of Civil Engineering, Federal Institute of Science And Technology (FISAT)®, Ernakulam, Kerala, India, in collaboration with the ICI - Kochi Chapter, IEI - Kochi Local Centre, IGBC - Student Chapter, ISTE FISAT Chapter, and BAI - Angamaly Centre.
- ◆ Dr. Drisya M was appointed as the Session Chair in the International conference SECON'24 held during June 05-07, 2024, organized by the Department of Civil Engineering, Federal Institute of Science And Technology (FISAT)®, Ernakulam, Kerala, India, in collaboration with the ICI - Kochi Chapter, IEI - Kochi Local Centre, IGBC - Student Chapter, ISTE FISAT Chapter, and BAI - Angamaly Centre.
- ◆ Ms Ragi C Ravindran was appointed as a Reviewer for the 'International Conference on Research Advances in Engg and Technology' (ITechCET 2024) held during 24th and 25th May 2024, organized by Musaliar College of Engg and Technology, Pathanamthitta, Kerala, India.

- ◆ Ms Sujana R was appointed as a Reviewer for the 'International Conference on Research Advances in Engg and Technology' (ITechCET 2024) held during 24th and 25th May 2024, organized by Musaliar College of Engg and Technology, Pathanamthitta, Kerala, India.

◆ EEE

- ◆ Mr ADARSH S R, Assistant Professor, EEE Department, successfully completed NPTEL course on Robotics & Control: Theory & Practice with Certification.
- ◆ Dr. V Vijikala, Associate professor, EEE Department, is certified as a facilitator of AI for Future Workforce Program in India on April 18, 2024.
- ◆ Mr. Sebin Davis K, Assistant Professor, EEE Department, is certified as a facilitator of AI for Future Workforce Program in India on April 18, 2024.
- ◆ Mr. Sebin Davis K, Assistant Professor, EEE Department achieved Electrical Supervisor license from the Kerala State Electricity Licensing Board, authorized for all LT/MV installations up to 150kW and generators up to 150kVA.

PAPER PUBLICATIONS & PRESENTATIONS BY FACULTY MEMBERS

- ◆ Sumi Babu, Ittiachen, L. Biogenic silver nanoparticle-coated low-density polyethylene film with antibacterial and antioxidant properties. J Coat Technol Res (2024). <https://doi.org/10.1007/s11998-023-00903-2>.
- ◆ Hannah JH, Christopher CS, King GR. Combined Unit and CNN image classification model for COVID disease detection using CXR/CT imaging. Journal of Intelligent & Fuzzy Systems. (Preprint):1-7. <https://doi.org/10.3233/JIFS-230523>



- ◆ Francis, A., Pandian, S., Sagayam, K. et al. Early detection of Alzheimer's disease using squeeze and excitation network with local binary pattern descriptor. *Pattern Anal Applic* 27, 54 (2024). <https://doi.org/10.1007/s10044-024-01280-1>
- ◆ Jis Paul, Design of auto adjustable CPR assistive device for non-expertise usability scenarios, *E3S Web of Conferences* 529, 04015 (2024), <https://doi.org/10.1051/e3sconf/202452904015>
- ◆ Jayakrishnan S., "Knee Exobrace: Enhancing knee support innovative brace for elderly individuals with osteoarthritis alleviate joint load" Indian National Science Academy Sponsored conference on "Recent Trends in Technology Innovation of Artificial Intelligence in Data Science and Health care Analytics (AIDSHC - 24)" organised by Sree Ramakrishna Engineering College, Coimbatore
- ◆ Ms. Anly Antony M, "Apparel Customization using Generative AI Apparel Customization using Generative AI", IEEE International Conference on Advanced Computing and Communication Systems (ICACCS 2024), 14-15 March 2024
- ◆ Uma E S, Automatic Billing cart for shopping, IEEE International Conference on Advanced Computing and Communication Systems (ICACCS 2024), 14-15 March 2024.
- ◆ Jasmy Davies, VEye- AI Assistant, IEEE International Conference on Advanced Computing and Communication Systems (ICACCS 2024), 14-15 March 2024.
- ◆ Dr. Manishankar S, Verification and Validation of Product warranty using Block chain, IEEE International Conference on Advanced Computing and Communication Systems (ICACCS 2024), 14-15 March 2024.
- ◆ Rehna Baby Joseph, Divya R, Neptune - An Integrated Social Media Platform, Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE), 22.23 February 2024
- ◆ Dr. Drisya M, Aiswarya V K, Amal Krishna C S, Antony Senjo & Gopika P P, Evaluation of Traffic Congestion at Ollur intersection in Thrissur District Using Simulation, Recent Advances in Infrastructure Development (RAID 2024), NITC
- ◆ Dr. Drisya M, Albin Raphel, Anna Paulson, Alfred George and Anneena Shajan, Safety evaluation of nonurban roads, International Conference on Logistics, Supply Chain and Transportation (ICLST) 2024, NITC
- ◆ Ms. Lavina Joseph, Ms. Minu C Davis, Ms. Supriya Mary Sunil, Ms. Artahy M and Ms. Jayalakshmi P K presented a paper titled "Communication aid for deaf blind" in the ICACCES'24 (International Conference on Advanced Computing, Communication and Electrical system) held on 22-23rd February 2024 at KMEA Engineering College, Kerala.
- ◆ Mr. Jayakrishnan S along with his project group presented a paper titled "Enhancing Knee support" in the ICACCES'24 (International Conference on Advanced Computing, Communication and Electrical system) held on 22-23rd February 2024 at KMEA Engineering College, Kerala.
- ◆ Dr. Drisya M, has successfully presented the paper titled Evaluation of Traffic Congestion at Ollur intersection in Thrissur District Using Simulation, Paper ID RAID048 authored by Drisya Manghat, Aiswarya V K, Amal Krishna C S, Antony Senjo & Gopika P P at the 1st International conference 'Recent Advances in Infrastructure Development (RAID 2024)' organized by the Department of Civil Engineering, National Institute of Technology Calicut during February 12-13, 2024.
- ◆ Dr. Drisya M, has co-authored the paper titled Safety evaluation of nonurban roads, presented in the International Conference on Logistics, Supply Chain and Transportation (ICLST) 2024 organized by Centre of Excellence in Logistics and Supply Chain Management (CoELSCM), National Institute of Technology Calicut during May 22-24, 2024.
- ◆ Ms. Uma E S, Published a paper on "Smartcart: Automatic Billing Cart for shopping", International Conference on Advanced Computing and Communication Systems-ICACCS 2024.
- ◆ Mr. Anil Antony, published a paper in the International Journal of Intelligent Systems



and Application on "African Vulture Optimization with Deep Learning based Geographical Information Analytics for Land Cover Segmentation and Classification".

- ◆ Mr. Anil Antony, published a paper on "Unveiling the Landscape: A Comparative Study of U-Net Models for Geographical Features Segmentation", International Conference on Data Science, Computation and Security.
- ◆ Mr. Anil Antony, published a book titled "Introduction to IoT" by San International.
- ◆ Dr. Sukhila Krishnan published a review paper on "Biosensors for Carcinoembryonic Antigen Detection for Future", Sustainable Chemical Engineering.

WORKSHOPS & TRAININGS ATTENDED BY FACULTY MEMBERS

- ◆ **BM**
 - ◆ Mr. Jibin Jose and Dr. Finto Raphel attended an Online One Week Short Term Course on "Cutting Edge Advancements in Biomedical Engineering (CABE-2024): Lab to Industry" conducted by the Department of Instrumentation and Control Engineering, Dr. B.R Ambedkar National Institute of Technology Jalandhar, Punjab from January 8-12, 2024.
 - ◆ Mr. Jayakrishnan attended a Five Days Online FDP on "AI Based Wearable Biosensing Devices for Healthcare Analytics" organized by the Department of Biomedical Engineering, Sri Shanmugha College of Engineering and Technology from 8/1/2024 to 12/1/2024.
 - ◆ Ms. Sony N.S participated in a five days training program on Deep Learning Theory and Practice from 29/1/2024 to 03/2/2024 held at GEC, Thrissur.
- ◆ **BT**
 - ◆ Ms Marria C Cyriac successfully completed NPTEL-AICTE FDP program on "One Health" during Jan 2024-April 2024.
 - ◆ Ms Salini P J successfully completed NPTEL-AICTE FDP program on "Physico- chemical processes for Wastewater Treatment" during Jan 2024-April 2024.
 - ◆ Dr Uma Krishnakumar, Ms Smeera Thomas and Ms Salini P J attended a five day online Faculty and Staff development Programme on "Soft skills for professional Excellence" from 10th to 14th June 2024, organized by department of Chemical Engineering, Govt. Engineering College, Kozhikode.
- ◆ **ECE**
 - ◆ Dr Ambily Francis and Ms. Binet Rose Devassy attended a five day ATAL online FDP on "Exploring explainable and Generative AI in contemporary Machine Learning" from 15/01/2024 to 20/01/2024.
 - ◆ Ms. Chinchu Jose, Ms. Minu Johny, Dr G R Gnana King Dr Ambily Francis, Dr. Vishnu Rajan, Ms. Binet Rose Devassy, Dr. Anett Antony and Ms. Anju Babu attended the FDP on Mentor Mentee Relationship and academic student mentoring, organized by IQAC, Sahrdaya College of Engineering and Technology in association with ISTE on 24 January 2024.
 - ◆ Ms. Vidyamol K has participated in the FDP on CHIPCRAFT, A Workshop on Digital IC Design using Openroad organized by IEEE CASS SBC, Muthoot Institute of Technology and Science, Ernakulam on 08/04/2024.
 - ◆ Ms. Vidyamol K has participated in the FDP on Accelerating Intelligence: Unleashing AI with FPGA organized by IEEE CASS SBC, MITs, Ernakulam in collaboration with CoreEL Technologies on 05/04/2024.
 - ◆ Ms. Vidyamol K attended a five day ATAL online FDP on "Unleashing the



potential of System-on-chip and its architecture” from 15/01/24 to 20/01/24.

- ◆ Ms. Naiji Joseph and Ms. Siji Joseph attended a five day online FDP on “Recent Trends and Challenges in Medical Image Analysis- Python Perspective” organised by CMRIT, Bengaluru from 18/03/2024-22/03/2024.
- ◆ Dr G R Gnana King attended a five day ATAL online FDP on “Research Challenges in 5G/6G wireless Communications and Applications” from 04/12/2023-09/12/2023.
- ◆ Dr G R Gnana King has attended NPTEL-AICTE FDP on “Patent Drafting for Beginners” during January- February 2024.
- ◆ Dr. Vishnu Rajan successfully completed 8 week online Internshala training on Android App Development.
- ◆ Ms. Anju Babu has attended NPTEL-AICTE FDP on “Effective Engineering Teaching in Practice” during January- February 2024.
- ◆ Ms. Reshma P S has attended a 12 week NPTEL course on Communication Networks by International Institute of Information Technology Bangalore.
- ◆ Ms. Reshma P S has attended a 12 week NPTEL course on Foundations of Cryptography by IIT Kharagpur and has secured an elite certificate.

◆ CSE

- ◆ Dr. Manishankar S, Mr. Anil Antony, Ms. Anly Antony M, Ms. Rehna Baby Joseph, Ms. Roshni R Menon got certified as facilitators for AI future Workforce programme by Intel.
- ◆ Dr. Manishankar S, Ms. Priya K V, Ms. Anly Antony, Ms. Elsa Raju, Ms. Geethu wilson, Ms. Kavya Clare P Shaji, Ms. Rehna Baby Joseph, Ms. Sreetha E S and Ms. Uma E S attended 7 days FDP on “Latest Trend and Techniques in Software Engineering: An Industry Perspective” during 20th - 27th January 2024 at CHRIST University, Bangalore.
- ◆ Ms. Kavya Clare P Shaji and Ms. Uma E S attended FDP on “Universal Human Values” from 20/06/2024 to 22/06/2024 held at IES College of Engineering.
- ◆ Ms. Anugraha, Mr. Sreejith and Ms. Sruthy attended FDP on “Natural language Processing” from 24/06/2024 to 28/06/2024 held at Christ College of Engineering.

◆ CE

- ◆ Ms. Haritha C R has successfully completed the 5 Day Faculty Development Program on GIS and Geoinformatics: Emerging Spatial Technology For Civil Engineers from 15th January to 19th January 2024, at Government Engineering College, Thrissur.
- ◆ Ms Ragi C Ravindran attended a 3 Day FDP on Harmony in Structures: Bridging Vastu & Civil Engineering from 22/01/2024 to 24/01/2024 organized by the Department of Civil Engineering in collaboration with ISTE Faculty Chapter, Vidya Academy of Science & Technology, Thrissur.
- ◆ Dr. Drisya M has participated in the FDP on Recent Advances in Transportation Geotechnics (ReATraG'24) from 15/01/2024 to 20/01/2024, held at the Dept. of Civil Engineering, CET organized by the College of Engineering Trivandrum.
- ◆ Dr. Drisya M has attended the FDP on Mentor Mentee Relationship and academic student mentoring, organized by IQAC, Sahrdaya College of Engineering and Technology in association with ISTE on 24 January 2024.
- ◆ Ms Sujana R attended a 6 day ATAL FDP on Geo-Environmental Aspects of Engineered Landfills organized by Department of Civil Engineering, NSS COLLEGE OF ENGINEERING, Palakkad from 08/01/2024 to 13/01/2024.

◆ EEE

- ◆ Mr Adarsh S R has attended NPTEL-AICTE FDP on “Robotics & Control: Theory & Practice” during January - March 2024.
- ◆ Mr Adarsh S R attended a Five days Faculty Development Programme on “Unleashing the Sustainable Developments and Future Trends in Electrical Engg.” by Mangalam college of Engineering & Technology from 29th January to 2nd February 2024.
- ◆ Mr Adarsh S R, Mr. Sreekanth S, Ms. Drisya K Sasi, Ms. Neethu John and Ms. Maria Rose K J attended a Five days ATAL Faculty Development Programme on “Innovative Approach to renewable Energy Education” at Gregorian Institute of Technology from 12/02/2024 to 17/02/2024.
- ◆ Mr Adarsh S R attended a Five days Faculty Development Programme on “RECENT TRENDS IN BIOMEDICAL APPLICATIONS USING AI”, organized by Department of Biomedical Engineering, in association with.
- ◆ Centre for Faculty Development, between 29-01-2024 to 02-02-2024, St. Peters Institute of Higher Education and Research, Avadi, Chennai.
- ◆ Ms. Drisya K Sasi, Ms. Maria Rose K J, Mr Sreekanth S and Ms. Neethu John attended a five day FDP on “Opportunities of Power Electronics in Smart Grid, Renewable Energy Resources and Electric Vehicles”, organized by the Department of Electrical and Electronics Engineering of SCMS School of Engineering & Technology from 26/02/2024 to 01/03/2024.
- ◆ Ms. Drisya K Sasi attended a Five days Faculty Development Programme on “Recent Trends in Biomedical Applications using AI”, organized by Department of Biomedical Engineering, in association with Centre for Faculty Development, between 29-01-2024 to 02-02-2024, at St. Peters Institute of Higher Education and Research, Avadi, Chennai.
- ◆ Ms. Maria Rose K J attended a Five days Faculty Development Programme on “Unleashing the Sustainable Developments and Future Trends in Electrical Engg.” by Mangalam college of Engg. & Technology from 29th January to 2nd February 2024.
- ◆ Mr. Sreekanth S attended a Five days Faculty Development Programme on “Unleashing the Sustainable Developments and Future Trends in Electrical Engineering” by Mangalam college of Engineering & Technology from 29th January to 2nd February 2024.
- ◆ Mr. Sreekanth S attended a Five days ATAL Faculty Development Programme on “Electric Vehicles: Technologies & Challenges at Albertian Institute of Science and Technology (AISAT)- TECHNICAL CAMPUS from 29/01/2024 to 03/02/2024.
- ◆ Ms. Neethu John attended a Five days ATAL Faculty Development Programme on “Electric Vehicles: Technologies & Challenges at Albertian Institute of Science and Technology (AISAT)- TECHNICAL CAMPUS from 29/01/2024 to 03/02/2024.

◆ ASH

- ◆ Dr. Sukhila Krishnan, Ms. Mayasree O and Ms. Anu Jose attended the intel training session on AI for Future Workforce Program.
- ◆ Dr Sukhila Krishnan and Ms. Mayasree O undergone the NPTEL course in Characterization of Polymers, Elastomers and Composites by IIT Kharagpur.
- ◆ Dr. Sukhila Krishnan, Ms. Jemcy Antony, Ms. Swapna Joseph, Ms. Savitha Paul, Ms. Rani Thomas, Ms. Jimi K J, Jasmine Johny, Ms. Lickny I, Ms. Vini Valsan, Ms. Mayasree O and Ms. Anu Jose attended the FDP on Mentor-mentee Relationship and academic student mentoring.
- ◆ Ms. Mayasree O and Ms. Anu Jose undergone the NPTEL course in Accreditation and outcome based learning.
- ◆ Ms. Jimi K J undergone the NPTEL course in Electronic Theory of Solids.
- ◆ Ms. Mayasree O, Ms. Siji Thomas, Ms. Vini Valsan attended the FDP on “Introduction to Universal Human Values” in IES, Chittilappilly.

