PRINCIPAL'S REPORT FOR THE YEAR 2024-25

1.0 Introduction:

The President of IDET Msgr. Wilson Erathara, Rev. Fr. Davis Chiramel, Founder of ACTS, Rev. Fr. Dr. Anto Chungath, Executive Director, Rev. Fr. Anil Puthussery, Finance Officer, Dr. Leon Ittiachen, Director, Dr. Sudha George Valavi, Joint Director, Mr. Francis Kundukulam, PTWA Vice President, Dr. Vishnu Rajan, Faculty Advisor to Student Council, Mr. Albin K Shajan, General Secretary Student Council, other distinguished guests, Rev. fathers, Rev. sisters, Parents, Staff, and my dear students, Ladies & Gentlemen.

We are happy to state that 19 batches of B.Tech & 10 batches of M.Tech students have graduated successfully from Sahrdaya. With the Blessings from Heavenly Patron "Sacred Heart of Jesus" and with the Guidance and support of our Chairman, Trustees, Governing Body, Academic Council Members, Faculty & Staff, Parents, Well Wishers, Staff and Students, we could continue to maintain a very good reputation among the self-financing Colleges in the state.

Welcome to Fr. Anil Puthussery as our new Finance Officer and Fr. Dr. Binoy Nareparambil as our new Hostel Warden.

2.0 Academic Activities:

- The College was conferred with autonomous status on 24th April 2024, and as per the UGC norms, The Governing Body, Academic council, Finance Committee and BoS of various Departments were constituted.
- Our institution successfully conducted its First Academic Council Meeting on 31st August 2024, followed by the Second Academic Council Meeting on 1st February 2025. The First Governing Body Meeting was held on 6th September 2024, with the Second Governing Body Meeting taking place on 13th February 2025
- The Academic Regulations, Curricula and Syllabus for the first autonomous batch was released.
- 237 final-year students are undergoing internships at various companies and organisations.
- Admission for the academic year 2024-25 started during the month of May 2024. Total 494 students got admitted for BTech (BM-63, BT-61, CSE-251, EC-63, EEE-32, CE-24) and 6 students for M.Tech branches(CSE-3,IBT-2 & ES-1)
- Memorandums of Understanding (MoUs) Signed: On February 3, 2025, the college signed an MoU with Medzell, a leading MedTech company, for the development of a breast cancer diagnostic device. Additionally, on January 16, 2025, partnerships were established with Kerala Electrical & Allied Engineering Co. Ltd. (KEL), Waves Electronics Private Limited (WEPL), and IIT Palakkad to promote industry-academic collaborations. Strengthening its global academic ties, the institution also signed an MoU with Whitireia & WelTec, New Zealand, enabling the recognition of its PG Diploma as equivalent to the first year of their M.Tech program.

- The Self-Assessment Report (SAR) for B.Tech in EEE was submitted on 30/12/2024.
- The NBA peer team visit is expected in March 2025.

2.1 Results: The pass percentage of B.Tech 2020-24 batch in various departments under APJ Abdul Kalam Kerala Technological University are as follows:-

Batch	Semester	BM	BT	CE	CSE	ECE	EEE	Overall pass percentage
2020-2024	S1-S8	77.27%	79.30%	64%	78.12%	47.27%	42.11%	70.17%

2.2: M.Tech results are as follows:

Batch	SEMESTER	IBT	CS	ES
2022-2024	S1- S4	100%	100%	100 %

3.0 Placements

- The placement statistics of 2020-2024 batch is shown below

Dept	Total Students in Final Year	Eligible Students	Placements	Higher Studies	Entrepreneur	Eligible Students Placed	Ineligible Students Placed	Total Placements & H.S (eligible + Ineligible)	Overall Placement (eligible + Ineligible) %
BME	66	28	26	1	0	27	30	57/58	98%
BT	59	38	23	12	0	35	9	44/47	94%
CE	25	16	13	2	0	15	2	17/18	94%
CSE	128	89	62	3	0	65	15	80/104	77%
ECE	55	17	7	4	0	11	16	27/33	82%
EEE	19	8	8	0	0	8	7	15/15	100%
Total	352	198	141	22	0	163	79	242/275	88%

Placement Percentage from Total students : 69%

4.0 Faculty and Staff

We are proud of our Faculty and staff for their dedication and commitment. 105 faculty members on roll of which 31 are with Ph.D . We have 29 Lab staff and 20 office staff.

4.1 Faculty Achievements

BM:

- Dr. Reshma Jose, Mr. Jibin Jose, Dr. Jis Paul and Ms. Sony N.S successfully completed the certification program on ISO 13485: 2016- Lead Auditor Training Program on Medical Devices Quality Management System from 29/6/24 to 7/7/24.
- Dr. Reshma Jose. Ms. Sony N.S and Mr. Jibin Jose served as evaluators for District Level Evaluations of Young Innovators Programme YIP 5.0 and 6.0 conducted on 25th July 2024.
- Dr. Reshma Jose served as one among the expert committee members of the Mock Audit for NBA accreditation visit at TKMIT College, Kollam on 8/8/2024.
- Mr. Jibin Jose served as a resource person for the Start Up Bootcamp organized by APJAKTU from 18/7/24 to 20/7/24 at Maker Village, Trivandrum.
- Dr. Reshma Jose successfully completed the NPTEL Online Certification course on Technical Communication for Engineers with an Elite certificate.
- Mr. Jibin Jose delivered a talk on Assistive Technology and Wearables on 19th August 2024 as part of YIP IDEA ENGINE conducted by K-DISC.
- Mr. Jayakrishnan S and Ms. Lavina Joseph were awarded with trophy and certificate for securing 100% pass in the courses Biomaterials and Artificial Organs and Implants for S8 University Examinations.
- Dr. Jis Paul served as a resource person for the ATAL Faculty Development Program titled "Wearable Device: Challenges and Innovations" on 23/10/24 at Amal Jyothi College of Engineering, Amal Jyothi College of Engineering, Kanjirappally.
- Mr. Jibin Jose served as a reviewer for reviewing the proposals for the Gandhian Young Technological Innovation (GYTI) Awards 2023.
- Dr. Reshma Jose and Mr. Jibin Jose attended the 3 Days HUDDLE GLOBAL 2024 organised by Kerala StartUp Mission on 28th, 29th and 30th of November 2024. Dr. Reshma Jose was awarded certificate of appreciation for successfully completing the project titled communicative and assistive device for differently abled children under the Research Innovation Program For Women Startups of Kerala Startup Mission and implemented by Sahrdaya College of Engineering and Technology and Sahrdaya TBII Hub.
- The project titled A Novel wearable neck band for sleep apnea diagnosis and monitoring guided by Ms. Minu Davis was selected from the first round of evaluation for ECE branch for CERD Student Project funding 2024. The group members are Alex Anto, Ebin Wilson, Sana Mariyam and Anatt P Davi.
- Dr. Reshma Jose, Ms. Jayalakshmi P.K and Mr. Jayakrishnan S presented a paper titled Detection of Anemia from Conjunctival Palor and Nail Color using Image Processing in the International Conference on advancement in renewable energy and intelligent system 2024 at jyothi Engineering College, Thrissur.
- Dr. Jis Paul, Ms. Minu Davis and Ms. Jayalakshmi P.K successfully earned mentor certificates from NPTEL. Dr. Jis Paul and Ms. Minu Davis are the top scorer in points in the whole college and honoured with a badge along with the certificate. Miss. Jayalakshmi P.K was among the three who offered a core course for NPTEL and earned the certificate.

- Ms. [Sony N S](#)became a certified Facilitator of AI for Future WorkForce Program in India.
- Dr. Jeethu Raveendran was granted Indian patent for " A Nanomaterial- Based Electrochemical Sensor for the Detection of Anticancer Drug Molecules".
- Department of Biomedical Engineering and Medzell signed an MoU for the Development of a novel Early Breast Cancer Screening Device Red light and Near InfraRed Light. The student project team includes Alvin Reji, Athira K.B, Hareesh V and Mekha P from Biomedical Department and the faculty supervisors are Ms. Supriya May Sunil and Mr. Jibin Jose.

BT:

- Dr.Ranimol G, Assistant Professor in Biotechnology Department completed her PhD defense from Sathyabhama Institute of Science and Technology.
- Dr. Ambili Mechoor published a book titled 'Molecular Tools for Disease Detection – Trends and Developments'by Cambridge Scholars Publishing in July 2024.
- A student project project under the guidance of Ms. Marria C Cyriac was granted a financial aid of Rs.2,00,000/- from KSUM for prototype development of Hibi- Probiotic based chocolates.
- Dr. Amitha Joy successfully completed NPTEL-AICTE FDP program on "Cell Culture Technologies" during Aug-Oct 2024 from IIT Kanpur.
- Ms Marria C Cyriac successfully completed NPTEL-AICTE FDP program on"One Health" during 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. P Praveena successfully completed NPTEL-AICTE FDP program on "Cell Culture Technologies" during Aug-Oct 2024 from IIT Kanpur.
- Dr. Ranimol G successfully completed NPTEL-AICTE FDP program on "Genetic Engg. : Theory and Application" Jul-Oct 2024 (12 week) by IIT Guwahati.
- Dr.Ambili Mechoor and Ms Steny Mary Anto attended an Entrepreneurship development workshop on   17/07/2024 to 23/08/2024 by Wadhwani Entrepreneur Network(WEN), Wadhwani Foundation and won the Ignite X certification as 'Facilitator'.
- Dr. P. Praveena served as a reviewer for 'Iranian Journal of Chemistry and Chemical Engineering' (SCIE) during 2024-25.
- Dr.Ambili Mechoor and Dr. Uma Krishnakumar got as certified Facilitator of AI for Future WorkForce Program in India.
- Dr. Leon Ittiachen(BT) and Dr. Manishankar S(CSE), represented Sahrdaya in AI Future Work Symposium organized by Intel in Bangalore.
- Dr. Dhanya Ghangadharan & Ms Pooja Das Manjulabhai was granted Indian patent for the innovation entitled " A Nanomaterial- Based Electrochemical Sensor for the Detection of Anticancer Drug Molecules".

CE:

- Ms. Haritha C R has got admission for Phd program in NIT Calicut.
- Ms. Gokila Chandran has got admission for Phd program in MIT, Manipal.

- Mr. Sunny C P Served as the Technical Expert in the interview panel for the Overseer selection in the Velukkara Grama Panchayath, LSGD office in February 2025.
- Mr. Sunny C P delivered the expert lecture on Concrete Mix Design at Thiagarajar Polytechnic College, Alagappanagar on 10/12/2024.
- Ms. Mini M & Ms Haritha C R have successfully completed the Faculty Development Program (FDP) for delivering the Wadhwani Course conducted by Wadhwani Entrepreneur Network (WEN), Wadhwani Foundation, from 17th July, 2024 to 23rd August, 2024.
- Dr. Drisya M, Ms. Ragi C Ravindran and Ms. Sujana R became the certified Facilitator of AI for Future WorkForce Program in India.
- Ms. Haritha C R has successfully completed a 12 week NPTEL course on Ground Improvement organized by IIT Kharagpur and secured Gold certificate with a consolidated score of 91%.
- Ms Ragi C Ravindran has successfully completed a 4 week NPTEL course on Technical Communication for Engineers organized by IIT Kharagpur and secured an Elite Silver certificate with a consolidated score of 87%.
- Ms. Haritha C R has successfully completed the PALS FDP program on Virtual Lab.
- Ms. Gokila Chandran has successfully completed a 12 week NPTEL course on Advanced Reinforced Concrete Design organized by IIT Hyderabad.
- Dr. Drisya M has successfully completed a 4 week NPTEL course on Technical Communication for Engineers organized by IIT Kharagpur and secured an Elite Silver and FDP certificate.
- Dr. Drisya M and Ms. Sujana R successfully earned mentor certificates from NPTEL.
- Dr. Drisya M received the Active SPOC award for the Local Chapter 1115 during July - December 2024 from NPTEL
- 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.

CS:

- Dr. Leon Itteachen and Dr. Manishankar S, represented Sahrdaya in AI Future Work Symposium organized by Intel in Bangalore.
- Dr. Manishankar S Inaugurated the Science Exhibition at Don Bosco School Irinjalakuda

- Dr, Manishankar S is selected as a Technical Programme committee Chair of International Conference on Communications, Information System and Computer Engineering, China 2025
- Dr. Manishankar S, served as Jury member for Darsana Ignite 2024 is an annual competition fostering innovation and startup culture among college going students of Kerala.
- Dr. Manishankar S was recognized as Research Supervisor in APJ Abdul Kalam Technological University
- Dr. Sreeraj was recognized as Co- Supervisor in Manipal Academy of Higher Education.
- Dr Sreeraj R, Mr Anil Antony were elevated as Senior Member in IEEE
- Ms. Priya K V was awarded with Doctorate Degree in December 2024
- Dr. Sreeraj was selected secretary in IEEE Robotic and Automation Society Kerala Section
- Dr. Manishankar S, Mr. Anil Antony, Ms. Anly Antony, Ms. Roshni R Menon, Ms. Rehna Baby Joseph a certified Facilitator of AI for Future WorkForce Program in India
  Mr. Anil Antony Served as Jury Member 'Hackathena' National Hackathon conducted by Jyothi Engineering College
- Ms. Sruthy Sukumaran, Ms. Uma E S, Ms. Megha K K, Ms. Kavya Clare Shaji got Certified as Trainers by Wadhwani Foundation
- Dr. Manishankar S, Dr. Krishnadas J, Dr. Priya K V, Mr. Anil Antony, Ms. Anly Antony, Ms. Rehna Baby Joseph, Ms. Minnuja Shelly, Ms. Kavya Clare Shaji served as Jury Members for MSIGMA IEEE TECH BURST 2024 Project Exhibition conducted by IEEE in collaboration with MSIGMA
- Dr. Asha S and Dr. Manishankar S along with a Team of First year students developed a Educational BOT for Manakulangara Krishnavilasam School.
- Dr.Asha S has successfully completed the NPTEL "Joy of Computing using python" with Elite Silver.
- . Ms. Rehna Baby Joseph earned successfully earned mentor certificates from NPTEL
- Dr. Manishankar S completed successfully completed online non-credit course authorized by Google Cloud Networking and offered through Coursera
- Mr. Anil Antony , successfully completed the course Introduction to Data Science offered by Infosys Springboard on February 16, 2025.

- Mr. Anil Antony, Dr. Manishankar S, Ms. Anly Antony completed a consultancy project design an Application in collaboration with Cygnus Technologies

- Mr. Anil Antony and Dr. Manishankar S , received the Best IEEE student Branch award at IEEE Kerala Section Awards.

- Dr. Manishankar S, Dr. Krishnadas J, Ms.Anly Antony M, Ms.Rehna Baby Joseph and Mr.Sreejith P S was granted UK patent for " Traffic AI Router".

- Dr. Asha S mentored The team comprising Abel Jose Menachery (S5 CSA), Adithya KB (S5 CSA), and Angena Jaison (S5 CSA), was selected as one of the top 100 finalist teams in the IBM TechXchange Pre-conference Hackathon. The team has also won a complimentary pass to the IBM TechXchange Conference 2024, which will be held in Las Vegas, Nevada, from October 21-24.

- Dr. Sreeraj R and Dr. Asha S project titled " Enhancing DNA sequence storing efficiency with Quantum Computing Techniques" has selected for FRSG 2024-25.

- Dr. Sreeraj. R served as a resource person for the one day training on OpenIOT organized by Adishankara Institute of Science and Technology, Kalady

- Dr. Sreeraj R served as a resource person for the FDP on the topic "Reinforcement Learning" organized by Mahaguru Institute of Science and Technology.

- Dr. Sreeraj. R served as a resource person for the Technical Talk on "Python for Mechanical Engineers - Machine Design and Visualizing Fluid Flows" organized by Universal Engineering College, Thrissur.

ECE:
- Dr. Vishnu Rajan, Dr. Ambily Francis, Ms. Binet Rose Devassy, Ms. Anju Babu, Ms. Vidyamol K and Ms. Chinchu Jose became a certified Facilitator of AI for Future WorkForce Program in India.
- Dr. Vishnu Rajan, Dr. Ambily Francis and Ms. Anju Babu successfully earned mentor certificates from NPTEL.
- Ms. Naiji Joseph and Ms. Siji Joseph successfully completed NPTEL online course with ELITE certification. Ms. Reshma P S successfully completed NPTEL online course
- Ms. Anju Babu successfully completed the NPTEL Online Certification course on Technical Communication for Engineers with an Elite +Silver certificate.
- Dr. Vishnu Rajan and Dr. Jensha Haennah successfully completed online non-credit course authorized by Google Cloud and offered through Coursera
- Dr. G.R. Gnana King received the Academic Excellence award during the year 2024.

- Dr. G. R. Gnana King is serving as an Advisory/Technical Program Committee Member for the 5th International Conference on Smart Electronics and Communication (ICOSEC 2024), organized by Kongunadu College of Engineering and Technology from September 18-20, 2024.

- Dr. G. R. Gnana King, Dr. Ambily Francis, and Ms. VidyaMol have been elevated to Senior Member status in IEEE.
- Dr. Jensha Haennah J H has been recognized as a Ph.D. Supervisor at APJ Abdul Kalam Technological University (KTU).

- Dr.Jensha Haennah J H , participated in the Two-day Industry-Assisted Online Faculty Development Programme on DEMYSTIFYING AI AND DATA SCIENCE organized by PALS and Meritus.AI on 23rd and 24th January 2025.

- Dr. Jensha Haennah J H , successfully completed the course Introduction to Data Science offered by Infosys Springboard on February 16, 2025.

- Dr. Jensha Haennah J H , successfully completed the course Introduction to Artificial Intelligence offered by Infosys Springboard on February 17, 2025.

- Ms. Siji Joseph, Ms. Reshma P S, Ms. Dr. Jensha Haennah J H and Dr.Anett Antony successfully completed the Self-paced training course MATLAB Onramp.

- Ms. Reshma P S successfully completed Self-paced training course Introduction to Symbolic Math with MATLAB.

- Dr. G R Gnana King successfully completed the course Introduction to Data Science offered by Infosys Springboard on February 16, 2025.

- Dr. G R Gnana King successfully completed the course Introduction to Artificial Intelligence offered by Infosys Springboard on February 17, 2025.

- Dr. Vishnu Rajan completed a consultancy project - "IoT-based solution to control closed-space drip irrigation" under the Center for IOT & Robotics Research.
- Dr. Vishnu Rajan handled a Guest Lecture on Google for Developers: Decoding the program at Providence College of Engineering, Chengannur
- Dr. Vishnu Rajan conducted a 40 hour internship session for UG students from 20 different Universities in India as a part of the Great Indian Hackathon 2024
- Dr. Vishnu Rajan along with his student group, Leno Anand, Dominic P E are the YIP 4.0 District Level winners with a cash
- Dr. Vishnu Rajan handled a session on generative AI at the Faculty Development Program on Computational Techniques & AI Applications in Signal Processing at Nehru Group of Institutions, Palakkad

- Dr. Ambily Francis has served as an evaluator of paper presentation for an event held in the Young Innovators Summit 2024 at Government polytechnic college Kalamassery

- Dr. Ambily Francis served as a resource person for FIERA 2025, science exhibition held at MAPS
- Ms. Reshma P S and Ms. Siji Joseph successfully completed self paced training course MATLAB on RAMP and Introduction to Symbolic Math with MATLAB
- Ms. Vidyamol K and Dr. Anett Antony completed a Faculty Development Program (FDP) for delivering the Wadhwani Course
- Dr. Vishnu Rajan is the chief coordinator of a technical symposium, the Great Indian Hackathon (www.greatindianhackathon.in) which is a collaboration between Sahrdaya and the Google for Developers Community, India. 25 + Colleges from across India including IITs and NITs participated in the event, and we are waiting for the results.

- Dr. Ambily Francis has been recognized as PhD co-supervisor by Manipal Academy of Higher Education, Manipal.

EEE:

- Mr Adarsh S R, Assistant Professor ,EEE has successfully completed NPTEL course on " Smart Grid: Basics to Advanced Technologies" with certification.
- Mr Adarsh S R , Assistant Professor ,EEE has successfully achieved mentor certificate for the NPTEL course on " Moral Thinking An Introduction to Values & Ethics".
- Dr. Vishnu Gopan K., Assistant Professor ,EEE has successfully achieved mentor certificate for the NPTEL course on " Moral Thinking An Introduction to Values & Ethics".
- Dr. V Vijikala, Associate Professor ,EEE has successfully completed NPTEL course on " Big data computing" with certification
- Mr. Sreekanth S and Ms Maria Rose K J attended an Entrepreneurship development workshop on   17/07/2024 to 23/08/2024 by Wadhwani Entrepreneur Network(WEN), Wadhwani Foundation and won the Ignite X certification as 'Facilitator'.
- Dr. Vijikala V,Mr. Sebin Davis K became a certified Facilitator of AI for Future WorkForce Program in India.
- Dr. Vishnu Gopan has successfully completed the PALS FDP program on Virtual Lab.

ASH:

- Dr Sukhila krishnan, Ms Anu Jose & Mr Anoop Lonappan became a certified Facilitator of AI for Future WorkForce Program in India,
- Dr. Sukhila krishnan was recognized as Co- Supervisor in Manipal Academy of Higher Education.
- Mr. Anoop Lonappan & Mr Mathews V J attended an Entrepreneurship development workshop on   17/07/2024 to 23/08/2024 by Wadhwani Entrepreneur Network(WEN), Wadhwani Foundation
- Ms. Jasmine Johny and Mr. Anoop Lonappan has got admission for Phd program in NIT C
- Ms Swapna Joseph, Ms Lickny I, Ms Anu Jose,Ms Rani Thomas and Ms Siji Thomas has got admission for Phd program in Manipal Academy of Higher Education.
- Mr Anoop Lonappan, has successfully completed NPTEL course on " Fundamentals of Acoustics.
- Mr Mathews V J, has successfully completed NPTEL course on Refrigeration and Air Conditioning.
- Ms Jasmine Johny & Ms Jimi K J has successfully completed NPTEL course on Physics of Materials.
- Ms Mayasree O has successfully completed NPTEL course on Nano materials and their properties

4.2 Workshop and FDPs attended/ organized:

BM :

- Ms. Jayalakskmi and Ms. Minu Davis attended a 3 Day Faculty Development Program from 17/7/24 to 19/7/24 conducted by WADHWANI FOUNDATIONS- IGNITE X-Transforming the Future of Entrepreneurship Education and qualified as trainers.

- Mr. Jayakrishnan successfully completed the NPTEL Online Certification course on Biomedical Nanotechnology.

- Ms. Minu Davis successfully completed the NPTEL Online Certification course on Research Methodology with an Elite certificate.

- Ms. Jayalakshmi P.K successfully completed the NPTEL Online Certification course on Digital Image Processing.

- Ms. Jayalakshmi P.K conducted a Workshop on KEIL at Department of Vocational Studies, MES College Marampally on 10/10/2024.

- Dr. Reshma Jose has participated in the One Week National Level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research, organised by St. Mary's College (Autonomous), Thrissur in association with the Collegiate Education Department, Government of Kerala from 17 to 24 October 2024.

- Jibin Jose has attended the IEDC Nodal Officer's Meetup held at National Institute of Technology, Calicut on 18/10/24 as part of the IEDC Summit'24 organized by Kerala Startup Mission in association with NIT Calicut.

- Mr. Jis Paul delivered a talk on Nuclear Imaging and Laser Technology in Medical Applications on 27/11/24 for the Department of Physics at Christ College, Irinjalakuda.

- Mr. Jibin Jose served as a resource person on the topic Producing Industry Ready Engineers for an Online Faculty Development Programme conducted on 11th and 12th of December 2024 at Government Polytechnic College, Chelakkara.

- Dr. Reshma Jose of Sahrdaya College of Engineering and Technology has successfully completed the five-day Faculty Development Programme (Hybrid Mode) on "Applied Generative AI" organised by the Department of Computer Applications in association with the International Centre for Free and Open Source Solutions (ICFOSS), Thiruvananthapuram from 09/12/2024 to 13/12/2024.

- Ms. Sony N. S. and Mr. Jibin Jose from the Department of Biomedical Engineering participated in the Annual Convention for the Healthcare Sector, organized by the Bureau of

Indian Standards (BIS) on January 31, 2025, at the National Institute of Training for Standardization (NITS), Noida. This one-day convention aimed to enhance the standardization ecosystem for medical devices and the broader healthcare sector.

- Dr. Reshma Jose attended the 12th KMTC Stakeholders Connect Meet, that brings together stakeholders from the medical technology and medical devices ecosystem on 11/2/2025 at IIT, Palakkad.

BT:
- 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.

- Dr. Amitha Joy attended the FDP titled 'Microplastic pollution: Sources, Analysis and Remediation' held during 03 Feb to 07 Feb, 2025, organized by Dr B R Ambedkar National Institute of Technology Jalandhar

- Ms. Salini. P J successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Vehicle Electrification: Future Mobility Trends from 27/01/2025 to 01/02/2025.

- Dr. Amitha Joy attended the National Conference on 'Omics in Redefining Healthcare' held on 23rd and 24th August 2024, organised by the Jubilee Centre for Medical Research, Thrissur.

- Mr. Francis John V attended NPTEL-FDP titled 'Physico-chemical Processes for Wastewater Treatment' in April 2024.

- Dr. Amitha Joy attended the National Symposium on 'Drug Discovery, Development and Clinical Trials: From Bench to Bedside' held from 29th to 30th November 2024 at Union Christian College, Aluva.

- Ms. Pooja Das Manjulabhai attended a Virtual Session on EMERGING DEFENCE TECHNOLOGIES conducted by PALS 2024-25.

- Dr. Dhanya Gangadharan attended the online FDP titled 'Fungal Biotechnology:Emerging Trends & applications' from 05/08/2024 to 09/08/2024 conducted by Dept. of Biotechnology, NIT Warangal

- Dr. Ranimol. G attended the online FDP titled 'Fungal Biotechnology:Emerging Trends & applications' from 05/08/2024 to 09/08/2024 conducted by Dept. of Biotechnology, NIT Warangal.

- Dr. Ranimol. G attended the online FDP titled 'Technological Advancement in Synthesis of Novel Materials' from 05/08/2024 to 10/08/2024 conducted by Chaitanya Bharathi Institute of Technology, Hyderabad.

- Dr. Uma Krishnakumar attended the FDP titled 'OBE & Application of Generative AI in Teaching & Research' from 17/10/2024 to 24/10/2024 conducted by St. Mary's College, Thrissur.

- Dr. Uma Krishnakumar attended the FDP titled 'Soft Skills for Professional Excellence' from 10/06/2024 to 14/06/2024 conducted by GEC Kozhikode.

- Dr. P Praveena attended NPTEL-FDP titled 'Cell Biology: Cellular Organization, division & processes' in April 2024.

- Dr. Uma Krishnakumar attended an online workshop in 'Data Analytics & AI' 15/06/2024 conducted by CCSIT, Manjeri University of Calicut.

- Dr. P Praveena attended NPTEL-FDP titled 'Host-Pathogen Interaction(Immunology)' in April 2024.' in April 2024.

CE:
- Ms. Mini M has participated and successfully completed the 3-day Face-to-Face FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) at IES College of Engineering, Thrissur from 20th June to 22nd June 2024.
- Ms. Mini M has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on 'Frontiers In Sustainable And Resilient Practices In Civil Engineering' at National Institute of Technology Goa from 09/12/2024 to 14/12/2024.
- Dr. Drisya M has completed one month of online FDP on Revit Architecture organized by skillDzire in collaboration with AICTE, Swayam Plus in September 2024.
- Dr. Drisya M has participated and successfully completed the 3-day Face-to-Face FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) at IES College of Engineering, Thrissur from 20th June to 22nd June 2024.
- Ms.Haritha C R has successfully completed the PALS FDP program on virtual lab.
- Ms. Gokila Chandan has participated and successfully completed the 3-day Face-to-Face FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) at IES College of Engineering, Thrissur from 20th June to 22nd June 2024.
- Ms. Gokila Chandan has participated in the Two weeks International Faculty Development Program on Vertical Urbanization With Tall Structures And Construction Challenges from 21st August 2024 to 04th September 2024.
- Ms. Gokila Chandran has participated in 5 day the Faculty Development Program (FDP) on "Coastal Engineering: Comprehensive Insights for onsite Solutions" conducted by Dr. D. Y Patil Institute of Technology and Central Water and Power Research station Pune, from 2nd September 2024 to 6th September 2024.
- Ms. Gokila Chandran successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on 'Frontiers In Sustainable And Resilient

Practices In Civil Engineering' at National Institute of Technology Goa from 09/12/2024 to 14/12/2024.

- Ms. Gokila Chandran has attended a webinar for Faculty Development Program on "Principles of outcome Based Education" on 10/12/0204

- Ms. Sujana R successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on 'Frontiers In Sustainable And Resilient Practices In Civil Engineering' at National Institute of Technology Goa from 09/12/2024 to 14/12/2024.

- Dr. Drisya M, participated and completed the Three-day Industry-Assisted Online Faculty Development Programme on "Modern Civil Engineering Techniques" organized by PALS and Industry Experts from 20 November – 22 November 2024.

CSE:

- Dr. ASHA S, Associate Professor of Sahrdaya College of Engineering and Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Strategic Approaches and Emerging Trends in Data Science at federal institute of science and technology (fisat) from 10/02/2025 to 15/02/2025.

ECE:

- Dr. Gnana King, Professor of SAHRDAYA COLLEGE OF ENGG & TECHNOLOGY has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Smart Farming: Role of Technology in millets Production at SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR from 13/01/2025 to 18/01/2025.

- Dr. Gnana King, Professor of SAHRDAYA COLLEGE OF ENGG & TECHNOLOGY has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Navigating the Digital Landscape: Next-Gen Communication techniques for Teaching Pedagogy and Research Writing at Knowledge Institute of Technology from 20/01/2025 to 25/01/2025.

- Dr. Gnana King, participated in the Two-day Industry-Assisted Online Faculty Development Programme on DEMYSTIFYING AI AND DATA SCIENCE organized by PALS and Meritus.AI on 23rd and 24th January 2025.

- Dr. Jensha Haennah J H , has participated in the Faculty Development Program on How Teachers Can Make a Difference from Teaching Learning Center (TLC) Indian Institute of Technology Madras held during November 06 - 08, 2024.

- Dr.Jensha Haennah J H , has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Smart Farming: Role of Technology in millets Production at SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR from 13/01/2025 to 18/01/2025.

● Dr.Jensha Haennah J H ,has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Navigating the Digital Landscape: Next-Gen Communication techniques for Teaching Pedagogy and Research Writing at Knowledge Institute of Technology from 20/01/2025 to 25/01/2025.

● Ms. Anju Babu, Ms. Naiji Joseph and Ms. Siji Joseph attended One Week International Online FDP on "Usage of deep learning, machine learning and artificial intelligence towards smart mobility" held at koneru lakshmaiah education foundation, hyderabad from 16 th to 21 st December-2024

● Ms. Anju Babu, Ms. Naiji Joseph, Ms. Siji Joseph, Ms. Vidyamol K, Ms. Binet Rose Devassy, Ms. Chinchu Jose and Dr. Anett Antony successfully completed Virtual Domain Specific training on Virtual Labs by PALS VLAB - 2024-25 initiative with NITK, Surathkal on 10th December 2024

● Ms. Siji Joseph and Dr. Vishnu Rajan successfully completed an FDPon Applied AI: Practical Implementations conducted by Microsoft India & SAP India under TechSaksham Program

● Dr. Ambily Francis and Ms. Chinchu Jose completed ATAL FDP on "Vehicle Electrification: Future Mobility Trends' at SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY from 27/01/2025 to 01/02/2025.

● Dr. Ambily Francis attended ATAL FDP on "Smart Farming: Role of Technology in millets Production" at SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR from 13/01/2025 to 18/01/2025.

● Dr. Ambily Francis participated in international Conclave Next Gen Higher Education conducted by Dept of Higher Education Kerala and Kerala State Higher Education Council January 14-15, 2025

● Dr. Vishnu Rajan and Ms. Binet Rose Devassy attended and ATAL FDP on "Scope and Challenges in Robotics: Bridging Academia and Industry" from 02/12/2024 to 07/12/2024

● Ms. Siji Joseph attended a Workshop on Data Visualization using power BIorganized by 360DigiTMG in association with ASAP on 16/07/2024

● Ms. Anju Babu attended ATAL FDPon "Building Services in Smart City Through IoT-Edge-Fog-Cloud Federation" from 09/12/2024 to 14/12/2024

● Dr. Vishnu Rajan attended a 1 month training program on Internet of Things conducted by SkillDzire in collaboration with AICTE

● Dr. Ambily Francis attended a Virtual Session on EMERGING DEFENCE TECHNOLOGIES conducted by PALS on 6th December 2024.

● Dr. Ambily Francis attended the Virtual Domain Specific training on Virtual Labs An Initiative of the Ministry of Education Under the National Mission on Education through ICT held on 10th December 2024 as part of "PALS VLAB - 2024-25 initiative with NITK, Surathkal.

EEE:

- Ms. Drisya K Sasi, Assistant Professor, Department of EEE, attended 3 day FDP on "How Teachers can Make a Difference" organised by IIT Madras during 06-08 November 2024.
- Mr ADARSH SR, Assistant Professor ,EEE has successfully completed NPTEL course on Smart Grid: Basics to Advanced Technologies with certification
- Dr. Vishnu Gopan K., Assistant Professor, Department of EEE, attended 3 day FDP on "VIRTUAL LABS" organised by IIT Madras during 22nd - 24th October 2024, organized by PALS VLAB-2024- 25, initiative with NITK Surathkal.
- Ms. Maria Rose K J,Assistant Professor ,EEE has successfully completed Wadhwani training program conducted during the period 17/7/2024-23/8/2024
- Mr.Sreekanth S,Assistant Professor ,EEE has successfully completed Wadhwani training program conducted during the period 17/7/2024-23/8/2024
- Mr. Sebin Davis K Assistant Professor, Department of EEE, has participated in National level-6 day hybrid faculty development program on "APPLIED RESEARCH IN ELECTRIC VEHICLE TECHNOLOGY AND RENEWABLE ENERGY INTEGRATION"organised by Department of Electrical & Electronics Engineering, Adi Shankara Institute of Engineering and Technology, Kalady, Kerala. from 1st July to 6th July,2024.
- Mr. Sebin Davis K Assistant Professor, Department of EEE, has participated in the Five-Day International Online FDP "Smart Sensor Systems: IoT-Based Sensor Design, Development and Applications in Electrical Engineering", organized by the Department of Electrical and Electronics Engineering, held from 18/11/2024 to 22/11/24.
- Dr. V Vijikala, Associate Professor ,Department of EEE has participated in one week international faculty development program on Cutting Edge Technologies in Computer Science from 23/9/2024 to 29/9/2024
- Department of EEE organised 6 days AICTE sponsored ATAL FDP on the topic"Vehicle electrification-Future Mobility trends" from 27/1/2025-1/2/2025
- Mr. Sebin Davis K,Ms. Neethu John,Ms. Drisya K Sasi,Ms. Maria Rose K J,Mr. Sreekanth S,Dr. Vishnu Gopan attended 6 days AICTE sponsored ATAL FDP on the topic"Vehicle electrification-Future Mobility trends" from 27/1/2025-1/2/2025
- Dr. V Vijikala, Associate Professor ,Department of EEE has participated in ATAL FDP on "Principles of Space engineering and space vehicle design" at Nehru Institute of Engineering and Technology from 6/1/25-11/1/25.
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ASH:

- Mr. Anoop Lonappan & Mr Mathews V J attended an Entrepreneurship development workshop on   17/07/2024 to 23/08/2024 by Wadhwani Entrepreneur Network(WEN), Wadhwani Foundation
- Mr Anoop Lonappan, has successfully completed NPTEL course on " Fundamentals of Acoustics.
- Mr Mathews V J, has successfully completed NPTEL course on Refrigeration and Air Conditioning.
- Ms Jasmine Johny & Ms Jimi K J has successfully completed NPTEL course on Physics of Materials.

- Ms Mayasree O has successfully completed NPTEL course on Nano materials and their properties.
- Ms. Jimi K J,Ms. Jasmine Johny ,Ms. Savitha Paul,Ms Swapna Joseph, Ms. Mayasree O, Ms Lickny I and Dr. Sukhila Krishnan attended 6 days AICTE sponsored ATAL FDP on the topic"Vehicle electrification-Future Mobility trends" from 27/1/2025-1/2/2025.
- Dr. Deepthi Parangot attended 6 days FDP on the topic"Communication Strategies for Academic Excellence" from 11/11/2024-16/11/2024
- Dr. Sukhila Krishnan and Ms Jasmine Johny attended 6 days AICTE sponsored ATAL FDP on the topic"Indian Health, wellness & psychology (including ayurveda) " from 20/1/2025-25/1/2025.
- Ms Anu Jose and Ms Swapna Joseph attended 6 days Workshop on"LaTeX" from 2/12/2024-7/12/2024
- Ms Siji Thomas, Dr Sukhila Krishnan and Ms Mayasree O attended 6 days Workshop on"LaTeX" from 5/2/2025-11/2/2025 conducted by IIT Bombay.

4.3 Paper Publications & Presentations by Faculty Members

BM :

- Dr. Reshma Jose, Ms. Jayalakshmi P.K and Mr. Jayakrishnan S presented a paper titled detection of anemia from conjunctival palor and nail color using image processing which has been accepted for publication in International Conference on Advances in Renewable Energy and Intelligent Systems at Jyothi Engineering College on 5th and 6th December 2024.
- Ms Jayalakshmi P K, Mr Georgy, Mr Febin, Ms Sheda and Ms Anagha has presented a paper entitled "Advanced Wearable EEG Monitoring Device for Continuous Epileptic Seizure Detection with Integrated Mobile App Development" in the 4th International Conference on Emerging Electronics and Automation (E2A-2024) organized by the Department of Electronics and Instrumentation Engineering, National Institute of Technology Silchar during 9 th to 11th December 2024.
- Dr. Jeethu Raveendran Published a paper titled as screen printed Electrode for electrochemical detection of sunitinib malate for therapeutic drug monitoring in the journal electrochemical scientific on 10th December 2024
- Dr. Jeethu Raveendran Published a paper titled as Electrochemical behaviour of an anticancer drug Erlotinib at screen printed electrodes and its analytical applications in the journal Current Analytical Chemistry on 4th September 2024.
- Ms. Sony N S chandana KR, Nirmal PS, Navaneeth E U attended internal National IEEE conference on october 2024 .
- Ms.Sony N S,Ms.Farha Mohammed ,Mr.Jicks Jose Alookkaran,Mr.Amal p Gijo Attended International IEEE Conference on 30th and 31st August 2024.
- Ms.Jayalakshmi P K,Mr.Sree Sankar J ,Ms.Aswathy Anda Chacko Published a book of Principles of industry 4.0 in 2024 .
- Ms.Jayalakshmi P K,Mr.Sree Sankar J Published a book of Total Quality Management in 2024 .

BT:

- Dr. Dhanya Gangadharan and Ms Pooja Das M published a research paper titled "Screen-printed electrode for electrochemical detection of sunitinib malate for therapeutic drug monitoring" in Journal of Electrochemical Science and Engineering,ISSN 1847-9286,SCOPUS.

- Dr. Leon Ittiachen & Ms. Sangeetha Gopal published a research paper titled "Analysis of quality parameters; preservative concentrations in Sahacharadi Kwatha: A comparative study of three commercial brands" in Journal of Ayurveda and Integrative Medicine,ISSN 0975-9476, ESCI, SCOPUS.

- Ms. Nivya R.M and Dr. Amitha Joy published an article entitled "Computational Evaluation of Curcumenol as a Potential Inhibitor against Calcineurin Protein" Current Trends in Biotechnology and Pharmacy, ISSN 0973-8916 SCOPUS.

- Dr. Dhanya Gangadharan (BT) and Dr. Jeethu Raveendran(BME) published a paper titled as Electrochemical behaviour of an anticancer drug Erlotinib at screen printed electrodes and its analytical applications in the journal Current Analytical Chemistry on 4th September 2024.

- Dr Leon Ittiachen and Ms Sumi Maria Babu published a research paper 'Biogenic silver nanoparticle-coated low density polyethylene film with antibacterial and antioxidant properties',Journal of Coatings Technology and Research,Springer, in March 2024.

- Dr. Ambili Mechoor and Dr. Rahna K Rathnan published a book titled Molecular Tools for Disease Detection: Trends and Developments.

- Dhanya Gangadharan and Dr. Jeethu Raveendran published a review article titled 'Emerging trends in the cystatin C sensing technologies: towards better chronic kidney disease management' in RSC Advances 9 Royal Society of Chemistry) in Feb 2025.

- Dr. Leon Ittiachen and Ms. Sangeetha Gopal published a chapter titled 'Exploring the antimicrobial potential and phytochemical composition of Ocimum tenuiflorum leaf extracts : An analytical approach inn the book Innovative Solutions: A Systematic Approach Towards Sustainable Future, Edition 1.

- Dr. Leon Ittiachen and Ms. Marria C Cyriac published a research paper titled 'Phytochemical characterization and evaluation of the antibacterial activity of Amruthotharam kwath, a traditional polyherbal formulation on multidrug resistant clinical isolates from the respiratory tract' in Indian Journal of Traditional Knowledge (SCIE) in February 2025.

- Ms. Marria C Cyriac published paper titled 'Optimization of methy;ene blue dye biosorption using jackfruit peel using RSM' in 37th Kerala Science Congress Proceedings in February 2025.

CE:

- 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 Ragi C Ravindran, Bhavansha M S, Aiswarya K S, Joseph Baiju & Vrindha Rajan has participated for Poster Presentation at Pravaha, RSD 7.0, the seventh edition of Research Scholars' Day at IIT, Palakkad, kerala.

CSE:

- Dr. Sreeraj R Published a paper titled "An advanced hybrid deep learning model for accurate energy load prediction in smart building" in the journal Energy Exploration and Exploitation, SAGE in August 2024.
- Mr. Anil Antony Published a paper titled "African Vulture Optimization with Deep Learning-based Geographical Information Analytics for Land Cover Segmentation and Classification" in International Journal of Intelligent Systems and Applications in Engineering on 2nd July 2024.
- Mr. Anil Antony Published a paper titled "Enhancing Food Crop Classification in Agriculture through Dipper Throat Optimization and Deep Learning with Remote Sensing" in the journal e-Prime - Advances in Electrical Engineering, Electronics, and Energy on 2nd July 2024.
- Dr. Manishankar S, Dr. Krishnadas J. Ms. Anly Antony M and Ms.Rehna Baby Joseph Published a book titled "Computer Organization and Architecture " in October 2024.
- Dr. Manishankar S has presented a paper entitled "Disease Detection And Severity Prediction Of Pomegranate Fruit" in the 15th International Conference on Computing Communication and Networking Technologies (ICCCNT) organized by Indian Institute of Technology Mandi, Himachal Pradesh during 24-28 June 2024.
- Ms. Anly Antony M has presented a paper entitled "Real-Time Voice Phishing Detection Using BERT" in the 5th International Conference on Artificial Intelligence and Smart Energy organized by JCT college of Engineering and Technology, Coimbatore during 30-31 January 2025.

ECE:

- DR. G.R. Gnana King published a paper titled , "Automated detection of pancreatic cancer with segmentation and classification using fusion of UNET and CNN through spider monkey optimization" , Biomedical Signal Processing and Control,Volume 102,2025, 107413, ISSN 1746-8094. (Elsevier - SCI Indexed)

- DR. G.R. Gnana King published a paper titled, "Development of Innovative Algorithm for Sound Detection Based on FFT and Goertzel Algorithms," 2024 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)2024, pp. 221-228, doi: 10.1109/IDCIoT59759.2024.10467934.

- G. K. Arun, V. Rajan and G. R. G. King Published a paper titled , "Deep Learning for Pothole Detection: Exploring YOLO V8 Algorithm's Performance in Pavement Detection," 2024 International Conference on Data Science and Network Security (ICDSNS), Tiptur, India, 2024, pp. 1-7, doi: 10.1109/ICDSNS62112.2024.10690953.

- Ms. Vidyamol K published a paper "Efficient Pipelined Hardware Architecture for Depth-Map-Based Image Dehazing System", IEEE Transactions on Very Large Scale Integration (VLSI) Systems, on December 2024

- Dr. Anett Antony published a paper titled 'Beam steering of Fabry Pérot antenna by using hybrid metasurfaces" in Journal of Electromagnetic Waves and Applications on December 2024''.

- Dr. Ambily Francis published a paper titled "Early detection of Alzheimer's disease using squeeze and excitation network with local binary pattern descriptor" in Pattern Analysis and Applications. 2024 Jun;27(2):1-3.

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ASH:
- Dr. Sukhila Krishnan Published a Review paper titled as Renewable Resource-Based Epoxy Vitrimer Composites for Future Application: A Comprehensive Review in the journal ACS Sustainable Resource Management on 22th August 2024.
- Dr Sudha George Valavi had Coauthored and published a book titled Chemistry for Engineers for First Years of KTU 2024 syllabus.

4.4 Outreach Activities:

- Dr. Asha S served as the member of the interview panel for the recruitment of Project Assistant at Velukkara Grama Panchayath.

- A social outreach program – 'Hands on training on Robotics' was conducted for school students by the Department of ECE on 04/10/2024. 50 students from St.Antony's HSS, Mala participated in the workshop.

- A social outreach program – "Hands-on Training on Robotics" was conducted for school students by the Department of ECE on October 8, 2024. Students from St. George's HSS, Pariyaram, participated in the workshop.

- The Social outreach programe for CJMA HSS Varandarapilly school students on 22/02/2025

4.5 Invited expert talk by faculty;

- Dr. G. R. Gnana King served as a Guest Speaker on "Segmentation Using Deep Learning Algorithms" at St. Xavier's Catholic College of Engineering, hosted by the Department of Electronics and Communication Engineering on May 27, 2024

- Dr. G. R. Gnana King delivered a Guest Lecture on "Entrepreneurship for Engineers" for UG students at Lord Jegannath College of Engineering and Technology, Nagercoil, on September 14, 2024.

- Dr. Manishankar S , Dr. Krishnadas J, Ms. Anly Antony M, Ms. Rehna Baby Joseph served as Resource persons for Two day student development Programme on "Python for Engineers" in Government Engineering College Thrissur.

- Dr. Manishankar S served as a resource person on "Foundations of Application development" for FIERA 2025, science exhibition held at MAPS

- Dr. vishnu Rajan served as a resource person on the topic 'Fundamentals of Generative AI' for 5 days faculty development program on computational techniques and AI applications in signal processing and imaging organized by association of department of electronics and communication engineering and IEEE SB, Nehru college of Engineering and Research Centre

- Dr. Vishnu Rajan handled a Guest Lecture on Google for Developers: Decoding the program at Providence College of Engineering, Chengannur
- Dr. Vishnu Rajan conducted a 40 hour internship session for UG students from 20 different Universities in India as a part of the Great Indian Hackathon 2024
- Dr. Krishnadas J, Dr. Sreeraj R, Ms. Livya George Served as Resource Five day FDP on "Python for data science " organized by Department of CSE, Sahrdaya

- Dr. Sreeraj. R served as a resource person for the one day training on OpenIOT organized by Adishankara Institute of Science and Technology, Kalady

- Dr. Sreeraj R served as a resource person for the FDP on the topic "Reinforcement Learning" organized by Mahaguru Institute of Science and Technology.

- Dr. Sreeraj. R served as a resource person for the Technical Talk on "Python for Mechanical Engineers - Machine Design and Visualizing Fluid Flows" organized by Universal Engineering College, Thrissur.

- Mr. Sebin Davis K Assistant Professor, Department of EEE, has delivered an online session Idea Engine dated 12.8.2024 on the theme 'Renewables, energy conservation, e-mobility and carbon sequestration'.

5.0 Technical Associations:

The Technical Associations in all the six departments organized a number of Programmes to promote the technical and organizational skills of the students. A number of invited talks and symposium were organized by the Technical Association. The following are some of the major Programmes organized during the report period.

5.1 BIOMEDICAL ENGINEERING DEPARTMENT:

- The Department of Biomedical Engineering conducted a One Day Workshop on "Introduction to Python Programming" by Mr. Leno, Final year student of Computer Science and Engineering at SCET for the Third semester students on 19/7/24.

- The Department of Biomedical Engineering conducted a 2 day Interactive seminar cum Hands-on workshop on-"Electronic product building" by Antu Dominic chief technical officer,Truetek world, Angamaly on 26th and 27th of July 2024.

- The Biomedical Engineering Department Students' Association (EBSA), in collaboration with the Biomedical Engineering Society of India (BMESI) organized a Latex Training Program for seventh-semester Biomedical Engineering students on 23/8/24 by Ms. Sonu Varghese, Research scholar in the Department of Computer Science and Engineering at SCET, Thrissur.

- The Department of Biomedical Engineering conducted a 2 day Workshop on Hardware Integration using Micropython by Mr. Prince John Joseph of Teqard Labs Pvt Ltd and Manu Francis of Edwhere Education, Cochin on 30th and 31st August 2024.

- Department of Biomedical Engineering in association with Training and Placement Cell of Sahrdaya College of Engineering and Technology conducted a Session on Regulatory Affairs led by Mr. Bibin Varghese, Medical Device Regulatory Consultant, Medtech Pvt. Ltd.

- The Department of Biomedical Engineering at Sahrdaya, Sahrdaya TBII Hub, and Medzell Pvt. Ltd. made a collaboration aimed to develop Cancer Diagnostic Technology that includes funding, internships with stipends, joint product development, and IP sharing. A visit by subject expert and Board of Governors (BoG) member Dr. Venugopal G (also a BoG member of APJAKTU), along with Mr. Sujith, CEO of Medzell, and his team took place for the final discussions on 7//11/2024.

- The Department of Biomedical Engineering conducted training on In Vitro Diagnostics Technology by Agappe Diagnostics Ltd for final year students (2021- 2025 Batch) from 9/12/2024 to 13/12/2024 at Sahrdaya- Agappe Innovation Hub.

- The Department of Biomedical Engineering in association with Rotary Club of Cochin Airport conducted a Webinar on Cervical Cancer Screening and Prevention by Dr. Laiza Juby, Consultant Gynaecologist, K.G Hospital, Angamaly on 2nd October through Online platform.

- Department of Biomedical Engineering in association with NDLI organized a virtual talk on the Musculoskeletal System by Dr. Varghese Thomas, Orthopedic Surgeon, Pushpagiri Medical College Thiruvalla on Saturday October 19, 2024.

- Department of Biomedical Engineering organized an online session on "Impact of AI in Biomedical Image Segmentation Technique" by Mr. Sree Sankar J, Assistant Professor, Department of ECE, Jawaharlal College of Engineering and Technology on Saturday October 19, 2024.

5.2 CIVIL ENGINEERING:

- A three-day software training program on REVIT, RHINO, and GRASSHOPPER was conducted to enhance students' proficiency in building design and modeling. The sessions were led by Mr. Arun Nair from CAD Centre Thrissur on 29th, 30th August, and 2nd September 2024 for S5CE 2022-26 students. The training provided hands-on experience and valuable insights into advanced design and modeling techniques.

- A three-day training on AutoCAD - 2D & 3D from 24th to 26th September 2024 by CAD Centre Kodungallur for S3CE 2023-27 students. The session focused on AutoCAD, equipping students with essential drafting skills required in both 2D and 3D modeling.

- An Awareness Talk on Outcome-Based Education (OBE) was conducted by Ms. Sujana R, Ms. Ragi C Ravindran, and Ms. Haritha C R for S7CE 2021-25, S5CE 2022-26 and S3CE 2023-27 students, respectively on 27th July 2024. The session provided insights into OBE, fostering an understanding of its significance in engineering education and its application in academic and professional settings.

- An orientation for the Graduate Aptitude Test in Engineering (GATE) was led by Mr. Anith T.A, Director of ONES Academy, for the S5CE 2022-26 students, on 9th August 2024,

- An alumni interaction session was arranged on 16th August 2024 for S5CE 2022-26 and S3CE 2023-27 students. Ms. Averin Ashmi, Alumnus CE 2017-2021, Structural Engineer at CDM Smith, Chennai shared her professional experiences, providing guidance on career pathways and skills essential for success in the civil engineering field.

- The students of S3CE 2023-27 visited Chimney Dam and Ceecon Ready Mix Plant on 14th October 2024 for practical exposure. The visit provided them with valuable insights into dam construction, water management, and concrete production processes. This hands-on learning experience helped bridge the gap between theoretical knowledge and real-world engineering applications.

- A site visit was arranged for S5CE 2022-26 students to Highway Bridge Constructions by Cherian Varkey Constructions at Azheekode on 23rd October 2024. The visit provided valuable hands-on exposure to bridge construction techniques and real-world engineering practices.

- A Session on Tekla Structures - Building Information Modeling Software was organized by the Department of Civil Engineering on 05-04-2024 for S6 CE 2021-25 Batch. The session was handled by Mr Abin James, Managing Director, Keywords Technologies.

- A site visit was arranged on 10th January 2025 for S6CE 2022-26 students to 20 MLD Water Treatment Plant at Peechi and also they visited Sewage Treatment Plant at General Hospital, Thrissur. The visit provided valuable hands-on exposure and comprehensive understanding of water supply engineering and wastewater engineering practices.

- A site visit was arranged on 14th February 2025 for S4CE 2023-27 students to Soil Museum, KFRI , Peechi and also to Geology Lab at Sahrdaya College of Advanced Studies, Kodakara. The visit provided valuable information on geology and enhanced their understanding of geological applications in engineering practices.

5.3 COMPUTER SCIENCE & ENGINEERING DEPARTMENT:

- The Department of Computer Science and Engineering, together with the IEEE Computer Society Sahrdaya Student Branch (SB), organized a one-day outreach program on the topic "AI and Its Future Scope."

- The Department of Computer Science and Engineering, in association with the IEEE Computer Society, Sahrdaya, organized an informative session on an AR-VR workshop in collaboration with TILT-EDU.

- The 5-day Technical Bootcamp on Augmented Reality (AR) and Virtual Reality (VR), held from the 5th to 9th of August 2024, was an immersive experience aimed at equipping participants with practical knowledge and hands-on skills in AR/VR development.

- The Department of Computer Science and Engineering conducted a 1-day workshop on 'LaTeX', specifically for fourth-year biomedical students, to provide them with practical experience in creating reports using LaTeX.

- The internship orientation conducted by White Matrix in January 2025 provided prospective candidates with an overview of the application process, requirements, and expectations.

- On February 12, a highly anticipated workshop on Augmented Reality/Virtual Reality (AR/VR) took place, organized in collaboration with IEEE CS and IEDC.

- The two-day workshop on Web Development Using Angular was held on October 8-9, 2024, at Sahrdaya College of Engineering and Technology.

- The two-day workshop on Augmented Reality (AR) was held on October 8-9, 2024, at Sahrdaya College of Engineering and Technology.

- The Python Hackathon (PYHACK) for S1 students was conducted on 30th November 2024 by the Department of Computer Science. The event aimed to introduce first-year students to the exciting world of coding and problem-solving using the Python programming language.

- The Department of Computer Science and Engineering conducted an insightful session on "Cybersecurity" exclusively for S4 students, under the expert guidance of Jithin Joseph, a Cybersecurity Researcher at CC Cybercampus, Muhammad Anas P.A., a Cybersecurity Researcher, and Sanal Lince, an Offensive Security Researcher at Manappuram Finance Limited.

- The session on technical paper writing, led by Keerthana I.P. and Sonu Varghese K., Ph.D. Scholars at SCET, aims to equip participants with the essential skills for crafting clear and impactful papers.
- A career guidance session was conducted by Dr. John Jose, Associate Professor at IIT Guwahati and Vice Chair of IEEE India Council, leading the discussion.
- The Department of Computer Science and Engineering, in collaboration with the IEEE Computer Society Sahrdaya and TILT-EDU, organized an informative session on Augmented Reality (AR) and Virtual Reality (VR).
- On 14th January 2024, a Web Development Workshop was conducted for S4 Computer Science students by the S6 Computer Science students.
- On 1st February 2025, Sahrdaya Tinker Hub organized the TinkHer Hackathon, an exclusive event designed to encourage and empower female students to explore and excel in the field of technology and innovation.

5.4 ELECTRONICS & COMMUNICATION DEPARTMENT:

- IIT Palakkad and Sahrdaya College of Engineering and Technology have signed a Memorandum of Understanding (MoU) to enhance collaboration in academics, research, and industry engagement, focusing on circuit-aligned branches.
- A team of students and faculty from the Electronics and Communication Engineering (ECE) department visited the Vikram Sarabhai Space Centre (VSSC) in Thiruvananthapuram. During their educational trip, they had the opportunity to witness the launch of the RH200 sounding rocket, which plays a vital role in atmospheric research.
- As part of its social outreach efforts, the ECE Department organized a "Hands-on Training on Robotics" workshop for school students on October 4, oct 8 -2024. students from St. Antony's Higher Secondary School, Mala, and
  St. George's Higher Secondary School, Pariyaram ,participated enthusiastically.
- Joselit S. Thayil, Charles Varghese, Athul K. Jayan, and Rint Jaimon from S7 ECE conducted a peer skill-sharing session on PCB design using KiCad for S3 ECE students on July 21.
- Ms. Treasa Alen, Process Engineer at Johnson & Johnson and an alumna of the 2014-2018 batch, conducted an alumni interaction session on "Goals and Performance" for ECE students from the 2021-2025 and 2022-2026 batches.
- A workshop on "Intellectual Property Rights" was conducted on August 14, 2024, by Dr. Anjan R. Nair, Associate Professor, Department of Mechanical Engineering, GEC Thrissur, for S5 and S7 ECE students. The session offered valuable insights into patents, copyrights, trademarks, and the importance of intellectual property in innovation and technology.
- A hands-on workshop on "Signal Processing Using MATLAB" was conducted on August 22-23, 2024, by Siva Subramanian, Application Engineer at Coreel Technologies, for S5 ECE students.
- A hands-on workshop on "FPGA-Based Prototyping Using Verilog HDL" was conducted on August 22-23, 2024, by the NIELIT team for S3 ECE students. The session provided practical experience in FPGA design, covering Verilog HDL fundamentals, hardware implementation, and real-time prototyping techniques.
- The ECE Department organized a one-hour session titled "Talk on Opportunities After Engineering Through GATE Exam" for S5 ECE students on August 7, 2024. Conducted by

ONES Academy, the session provided insights into career prospects, higher education opportunities, and the competitive advantages of qualifying for the GATE exam.

- The ECE Department has organized a one-hour session titled "GATE: A Pathway to Your Dreams" for S3, S5, and S7 ECE students on October 5 and 7, 2024. Conducted by Mr. Jayaram V., Ph.D., HR Head Advisor & Faculty at CGP Career Avenues.
- The ECE Department is hosted an interactive session on interview success strategies with Mr. Godson C. S., Developer at UST Global and an alumnus of the 2020-2024 ECE batch. Scheduled for September 27, 2024, at 11:00 AM, the session is exclusively for selected S7 ECE students.
- The ECE Department is organized an alumni interaction session with Ms. Christa Babu, Project Engineer at UST Global and an alumna of the 2017-2021 ECE batch. Scheduled for September 30, 2024, at 10:00 AM, the session is designed for selected S7 ECE students.
- On October 14, 2024, Mr. Soj Thomas, Head of Engineering at Bosch Global Software Technologies and Professor of Practice, ECE Department, SCET, delivered a technical talk on automotive systems for Electronics and Communication Engineering students.
- The ECE Department hosted an exclusive Workshop Cum Internship Drive titled "VEGA Boards for IoT Applications" on October 16, 2024, for selected students from the EEE and ECE 2021-2025 batch. The session was conducted by the C-DAC team, led by Mr. Libin T.T., Associate Director, C-DAC.
- On October 28, 2024, the ECE Department hosted a Distinguished Lecture Program on "Artificial General Intelligence Chips," presented by Dr. Alex P. James, Dean of External Linkages and Professor at Digital University Kerala.
- On October 28, 2024, the ECE Department hosted a workshop on "Neuromorphic Computing," led by Digital University Kerala. The session explored the innovative intersection of neuroscience and computing technologies.
- The ECE Department organized an industry interaction session on "Recent Trends in Security for AI" for S4 and S6 students on January 15, 2025. The session was conducted by Mr. Pratyush C. Mohan, Technical Program Manager at OKTA.
- The ECE Department organized an industry interaction session titled "Reboot Your Mind: A Psychology-Based Class to Empower Your True Self" for S4 and S6 students on January 16, 2025. The session was led by Dr. Ali M.A., Consulting Psychologist, Internationally Certified Trainer, and Retired Professor from GEC Thrissur.
- The ECE Department, in collaboration with IEEE CASS Sahrdaya, organized a one-day industry interaction workshop on "Neural Network Inference on PYNQ and ZYNQ Boards" on January 22, 2025. The workshop was conducted by Mr. Siva Subramanian R., Application Engineer at CoreEL Technologies, for selected S4 and S6 ECE students.
- The Hardware Club, in association with the ECE Department, successfully organized a Micro Hackathon on January 21, 2025.
- S4 ECE students attended a motivational talk jointly organized by the ISTE (Indian Society for Technical Education) and the ECE Department.

5.5 ELECTRICAL & ELECTRONICS ENGINEERING DEPARTMENT:

- Department of EEE conducted Five days hands on training session on Autocad with MEP Electrical S7 EEE students from 23/07/2024(Monday) to 27/07/2024(Saturday)from 9:00am-4:20 pm.The session was handled by Ms Keerthi MS & Ms Muhsina Faisal ,Faculty CAD Center Kodungallur.

- Department of EEE in association with IEEE Control System Society conducted a session on "Opportunities after GATE in Electrical Engineering" for S5EEE Students on 09/08/2024. The session was handled by Mr Sathesan & Mr Anith T A, Director ONES academy.

- Department of EEE in association with IEEE Control systems Society conducted a one day hands on training session on MATLAB for the selected students of SCET,Kodakara on 31/08/2024(Saturday) from 9:00am- 4:20 pm.The session was handled by Mr Jomon Jose, Mr Muhammed Ans, Mr Austin Mathew, Students of S7EEE ,SCET.

- Second year Electrical & Electronics Engineering students at Sahrdaya College of Engineering and Technology visited Pallivasal Power House ,Chithirapuram on 31/08/2024.

- Third year Electrical & Electronics Engineering students at Sahrdaya College of Engineering and Technology visited Lower Periyar Power Station,Idukki on 31/08/2024.

- Department of EEE in association with IEEE Control System Society conducted an Alumni interaction for S5EEE students on 9/10/2024.The session was handled by Mr Jeo C Auguin, Director – Excel Earthings

- Department of EEE in association with IEEE Control Systems Society conducted one day workshop on Soldering Practise & Arduino Basics for S1EEE students on 15/10/2024 from 9 am-4 : 20 pm. The session was Handled by Mr Jomon Jose & Mr Muhammed Ans,Students of S7EEE ,SCET

- Department of EEE in collaboration with Hykon India Ltd,IIIC & IEEE Control System Society conducted a technical talk on "Introduction to Design of Electric Vehicles as per AIS for S7EEE Studentson 07/11/2024.The session was handled by Mr Ajith M, Senior Engineer R & D ,Hykon India Ltd

- Department of EEE & ECE together hosted an exclusive Workshop cum Internship drive on "VEGA Boards for IOT applications" on 16/10/2024 for selected students from EEE & ECE 2021-25 Batch . The session was handled by Mr Libin TT ,Associate Director ,CDAC

- Department of EEE in association with IEEE Control System Society conducted a technical talk on "National Power Grid of India" for the students of EEE Department on 17/12/2024(Tuesday) from 10 am-12:00 pmThe session was handled by Mr Reji John, Rtd DGM TELK Angamaly

- Department of EEE in association with IEEE Control System Society conducted a expert talk on "Energy scenario & Energy efficiency" for the students of EEE Department on 19/12/2024(Thursday) from 11 am-12:30 pm.The session was handled by Mr Jishnu Sanath ,Energy auditor, Sopanam Energy Aesthetics.

- Department of EEE in association with IEEE Control System Society & CDAC Trivandrum conducted a session on "Introduction to VEGA processors & ecosystem" for S6EEE Students from 03/01/2025(Friday)-04/01/2025 (Saturday).The session was handled by Mr Avin Joseph,Project Engineer CDAC Trivandrum.

- Department of EEE in association with IEEE Control System Society conducted two days hands on session on "PCB Design for Beginners" for S4 EEE students from 09/01/2025(Thursday) to 10/01/2025(Friday)from 9:00am- 4:20 pm.The session was handled by Mr Midhun C, Electrical CAD Engineer Amara Raja Design Alpha.

5.6 APPLIED SCIENCE AND HUMANITIES

- Department of ASH had conducted the freshers Day on Sep 12,2024 for first Semester students.
- Department of ASH had conducted the MATLAB training session on 21/1/2025 & 22/1/2025 for first Semester students.
- Department of ASH had conducted the talk on Exploring Aspirations & concerns - the basic Human Aspirations and their fulfillment by Dr Sunil Kumar N Professor & HOD (Civil Dept) (Lead facilitator in kerala chapter and CUSAT UHV cell) on Oct 3,2024 for first Semester students.
- A hands-on workshop on "MATLAB" was conducted on September 28 ,2024, by Mr Siva Subramanian, Application Engineer at Coreel Technologies, for Mathematics and Physics faculty.
- Department of ASH had conducted a bridge course for first year students from 5/08/2024.
- Department of ASH had conducted an Induction program for first year students from September 2- 6,2024

6.0 Student Achievements :

- Avandhika S. Kumar and Gopika Shibu, final-year B.Tech Biomedical Engineering students from Department of Biomedical Engineering won the 2nd prize at the prestigious Siemens Innovation Think Tank Global Innovation Contest held at Siemens Healthineers, Bangalore from July 22nd to 31st 2024.

- Two final year projects were selected for an exhibition at Siemens Annual Innovation Think Tank (ITT) to be held in Istanbul, Turkey.

  Group1 : Name of the Project: "A Novel Wearable Neckband for Sleep Apnea Diagnosis and Monitoring" Members: Ebin Wilson, Anatt P Davi, Alex Anto and Sana Mariyam & Guide: Ms. Minu C Davis

  Group2 : Name of the Project: "Personal Mood Tracker and Intervention System for Depression using Facial Emotion Recognition, Heart rate variability and Voice analysis"Members: Anushka Sumesh, Maryam, Sanjay Shankar and Sreelakshmi Guide: Ms. Sony N.S

- The final year project Smart Leap: Wearable Dual sensor Smart Shoes for Performance analysis of long Jump secured 3rd prize in Srishti project expo held as part of Tharang tech

fest at Jyothi engineering college on 2/10/24. The project is guided by Mr. Jibin Jose and team members are Abhirami S, Hridhya k, Abin C Jose and Vivek C V.

- The paper titled "Real Time Video Based Detection of Retained Surgical Instruments during Intra operative Procedures" was published in IEEE Conference2024 Control Instrumentation. The authors are Chandana K.R, Nimal P.S, Navaneeth E. U and Ms. Sony N.S.

- Three students secured placements—two from the 2024 graduating batch Mr. Jithu and Mr. Sreerag and one from the 2025 batch Mr. Abhinav as interns at Boston Scientific. The internship includes a stipend of INR 30,000 per month, a travel allowance of INR 10,000 per month, and an annual incentive of INR 60,000.

- Ms. Anatt P. Davi from Final Year B.Tech Biomedical Engineering has been selected for an internship in the R&D Department of Horiba, with a stipend of ₹20,000 per month.

- Ms. Krishna Sugunan has been selected for Residential Student Workshop (RSW), the Flagship 3 Day Residential Workshop conducted by IIT, Madras.

- Ms. Krishna Sugunan of Final year Biomedical Engineering was selected for the Think-Create- Engineer prestigious Three Day Workshop Program at IIT, Madras on 27th, 28th and 29th January 2025.

- Ms. Farha Mohamed, Jicks Jose Alookkaran, Ajil Prasad and Amal P Gijo of 2024 batch presented a paper titled Video- Based Real time Surgical tool error detection in laparoscopic cholecystectomy at IEEE- Mysurucon 2024- 4th Edition of Flagship International Conference hosted by Vidya Vikas Institute of Engineering and Technology, Mysuru on 30th and 31st of August, 2024. The project was guided by Ms. Sony N.S.

- Amritha A S and Hansal K H of the CE 2022-26 batch secured the 2nd Runner-up position in the Intercollege Civil Engineering Quizzing Event organized by CIVILIANZ MAZE at NIT Calicut on 1st October 2024. Their achievement highlights their technical knowledge and competitive spirit in the field of Civil Engineering.

- Amritha S and Hansal K H of the CE 2022-26 batch, secured 2nd place in the Zone II Inter-college Civil Engineering Quizzing event, CIVILIANZ MAZE 6.0, hosted at CUSAT. This prestigious competition was jointly organized by Civilianz and the Swadeshi Science Movement.

- Ackshya V Kumar of CE 2021-25 batch has secured a placement at Aarbee Structures Pvt Ltd. This achievement highlights her skills and dedication in the field.

- Mr.Indradhanush PD, student of Third semester, EEE Secured 1st Prize in the Power Quiz arranged by KSEBOA in September 2024.

- Prashob Francis(S5) EEE has won first prize in the arm wrestling championship conducted by Kerala State Youth Welfare Board

- Manu K B and Sreehari Siju of fifth semester ,EEE has been selected for 3 day residential student workshop program at IIT Madras

- Mr. Robin Francis S7 CSE student has attended IEEE IES young innovators congress in December 2024 at Anna University,Chennai.

- Vivek K J, Adwaith Jayasankar, Robin Francis,Joel Jaison final year CSE students won second prize in the IBM Watsonx Challenge at the International Gen AI conclave held at Kochi on 11 & 12 July 2024.

- Devadath PS, Vasudev Rejikumar, Ciljoliya and Arya Nandha P bagged second prize at Prisma 2024 held at Christ College of Engineering and Technology, Irijalakuda on 16 August 2024.
- Rosemary P J and Geona Varghese bagged first prize in Chipathonu,IC design competition organized by IEEE CASS SBC MITS on 31 August 2024.
- Aryanandhavb achieved 3rd place in university inter-collegiate karate championship

8.0 SPORTS:

- We are thrilled to announce that our student, Malavika Chandran (S3 BM), delivered an exceptional performance at the Interzone Karate Championship held at MACE on 09/11/2024. Competing in the +68 kg Kumite category, she clinched the Gold Medal, showcasing her skill, dedication, and perseverance. Adding to this remarkable achievement, Malavika has also secured a place in the Inter-University Team, a testament to her hard work and talent.
- women's shuttle badminton team delivered an impressive performance at the tournament held at JCET on 9th and 10th October 2024, securing a third-place finish. Adding to this success, one of our players has been selected for the Interzone team, marking a significant milestone in her sporting journey
- our basketball team emerged as the champions of the E-Zone Basketball Championship held at Sahrdaya College of Engineering and Technology on 15th and 16th October 2024.
- volleyball team put up a commendable performance at the E-Zone Volleyball Championship held at SIMAT, Vavanoor on 23rd and 24th October 2024, securing a fourth-place finish
- women's netball team delivered an impressive performance, securing third place, while our men's team achieved a commendable fourth-place finish at the APJAKTU Netball Championship held in Thrissur on 14th December 2024.

➢ Inter-University Selections:

- Men's Team: Nidhin Biju (S8 EC) & Jomi Joju (S1 BME)
- Women's Team: Joshna B Ann (S6 BTE) & Raina Shaju (S4 CSE)

- Kho Kho team showcased an exceptional performance at the E-Zone Kho Kho Championship held on 13th November 2024, securing the second prize .

- The Annual Sports and Games Meet 2024-25 was successfully organized by NSS Unit No. 316 from 16th to 15th February 2025. The grand opening ceremony commenced with the hoisting of the flag and the official declaration of the meet open by Rev. Fr. Dr. Anto Chungath, Executive Director. Adding to the spirit of the event, our college athletic champions carried the torch and Olympic flame with great pride and enthusiasm.

➢ Championship Results
- Individual Champions:
    ○ Boys: Antony Daison
    ○ Girls: Mirza Maryam

- Overall Championship: CS (ACES) – 137 points

- Our Sahrdaya College of Engineering and Technology football team participated in the E-Zone Football Tournament held at Vidya Academy of Science and Technology on 31st October 2024.
- Our college cricket team participated in the E-Zone Cricket Tournament held at Vidya Academy of Science and Technology on 2nd February 2025.

Achievements 2024-2025

E-Zone Achievements

1. First Place – E-Zone Basketball Tournament (Men)
2. Fourth Place – E-Zone Volleyball Tournament
3. Second Place – E-Zone Kho Kho Championship
4. Third Place – Women's Badminton Championship *(One player selected for Interzone team selection)*

Interzone Achievements

1. Gold Medal – Malavika Chandran, Interzone Karate Championship
2. Third Place – Women's Netball Championship
3. Fourth Place – Men's Netball Championship

Inter-University Team Selections

Name	Team	Department
Nidhin Biju	Netball	EC
Jomi Joju	Netball	BM
Joshna B Ann	Netball	BT
Raina Shaju	Netball	CS
Malavika Chandran	Karate	BM

These outstanding achievements highlight the dedication, hard work, and sportsmanship of our students. We extend our heartfelt congratulations to all the participants and winners and look forward to even greater success in the future!

9.0 NATIONAL SERVICE SCHEME:

- The Graduation Day for the Batch of 2020-2024 took place on July 6, 2024, at the college auditorium.This memorable event celebrated the academic achievements and future

aspirations of the graduating class.The ceremony commenced at 10:00 AM with the traditional procession of graduatesd future aspirations of the graduating class. The atmosphere was filled with excitement and anticipation as the graduates prepared for their momentous occasion

- Mr.Aldrin Sojan P of NSS unit 316 secured first position in State Level SPEAK UP' JAM competition conducted by rudhirasena on 30th of july 2024 and hence became eligible for Rudhirasena special appreciation Award. The award and the certificate was distributed in the Annual meetup of Rudhirasena on 8th of July at ACE Engineering College, Trivandrum

- The NSS unit 316 of Sahrdaya College of Engineering and Technology distributed the prizes of coupon sold in relation with the "Snehakkoodu" house construction project carried out under the KTU Care flagship programme.Coupons for the project were sold from July 12 to July 16, 2024

- As part of the Swachh Bharat Mission, the NSS Unit 316 of Sahrdaya College of Engineering and Technology organized a cleaning activity at August 10 Pudukkad Railway Station. The program commenced at 9:00 am with an inaugural session led by Station Superintendent Anathalakshmi Madam.

- The NSS units 589 and 316 at Sahrdaya College of Engineering and Technology organized the Independence Day program on August 15, 2024. The event began with an assembly, followed by a welcome speech delivered by the NSS volunteer, Bridget Thomas. The NSS anthem was then performed by our volunteers

- As a part of the efforts of the NSS unit to promote awareness about health, science, and social causes, the National Service Scheme (NSS) organized a Stem Cell Registration Class. The class was conducted on 15th of August after the flag hoisting ceremony at Sahrdaya College of Engineering and Technology

- NSS Unit organized a scrap collection drive to raise funds for the revival of Wayanad. Through their efforts, the volunteers raised a total of ₹4,740, contributing significantly to the revival of Wayanad.

- NSS conducted "ONATHINN ORUNN" Campaign in celebration with Onam festival on September 12. The initiative aimed to provide food for those in need in the Kodakara area by collecting home-cooked meals from students and faculty.

- NSS organized a cleaning drive under the *Swachata Hi Seva* initiative, launched by the Central Government of India. The event took place on 29-09-2024 near Kodakkara, fly over Thrissur.

- We organized a cleaning activity on 22nd September 2024 at Karur Ward 17 Anganwadi as part of the "Swachhata Hi Seva 2024" campaign, a mission led by the Department of Youth Affairs, Ministry of Youth Affairs and Sports, Government of India, in connection with Gandhi Jayanthi.

- NSS Unit successfully organized Sanjeevanam 4.0, a blood donation camp at the multipurpose auditorium of our college,which witnessed an overwhelming response from the college community.

- We conducted an orientation session on the flagship event KTU CARE on 4th January, 2025.

- We conducted an orientation session on the flagship event NRPF on 11th January, 2025. The session was handled by Archana VS, the NRPF Regional Coordinator of Thrissur-Palakkad region and a student at ICCS College of Engineering.

- We organized a commendable initiative titled "Snehakoodu" aimed at building a home for the underprivileged. Through collective efforts, the team managed to collect a sum of ₹4156, which will significantly contribute to the project's funding .
- We organized a Nature Camp for the 2023-25 batch of volunteers at Chimmini Wildlife Sanctuary on Saturday, January 18, 2025 .
- We celebrated "76th Indian Republic Day" on 26th January 2025. The day commenced at 8 am with the Manavageetham sung by NSS Volunteers .

10.0 News @ IEDC:

- On February 9,IEDC Sahrdaya, in collaboration with ICT Academy and Cognizant Foundation, conducted the graduation ceremony of the certificate course "TECH4ALL - Data Analytics."
- On February 26,the Coders Club of IEDC Sahrdaya hosted a GoLang workshop led by Leno Simon, a second-year Electronics and Communication student.
- On March 6,IEDC Sahrdaya hosted a Women's Day poster competition to honor and celebrate International Women's Day.
- On March 8,the Podcast Club of IEDC released an episode about Women's Day.
- On March 22,the Podcast Club of IEDC released an episode about body shaming.
- On April 3,IEEE Sahrdaya, in collaboration with IEDC Sahrdaya, organized the Elementos Treasure Hunt.
- On April 17,the Coders Club of IEDC, in collaboration with the Hardware Club of IEDC, hosted an Arduino workshop.
- On April 19,IEDC Sahrdaya conducted the Burger Challenge: An awareness event about scams.
- On April 22,IEDC Sahrdaya, in collaboration with SCET, conducted the S8 project exhibition.

- The Women Innovation Club and Creative Club organized an orientation session for first-year students, introducing them to influential entrepreneurs and women innovators on 2nd September 2024.

- IEDC Hardware Club, IPR, and Research Club organized a Productathon as part of the orientation program for first-year students to introduce them to innovation and teamwork on 2nd September 2024.

- As part of the IEDC orientation session for freshers, the Media Club hosted an ice-breaking activity titled "Guess the Movie," where teams identified films using emoji-based clues. The event transitioned into the formal introduction of "ORU SAHRDAYA PADAM," a short film directed by talented students on 2nd September 2024.

- IEDC Sahrdaya in collaboration with SIH 2024 held the Smart India Hackathon Prelims in college where various product driven ideas were established on 11th September 2024.

- As part of the IEDC orientation session for freshers, the Media Club hosted an ice-breaking

activity titled "Guess the Movie," where teams identified films using emoji-based clues. The event transitioned into the formal introduction of "ORU SAHRDAYA PADAM," a short film directed by talented students on 2nd September 2024.

- IEDC Sahrdaya in collaboration with SIH 2024 held the Smart India Hackathon Prelims in college where various product driven ideas were established on 11th September 2024.
- A free workshop on 50 entrepreneurial ideas for industrial ventures in Kerala is being held at Kodakara. Organized by Piravom Agropark in collaboration with the Technology Business Incubation Center and IEDC Sahrdaya, the event aims to inspire new business initiatives on 28th September 2024.
- The marketing team selection for first-year students was conducted through a two-day online interview process, beginning with a poll to identify interested candidates. Participants completed introductory activities, answered evaluative questions, and presented PowerPoint proposals outlining their ideas, culminating in the final selection on 12th October 2024.

- "AI Workshop" by Brainbrix, in collaboration with NEC IIT Bombay Cell and IEDC Sahrdaya, was conducted for S1, S3, and S5 students. The session featured Gobish Gopalakrishnan, Gayathri Krishnan, and Dhruvil P. Soni as resource persons on 15th October 2024..

- IEDC Coder's Club at Sahrdaya organized a coding competition and informal interviews, led by Club Lead Leno Simon, to select members from S1, S3, and S5. The event saw enthusiastic participation, with over 30 students from various departments registering on 24th October 2024.
- TEDX SahrdayaCET an International independent Knowledge sharing platform, conducted on 26th October 2024. The speakers were Shijumon Antony, R J Mathukutty,Ajay Balachandran,Nithin Raj,Paul Kronenberg on 26th October 2024.
- IEDC Sahrdaya with its support helped a student start up titled Hibi Probiotics from Sahrdaya under the mentorship of Dr Jibin Jose IEDC Nodal Officer and Prof Marria C Cyriac of Biotechnology Department to achieve a grant of 2 lakhs from Start Up Cell of KTU on 30th October 2024
- Podcast Club of IEDC Sahrdaya did the second episode of the small talk podcast titled Kutty Talk with our host as a part of their All about nothing series hosted by Sherin and had Akhila as guest on 9th November 2024.

11.0 RDC Activities:

- RDC in Association with IPR Cell conducted a seminar session on "Intellectual Property Rights on 25 th June 2024
- RDC in association with IPR cell organized as expert talk on Intellectual Property Rights and Patent Filing on 06 January 2025

12.0 IQAC:

- The KTU-ISO Combined first Internal Audit for the 2024-25 Odd Semester was conducted department wise, encompassing all academic and administrative activities. Audit period was:18/07/2024 to 24/09/2024.
- The pre-qualifier for NBA accreditation for the B.Tech Electrical and Electronics Engineering (EEE) program was submitted on 1st November 2024 and SAR was submitted on 30/12/2024
- NBA compliance report for the departments of Biomedical Engineering (BME), Biotechnology (BT), Computer Science Engineering (CSE), and Civil Engineering (CE) formally submitted to NBA on 19/12/2024.
- Staff Development Program on Preparation of Autonomy from OBE & NEP Perspective towards better Accreditation by Dr. U P Kulkarni (Professor & HoD, Dept. of CSE, SDM College of Engg. & Tech., Karnataka) was conducted on 19/11/2024
- KTU-ISO Combined second internal audit for the academic departments' 2024-25 Odd semester was conducted from 25/11/2024 to 4/12/2024.
- Successful upload of the Annual Quality Assurance Report (AQAR) for the academic year 2023-2024 was done on 31st December 2024.
- As part of our continuous quality improvement efforts, we conducted an awareness session on Outcome-Based Education (OBE) and NBA Accreditation for first-year engineering students.

13.0 Industry Institute Interaction cell (IIIC):

- **Eight MoU signed**
  1. White Matrix – Software Development (CSE) | Duration: 12 Sep 2024 – 11 Sep 2025 | Scope: Skill Training, Internships, Placements
  2. NASSCOM – Skill Development (CSE) | Duration: 1 May 2024 – 1 May 2027 | Scope: Skill Training, Internships, Placements
  3. CYGNUS – Software Industry (CSE) | Duration: 1 Mar 2024 – 1 Mar 2026 | Scope: Skill Training, Internships, Placements
  4. Tiltedu Private Limited – Skill Development (CSE) | Duration: 23 May 2024 – 22 May 2026 | Scope: Skill Training, Internships
  5. Cygnus IT Solutions – IT Skill Development (CSE) | Duration: 6 Aug 2024 – 5 Aug 2024 | Scope: Knowledge sharing, mutual learning, and innovation
  6. Meditrix Solutions Pvt. Ltd – Healthcare IT Solutions (BME) | Duration: 5 Feb 2024 – 4 Aug 2024 | Scope: Training and Skill Development
  7. Waves Electronics Pvt. Ltd – Electronics Manufacturing (EEE) | Duration: 8 Oct 2024 – 9 Oct 2025 | Scope: Industry-Academic Interaction Programme
  8. Kerala Electrical & Allied Engineering Co. Ltd – Electrical Engineering (EEE) | Duration: 18 Nov 2024 – 17 Nov 2027 | Scope: Training and Skill Development.

- Mr. Isham Mohamed, Software Developer at Soti India Pvt Ltd, and Mr. Jobel Johny, Software Developer II at Soti India Pvt Ltd, conducted a session on *Web Development Using Angular* for CSE students (08/10/2024 - 09/10/2024) .

- Mr. Elwin Jose, Technical Support Analyst at Soti India Pvt Ltd, delivered a talk on *Augmentation Reality Using Unity* for CSE students (08/10/2024 - 09/10/2024).

- Mr. Sunil Kumar, Solution Architect Outsystems and Certified Trainer at Headfitted Solutions, presented a session on *Track Your Career with LowCode using OutSystems* for S8 CSE Students on 24/09/2024.

- Mr. Akhilesh K S, L&D Specialist at TILTEDU, and Mr. Naveen Sankar, Operational Manager at TILTEDU, hosted an *Online Info Session on Augmented Reality/Virtual Reality* for S8 CSE students on 22/07/2024.

- Mr. Akhilesh K S, L&D Specialist at TILTEDU, and Ms. Ajith Kumar S V, Unity Trainer at TILTEDU, led a *5-day Bootcamp on AR/VR* for S6 CSE Students from 05/08/2024 - 09/08/2024.

- Mr. Ajith M, Senior Engineer R&D at Hykon India Ltd., delivered a session on Introduction to Design of Electric Vehicles as per AIS for EEE on 07/11/2024

- Mr. Anith T.A, Director of ONES Academy, conducted an Orientation for the Graduate Aptitude Test in Engineering (GATE) for CE students on 09/08/2024.

- CAD Centre Kodungallur organized a Three-day Software Training Program on REVIT, RHINO, and GRASSHOPPER for CE students from 24/09/2024 - 26/09/2024.

- A Site Visit to Chimney Dam and Ceecon Ready Mix Plant was conducted by CE department on 14/10/2024.

- A Site Visit to Highway Bridge Constructions was arranged in collaboration with Cherian Varkey Constructions, Azheekode by CE on 23/10/2024.

- Treasa Allen, Process Engineer at Johnson & Johnson, delivered a talk on Goals and Performance for ECE students 25/07/2024.

- Sivasubramanyam, Application Engineer at CoreEl, conducted a session on Signal Processing using MATLAB at ECE department from 22/08/2024 - 23/08/2024.

- Godson C S, Developer at UST Global, hosted an interactive session titled Tea with a Developer for ECE students on 27/09/2024.

- Christa Babu, Project Engineer at UST Global, delivered a session on How to Excel in Interviews for ECE students on 29/09/2024.

- SOJ Thomas, Head of Engineering at Bosch Global, held Discussions with the Department of ECE for ECE students on 14/10/2024.

- Mr. Libin T, Associate Director at CDAC, conducted a session on Vega Boards for IoT Applications, ECE students on 16/10/2024.

- Dr. Alex P James, Dean of External Linkages at DUK, led a workshop on Neuromorphic Computing for ECE on 28/10/2024.

- The NIELIT Team conducted a session on FPGA-based Prototyping using VHDL, ECE students from 22/08/2024 - 23/08/2024.

- BRSI, BEATS Association, and BiOZEEN organized a Two-day Workshop on the Biopharmaceutical Industry and Operations, BT students from 01/08/2024 - 02/08/2024.

14.0 IEEE CHAPTER @ SAHRDAYA:

IEEE Achievement at a glance

Gold Medal Award: IEEE R10 (Asia Pacific) Regional Exemplary Student Branch Award 2024.
Bronze Medal Award: Darrel Chong Student Activity Award 2024 for the Altair 2.0.

Outstanding Volunteer Award: Mr. Robin Francis, Chair of IEEE Sahrdaya SB, received the IEEE R10 Outstanding Volunteer Award. He was also awarded with Outstanding Volunteer Award in TechX IEEE Community for his leadership in successfully conducting TechXInfinia, the most innovative and diverse TechX event of 2024.

Best Event Award: IEEE Sahrdaya SB was honored with the Best Event Award 2024 for TechX Infinia in the Kerala Section.

Outstanding Student Branch Award: IEEE Sahrdaya SB was recognized with the Outstanding Student Branch Award in the Kerala Section.

Global Recognition: Alba Benny of Computer Science and Engineering was recognized as one of the winners of the 2024 Manga Story Contest for the story "Reko-chan and the Smart Medsbox", published at the global level.

Infinia: Where Imagination Meets Technology is a premier international event organized by IEEE Sahrdaya Student Branch. Held from the 27th to 29th of September, 2024, this 3-day flagship event brought together innovators, technologists, and thought leaders from around the globe. With the central theme of uniting imagination and technology, Infinia provided a platform for knowledge exchange, collaboration, and groundbreaking innovations across multiple domains.It featured workshops, talks, expos, and a hackathon, all designed to ignite creativity and push the boundaries of what is possible in the ever-evolving world of technology.

Event conducted by IEEE

- The IEEE Computer Society Kerala Chapter, in partnership with the Women in Computing Committees (WICC) of SCET, CEC, GEC, and RSET, successfully hosted a talk on "Exploring the Crucial Role of Cybersecurity in the Internet of Things (IoT)" as part of

INFORMATYKA 4.0 on July 21, 2024. The event featured Mr. Riyaz Ahmed, a research scholar from VIT-AP University, who provided critical insights into the vulnerabilities and security challenges of IoT systems.

- On July 20th, the IEEE Sahrdaya Computer Society launched the first quiz of the GenX series, titled "AI and DSA". This event, part of a series of six quizzes hosted by different society chapters under IEEE Sahrdaya SB, was held at 7:00 PM on the Quizziz platform. The quiz focused on Artificial Intelligence (AI) and Data Structures & Algorithms (DSA), attracting a significant number of IEEE members.

- The IEEE Education Society of Sahrdaya Student Branch conducted the "EduQuest Trivia" event under the GenX Quiz Series on 22nd July 2024 at 7:00 PM. The quiz was conducted on the topic "The Evolution of Education" and it was attended by 46 participants.

- The Department of Computer Science and Engineering, in collaboration with TILTEDU and IEEE Computer Society, organised an online information session on Augmented Reality and Virtual Reality on July 22, 2024. Resource persons from TILTEDU provided insights on AR/VR technology and its applications. Event aimed to raise awareness and generate interest in an upcoming AR/VR bootcamp. The Session for S7 students was conducted online on 22nd July,2024 whereas the session was offline for S3 and S5 students on 8th August 2024. In total, the event had 471 participants.

- The IEEE Sahrdaya EMBS Society is hosting a quiz named 'Bio Medley' as part of the GenX series. Topics included both biotechnology and biomedical fields. It was conducted on the online quiz platform 'Quizizz'.

- IEEE Sahrdaya SB conducted an online quiz named 'LUMA' on quiziz.It was conducted on 26th July .The event mainly focused on testing the knowledge of students on topics of light.

- The "Signal Savvy" event, hosted by IEEE Signal Processing Society Sahrdaya SB, and Sahrdaya College of Engineering and Technology, was a resounding success. Held on July 28th, 2024, the signal processing quiz competition saw nearly 41 participants all vying to test their knowledge and skills in signal processing.

- The IEEE Sahrdaya WIE Society organised the "Stellar Women in Tech" quiz competition on July 30, 2024, at 7:00 PM via Quizizz, aiming to celebrate the achievements of women in technology and space exploration.

- The Department of Computer Science and Engineering, in association with IEEE Computer Society Sahrdaya SB, conducted a 5-day Bootcamp on 'AR/VR' to enrich the peers on the potential of AR/VR and its application in various industrial domains.The 5-day Technical Bootcamp on Augmented Reality (AR) and Virtual Reality (VR), held from the 5th to 9th of August 2024 at Sahrdaya college of Engineering and Technology, was an immersive experience aimed at equipping participants with practical knowledge and hands-on skills in AR/VR development. The bootcamp featured expert sessions led by Mr. Akhilesh KS and Mr. Ajith Kumar S V from TILTEDU.

- TINKERHUB, in collaboration with IEEE CS KERALA CHAPTER and the WICC of SCET, CCE, GEC, and RSET, successfully hosted the Kickstart Capture The Flag (CTF) competition as a cornerstone of INFORMATYKA 4.0. Held on August 10th, 2024 from 9.00 am to 4.00 pm, at the DB Lab of Sahrdaya College of Engineering & Technology (Autonomous), the event brought together cybersecurity enthusiasts to test their skills and knowledge in a competitive yet supportive environment.

- The Department of Computer Science and Engineering, in collaboration with IEEE Computer Society Sahrdaya, organized a LaTeX training session for the Biomedical Engineering students of Sahrdaya on August 23, 2024. The session, led by Ms. Sonu Bijoy and Ms. Pyari M., aimed to introduce students to the basics of LaTeX and its practical applications in document preparation.

- The Department of Computer Science and Engineering, in association with TinkerHub and IEEE Computer Society , conducted a 1-day workshop on Git & GitHub to enrich the students of Computer Science on the potential of Version Control & Open Source Contribution in current industry. The workshop was held on 27th August, 2024, at Sahrdaya College of Engineering and Technology.

- The Department of Computer Science and Engineering, in collaboration with IEEE CS Sahrdaya, organized an educational outreach program at St. Joseph E.M.H.S.S, Aloor, on August 30, 2024. A team of five students from the seventh semester of Computer Science and Engineering conducted an engaging session on "AI and Its Future" for higher secondary students.

- The Membership Development Session of the LAUNCHPAD took place on September 23, 2024, between 7:30-8:30 PM Google Meet. Conducted jointly by IEEE IAS SAHRDAYA College of Engineering and Technology, IEEE PELS Government Engineering College Thrissur, IEEE IAS Jyothi Engineering College Cheruthuruthy, and IEEE IA/IE/PELS JT CHAPTER KERALA, it was coordinated by Sreepriya S,Abel Jose AND Alphin Dominic.

- The event titled "Design of Electric Vehicle Using MATLAB Simulink" was conducted on September 25, 2024 from 7:00 PM to 8:00 PM on Gmeet. The event was conducted by the IEEE Power Electronics Society (PELS) at Government Engineering College Thrissur, IEEE Industry Applications Society (IAS) at Jyothi Engineering College Cheruthuruthy, IEEE IAS at SAHRDAYA College of Engineering and Technology and the IEEE IA/IE/PELS Joint Chapter Kerala.

- Infinia: Where Imagination Meets Technology is a premier international event organized by IEEE Sahrdaya Student Branch. Held from the 27th to 29th of September, 2024, this 3-day flagship event brought together innovators, technologists, and thought leaders from around the globe. With the central theme of uniting imagination and technology, Infinia provided a platform for knowledge exchange, collaboration, and groundbreaking innovations across multiple domains.It featured workshops, talks, expos, and a hackathon, all designed to ignite creativity and push the boundaries of what is possible in the ever-evolving world of technology.

- The Department of Computer Science and Engineering, in association with IIIC and IEEE Computer Society , conducted a 2-day workshop on Web Development using Angular to enrich the students of Third year Computer Science on the potential of Angular in current industry. The two-day workshop on Web Development Using Angular was held on October 8-9, 2024, at Sahrdaya College of Engineering and Technology.

- The Department of Computer Science and Engineering, in association with IIIC and IEEE Computer Society , conducted a 2-day workshop on Web Development using Angular to enrich the students of Third year Computer Science on the potential of Angular in current industry. The two-day workshop on Web Development Using Angular was held on October 8-9, 2024, at Sahrdaya College of Engineering and Technology.

- The Department of Computer Science and Engineering, in association with IIIC and IEEE Computer Society , conducted a 2-day workshop on Augmented Reality using Unity to enrich the students of Third year Computer Science on the potential of Angular in current industry. The two-day workshop was held on October 8-9, 2024, at Sahrdaya College of Engineering and Technology.

- IEEE IAS SBC RSET, IEEE PELS SBC CCE, IEEE IES SBC Sahrdaya, and IEEE PELS SBC KMEA hosted an online talk session on the topic "Resilient and Adaptive Electrical Systems for Net-Zero Energy Buildings," on 09th october as a part of La Guerre 2.0. The event featured an insightful presentation by Mohammed Sajin S, Chartered Engineer and State Council Member of the Institution of Engineers India, who discussed the significance of net-zero energy buildings and the role of resilient electrical systems, including smart grids and energy management technologies.

- The NEC IIT Bombay Cell, in association with Department of Computer Science (ACES) ,IEEE Computer Society and IEDC Sahrdaya, conducted a 1-day workshop on AI using GenAI Sprint by Brainbrix to enrich the students of Computer Science on the potential of AI in current industry. The workshop was held on October 15, 2024 from 10.00 am to 4.00 pm, at Sahrdaya College of Engineering and Technology.

- IEEE SAHRDAYA SB organized a session called "SOLDERING PRACTICE AND AURDINO BASICS" on 15th October 2024 from 10 am to 4:20pm at EEE Computer Lab under CONTROL SYSTEM SOCIETY. This fabulous section was led by PROF. ADARSH SR , professor of EEE department in Sahrdaya College of Engineering and Technology.

- The IEEE Computer Society of Sahrdaya SB successfully conducted a one-day hands-on workshop, WEBSPHERE, on 14th January 2025, from 9:00 AM to 4:00 PM.

- IEEE Sahrdaya SB conducted the Award Day Ceremony on 3rd January 2025 from 1:00 PM to 4:00 PM at Multipurpose auditorium with Prof. Muhammed Kasim S (Chair, IEEE Kerala Section) as the distinguished chief guest..

- IEEE Sahrdaya SB conducted the Annual General Meeting (AGM) 2025 on 16 January 2025 from 2:30 PM to 04:00 PM at Multipurpose auditorium.. Dr. Leon Ittiachen (Director, SCET) delivered the inaugural address and conducted the inaugural ceremony, including the inauguration of the IEEE Robotics and Automation Society (RAS) SBC of Sahrdaya SB (SBC65601L), highlighting the role of IEEE in promoting technological excellence.Mr. Robin Francis (Former Chairperson,IEEE Sahrdaya SB) was appreciated for receiving the IEEE R10 Outstanding Volunteer Award.

15.0 Anti-ragging, Anti Narcotic, Anti Alcoholic & Anti-Tobacco cell:

Anti-Ragging Cell and Anti-Narcotic-Tobacco- Alcohol Cell conducted an awareness talk on "RAGGING, ALCOHOL, NARCOTIC & TOBACCO Abuse" for the second year students. The talk was conducted in multipurpose indoor stadium on 17th October 2024. Sri. P K Das (Cl of Police, Kodakara), Sri. N Sankar (Excise CI, Irinjalakuda) and Sri. Santhosh Kumar A V (Para Legal Volunteer, Taluk Legal Services Committee, Mukundapuram), were the resource persons. Sri. P K Das shared some real incidents happened during his work.

16.0 <u>CENTRAL LIBRARY & NDLI CLUB:</u>

- Department of Computer Science and Engineering 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 AND IEEE Xplore Digital Library Training for the Teaching and non -teaching Staffs on 10th May 2024.
- Central library conducted a Digital poster making Competition on 28th June 2024, as a part of National reading day celebration
- Department of Biomedical Engineering in collaboration with NDLI Club conducted a virtual live webinar on "Cervical cancer screening and prevention Things you should Know" Conducted by Dr Laiza Jubee Consultant Gynaecologist K. G Hospital ,Angamaly on 2nd Oct 2024.
- Department of Biomedical Engineering in Association with NDLI Club conducted Online webinar on "The Musculoskeletal System" Conducted by Dr Varghese Thomas (MBBS, MD) Orthopedic surgeon, Pushpagiri Medical College, Thiruvalla on Oct 19 2024.
- Department of Computer Science and Engineering in association with NDLI Club conducted "Tech Trivia" on Oct 26 2024.
- The Central Library conducted a training program on IEEE Xplore Digital Library on Friday, 22 Nov at 12:45 PM at the Multi-Purpose Auditorium for the first semester students.
- Electrical and Electronics Engineering Department in association with NDLI club conducted a Quiz on Current Affairs on 3rd Jan 2025.

17.0 <u>OTHER IMPORTANT PROGRAMES:</u>

- The inauguration of the first-year classes, "Sameeksham 2024," was held on September 7, 2024, at the multipurpose indoor stadium. Mrs. Dimple Reeshen, Counseling Psychologist and life skill trainer, handled both the inauguration and the motivational address

- The Autonomy Declaration ceremony was conducted on 7th October 2024 at Sahrdaya Indoor Stadium. The ceremony was inaugurated by Shri. Sreedharan Pillai, Hon'ble Governor of Goa.

- AI excellence Certification ceremony and Inauguration of AI skills lab took place on 25th January 2025. The ceremony was inaugurated by Dr. R. Bindu (Hon'ble Minister for Higher Education & Social Justice, Government of Kerala). Certificates were given to students and faculty those who have completed AI certification training certified by Intel and DELL.

- Arts day – "SARGAM 2K25" for the academic year 2024-25 was celebrated on 21st & 22nd February, 2025. Mr. Joshi Kalabhavan, Cine Artist inaugurated the function. The following students were selected as the best performers of Arts Day;

Sargathilakam - Anamika krishnan V - S4 CSA

Sargaprathibha - Aldrin sojan P - S6 CSA

Kalathilakam – Keerthana Hari - S6 BT

Kalaprathibha - Adithya Anupkumar - S4 ECE

- College Day 2025 was conducted on 1st March 2025.

18.0 Conclusion:

I thank our Chairman, Board of Trustees, Members of Academic Council, Faculty members, Staff and Students for their cooperation help and Support for the development of Sahrdaya.

Dr. Nixon Kuruvila
Principal