



INSTITUTION VISION

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



Chairmans Message

The vision of Sahrdaya College of Engineering and Technology has always been providing quality education to the society as well as ensuring its stake in the betterment of the society. And, proudly we could say that this motto has been upheld by the Institution throughout its tenure. One of the most delightful news for Sahrdaya during last semester was that four of the engineering programs have been accredited by National Board of Accreditation (NBA). I would like to appreciate the whole Sahrdaya team for this wonderful achievement. I am sure that with this milestone and with the right spirit, together we could move forward to our dream of achieving Autonomous status. May god almighty bless us in our efforts towards that. I also understood that Sahrdaya conducted numerous academic as well as non academic endeavors during this period, including the prestigious Techfest named TEKWIZA, which was a huge success with its immense participation from academic enthusiasts as well as students. Special congratulations to all the organizers.

This time I see that the College Newsletter - Techno Beads, included more news items pertaining from diverse fields. Regards for the team. With the new issue of the College Newsletter, I sincerely hope that Sahrdaya will continue to chisel golden letters into the pages of history.

Mar Pauly Kannoorkadan

Mar Pauly Kannoorkadan
Bishop of Irinjalakuda Diocese

INSTITUTION MISSION

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

COLLEGE STUDENT'S COUNCIL FOR THE ACADEMIC YEAR 2022-2023 WAS FORMALLY FORMED ON 9TH DECEMBER 2022.

OFFICE BEARERS OF THE STUDENT COUNCIL 2022-2023



Anusree K
Student Council Staff Advisor



Mohammed Nazeem (Final year EC)
Chairperson



Lakshmi K (Final year BT)
Vice chairperson



Lenin Lawrance
(Final year EEE)
General Secretary



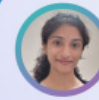
Mohamed Fahd
(Final year CSB)
Arts Secretary



Fathu Mohamed
(Third year BM)
Joint Arts Secretary



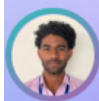
Yashwanth Vijayan
(Third year CE)
Magazine Editor



Gayathri Haridas
(Third year BT)
Joint Magazine Editor



Shano Williams
(Final year BM)
Sports Secretary



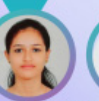
Azeesh George
(Third year EC)
Joint Sports Secretary



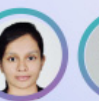
Jino James
(Third year BM)
Rep 1 to the University



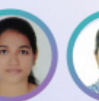
Anandh
(Final year CE)
Rep 2 to the University



Ashwarya K Sricha Binoy
(Second year CE First year CE)
Girl Representative 1



Joveena Jose
(Second year EEE)
UG Representative



Theresa Davis
(Second year CSE)
PG Representative

FOUR PROGRAMMES OF SAHRDAYA COLLEGE OF ENGINEERING & TECHNOLOGY ARE ACCREDITED BY NATIONAL BOARD OF ACCREDITATION (NBA).

Sl No	Program	Score	Status
1	B.Tech Biomedical Engineering	677	Accredited
2	B.Tech Biotechnology	710	Accredited
3	B.Tech Computer Science & Engineering	679	Accredited
4	B.Tech Civil Engineering	665	Accredited



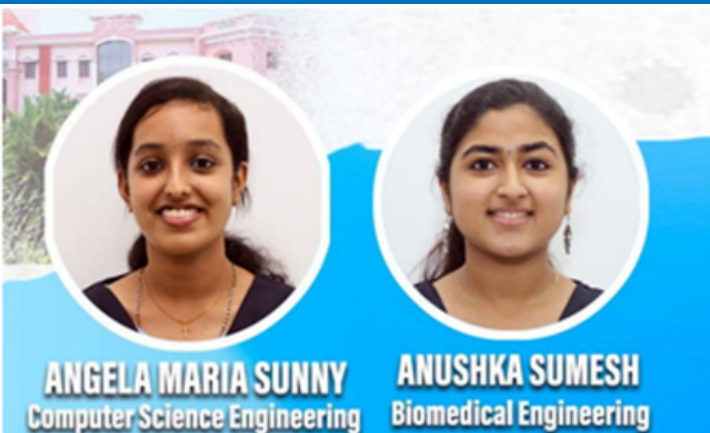
FOUR PROGRAMMES HAVE BEEN ACCREDITED BY NATIONAL BOARD OF ACCREDITATION

BIOMEDICAL ENGINEERING

BIOTECHNOLOGY ENGINEERING

COMPUTER SCIENCE ENGINEERING

CIVIL ENGINEERING



ANGELA MARIA SUNNY
Computer Science Engineering

ANUSHKA SUMESH
Biomedical Engineering

Angela Maria Sunny of second year CSE & Anushka Sumesh of second year BME, secured a CGPA of 10/10 for the second semester university examination.

- “Sameeksham”, the Inauguration of 2022 batch and the Fresher’s Day was held on 31st Oct 2022. Manager of Sahridaya College of Engineering and Technology, Msgr. Fr. Joy Paliakara was the Chief Guest of the Day.
- The 16th convocation ceremony of the 2017-21 batch of B.Tech students and 2019-21 batch of M.Tech students was held on 25th October 2022.



- The Sahridaya Engineering College Alumni Association (SECAA) organized “ALUMNI MEET 2022”- a programme to facilitate Alumni Activities at Decennial Block on 31st December 2022. The meet acted as a venue to reconnect with the Alumni of 2006 -2010, 2007-2011 and 2008 -2012 batches.



- PTWA was conducted for S7 on 18th November, S5 on 21st November and S3 on 22nd November 2022 respectively.
- The Annual TechfestTekWiza was conducted on 2nd and 3rd of December 2022



TRAININGS & PLACEMENTS

- External Aptitude Training (40 hours) was given for the 2019-2023 batch students from 04th June 2022 onwards.
- External online Technical Training (30 hours) was given for the 2019-2023 batch students from 02nd July 2022 onwards.
- Student Induction Program for 2022 batch students was conducted from 19th Oct 2022 to 28th Oct 2022. Invited sessions were conducted, related to Universal Human Values. The program was coordinated by Ms. Vini Jose, Training & Placement Officer, Sahridaya.
- A talk was arranged for S1 students and their Parents on the topic “Growing into responsible adulthood: how Parents can facilitate the process?” It was held on and the resource person was Dr. Sangeetha P L, Clinical Psychologist, COMPASS Clinical Psychology Services.
- Staff Induction Program for the newly joined teaching & Non-teaching faculty was conducted on 18th May 2022.
- An awareness session on NBA visit process was conducted for all the staff and students by Dr. Manoj G Tharian from Rajagiri School of Engineering & Technology on 05th July 2022.

STUDENTS ACHIEVEMENTS

- A project group from BME won 2nd runner’s title in an IEEE project competition YESIST-12 organized at Sri Venkateswara College of Engineering, Bangalore on 10th and 11th September 2022. The student members were - Savio Samson, Sharo William, Sree Lakshmi and Sneha Sunil. The Project Guide was Dr. FintoRaphel, HODBME.
- The project entitled ‘MEDICOLLAR’ of a group from final year BM students guided by Ms. Arathy M won Silver Award with a cash prize of Rs. 20,000 in the TECHFEST-2022, jointly organized by KSCSTE with CUSAT during 26-28 October 2022.
- Abhishek V S, FathimaWafa, Rose Mary Shofy and Vishnu Vishwakumar from S5 Biomedical Engineering participated in a National Level Technical Symposium Techfinix’ 22 at PaavaiEngg College (Autonomous) Namakkal, Tamil Nadu on 22nd October 2022 and won first prize. The project was guided by Dr. Remya George of BME Department.
- Students from S5 and S3 BME department participated in Biomedical Instrumentation workshop conducted as a part of Tathva 22, Techfest at NIT, Calicut on 23rd October 2022.
- The team of Biomedical Engineering students secured second position in the APJAKTU EZone Men’s Basketball held at Jyothi Engineering College.
- Edwin Joshi of third year BTE participated in the E-Zone Kho-Kho competition which was held at GEC Thrissur on 29th November 2022 and bagged third prize .
- Arundhathi P Unnikrishnan, Asmiya M N, Catherin Sunny, Gopika P A, PoojaJayakumar and SnehaSundaranMenonof final year CE batch have successfully completed a 12 week NPTEL course on - Experimental Biotechnology.
- Irine Duke of final year CSE, won Second price in Digital poster making Central Library, SCET and NDLI club in connection with the National Library Week Celebration, 18th of November 2022.
- Parikshith(S7 CSE), Jibin E P(S7 CSE) , Anandhkrishnan(S5 CSE) and Alwin(S7 CSE) won third price in KHO-KHO E-zone held at GEC Thrissur.



- Elwin Jose of final year CSE won 1st prize with Rs.3000/- as cash award in IDEATHON 2022, held at Christ Engineering College on 1st of December 2022.
- Elwin Jose of final year CSE won 2nd prize with Rs. 1000/- as cash award in CONVERZA, held at Christ Autonomous College IJK.
- Elwin Jose of final year CSE Won the Best All Rounder Award with a cash award of Rs. 31000/- by the Bank of Baroda Achieves Award.
- Haris Josin Peter of second year CSE Won 1st price in Hackathon – I5 Organized by IEEE, MEA Engineering College Perunthalmanna
- John Francis, JoselitThayyil and Charles of second year ECE won the runners up title in the sustainability hackathon organized by NASSCOM on 7th, 8th, and 9th of December 2022.
- Joshua Sony C, Joseph, Shyam Krishna and Lakshmi of final year ECE received an idea grant (Idea fest - 2022,Startup mission) of Rs. 2.00 lakh for the project Marble Maze Labyrinth.
- Joshua Sony C, Joseph, Shyam Krishna and Lakshmi of final year ECE under the mentorship of Dr. Arunthomas, won Silver award with a cash prize of Rs.20000/- in Techfest 2022 by KSCSTE.



- Richin, Jomol, Aswathy and Amal of final year ECE under the mentorship of Saran K B received an idea grant (Idea fest - 2022) of Rs. 1.50 lakh for the project Crayo Tank - Top.

FACULTY ACHIEVEMENTS

- ❑ As a part of AAC Device Development Challenge organized by CATI-NISH and APJ AKTU, the faculty advisor, Ms. Reshma Jose, faculty of BME was invited for the prize awarding ceremony by Honourable Minister for Higher Education Mrs. R Bindu on 25th July 2022 at NISH Campus, Trivandrum.
- ❑ Faculty members from BME department of Sahrdaya visited Dentcare Dental Lab Pvt. Ltd, Muvattupuzha on 10th November 2022 to discuss possible collaborations and possibility of student internships and validation of project ideas.
- ❑ Dr. Finto Raphael, Dr. Remya George, Mr. Jibin Jose and Ms. Reshma Jose, faculty members of BME department visited National Institute of Physical Medicine and Rehabilitation (NIPMR), Irinjalakuda on 11th November 2022, for possible academic collaborations.
- ❑ Dr. Yuvaraj V chaired the technical session on “Engineering in Medicine, Biology and e-Health” in IEEE Indicon 2022 organized by IEEE, Kerala section at Cochin University of Science and Technology, Kochi from 24th to 26th of November 2022.
- ❑ Dr. Jis Paul, Assistant Professor in BM Department completed his Ph. D in Biomedical Engineering from Anna University, Coimbatore.
- ❑ On behalf of IEDC Sahrdaya Dr. Jis Paul conducted a Design Thinking Workshop on 9th December 2022 to support Cherpu



Handicraft Industry as a part of Kerala Development and Innovation Strategy Council (K-DISC) programs of One District One Idea Scheme (ODOI).

- ❑ Dr.Amitha Joy, faculty of BTE dept handled a session on Bioinformatics as a skill development program on 27th July 2022 organized at St.Mary's college, Thrissur.
- ❑ Dr. Sunder R, faculty of CSE department, delivered a talk as Keynote Speaker for the first international conference on Neural network and machine learning hosted by the University of Jember, Indonesia on 29th and 30th November 2022.
- ❑ Dr. Sunder R, faculty of CSE department was a Speaker for the Colloquium series hosted by the University of Jember, Indonesia on 25th November 2022.
- ❑ Dr. Sunder R, faculty of CSE department delivered a guest lecture on “Field Exposure visit to incubation unit and patent Facilitation center” held at TheivanaiAmmal college for women, Tamil Nadu on 29th September 2022.
- ❑ Dr. Sunder R, faculty of CSE department gave a Guest lecture given on “Lear Earn connect to professional Courses” held at Mets School of Engineering, Kerala in October 2022.
- ❑ Dr. Sunder R, faculty of CSE department was a Session chair in the IEEE Mysurucon 2022-2nd Edition, International Conference series of IEEE Mysuru Subsection at JSS Science and Technology university on 16th and 17th of October 2022.
- ❑ Dr. Manisankar S, faculty of CSE department was a resource person for a FDP on Elastic Cloud Computing for IoT organized by Presidency University Bangalore on 23rd September 2022.
- ❑ Mr. Willson Joseph, faculty of CSE department was a resource person for a seminar on Universal Human value organized by Dept. of Information Technology, Hindustan College of Engineering and Technology, Coimbatore on 29th September 2022.
- ❑ Mr. Willson Joseph, faculty of CSE department was a resource person for training on Basics of Python organized by The Nature Eye Powered by WildLifearc from 4th to 7th July 2022.
- ❑ Dr.Sukhila Krishnan, ASH Department has completed all the eight modules (MOOC Courses) of AICTE, NITTT.

PAPER PUBLICATIONS & CONFERENCES

- ★ **Reshma Jose., &Chacko, S.** (2022). Liver cancer detection based on various sustainable segmentation techniques for CT images. International Journal of Environmental Technology and Management, 25(3), 166-179. (Scopus)
- ★ **G. Ranimol,Sunkar, S.** (2022). A comparative study of free laccase and laccase immobilized in copper alginate. Indian Journal of Biochemistry & Biophysics 59, 2022; 214-223;(SCIE) CSIR-NISPR
- ★ **John Arun, Joy Amitha*, PadmanMidhila and Praveena P.,** In silico Identification of Potential Small Molecules Targeting Six Proteins in Nipah Virus using Molecular Docking,

Pharmacophore and Molecular Dynamics Simulation, Letters in Drug Design & Discovery 2022; 19, 1-15. <https://dx.doi.org/10.2174/1570180819666220616163540> (SCIE, SCOPUS)

- ★ **Priya K. V., & Peter, J. D. (2022).** A federated approach for detecting the chest diseases using DenseNet for multi-label classification. Complex & Intelligent Systems, 8(4), 3121-3129. (SCIE)
- ★ **Deepa Devassy., Immanuel Johnraja, J., & Paulraj, G. J. L. (2022).** NBA: Novel bio-inspired algorithm for energy optimization in WSN for IoT applications. The Journal of Supercomputing, 1-18. (Scopus)
- ★ **Rajeswari, M., Livya George, D. D., Vaduganathan, D., & Kumar, A. S. (2022)** Customer segmentation in intelligent learning mechanism in E-banking using Frequent Item-set Hierarchical Clustering. (Scopus)
- ★ **Sebastian, J., & Gnana King, G. R. (2022).** Analysis of MRI and SPECT Image Fusion in the Wavelet Domain for Brain Tumor Detection. In Advances in Distributed Computing and Machine Learning (pp. 619-628). Springer, Singapore. (Scopus)
- ★ **KV, Chaitanya Das, and G R Gnana King.** “Brain tumor classification: a comprehensive systematic review on various constraints.” Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization (2022): 1-13. (ESCI)
- ★ **Jinu Sebastian & G. R. Gnana King (2022)** “Comparative Analysis and Fusion of MRI and PET Images based on Wavelets for Clinical Diagnosis” in INTERNATIONAL JOURNAL OF ELECTRONICS AND TELECOMMUNICATIONS (2022), VOL. 68, NO. 4, PP. 867-873, DOI: 10.24425/ijet.2022.143896. (ESCI, Scopus Indexed)
- ★ **Chinnaswamy, S., Rajeswari V., Vijikala V., & Thankaraj, S. (2022).** Analysis of DC and RF performance of Al_{0.31}Ga_{0.69}N/Al_{0.1}Ga_{0.9}N/Al_{0.2}Ga_{0.8}O₃ double quantum well HEMT on silicon carbide substrate. International Journal of RF and Microwave Computer Aided Engineering, e23141. (SCI)
- ★ **Christy Joy, Ms. Marria C Cyriac (2022).** In silico molecular docking and MD simulation analysis of flavonoids as potential inhibitors of SARS CoV-2. in the International Conference on Advances in Biosciences and Biotechnology 2022.
- ★ **Sandra C George, Jiss Prabhu P Tom, Ninju Kuriakose, Roni Shaji, Ambili Mechoor (2022).** In silico studies of flavonoids as potential inhibitors of Rhizopus Delemar in the International Conference on Advances in Biosciences and Biotechnology 2022.
- ★ **Sidharth Menon, Neethu M. Thomas, Aiswarya D. Menon, Meha Christy, Amitha Joy (2022).** Virtual screening for identification of novel drugs for Parkinson’s Disease in the International Conference on Advances in Biosciences and Biotechnology 2022.
- ★ **Angel Davis, Antony Sebastian, Merry Ann, Milna George, Uma Krishnakumar (2022).** Green Synthesized Nanoparticles as a Biofilter Media in the International Conference on Advances in Biosciences and Biotechnology 2022.
- ★ **Marria C Cyriac, ChithraValsan & Leon Ittiacchen (2022).** Investigation on the antibiotic resistance pattern of bacterial isolates from the respiratory tract- A retrospective approach in the International Conference on Advances in Biosciences and Biotechnology 2022.
- ★ **Marria C Cyriac, ChithraValsan & Leon Ittiacchen (2022).** Preliminary Evaluation of Antibacterial Efficacy of a Polyherbal Formulation on Antibiotic Resistant Pathogens in the International Conference on Advances in Biosciences and Biotechnology 2022.
- ★ **Greshma Varghese, Jiffin Joseph, Mariya Mathan, Sourav Vinaya Kumar, Remya George, Finto Raphael.** Automated detection and classification of lung sound using a 3-d printed electronic stethoscope., IEEE Conference on Information & Communication Technology (IEEE CICT-2022) (IEEE Explore)
- ★ **Albin Simon, Rinta Raju, Amith V Unnikrishnan, Mohamed Hashim U P, Remya George and Jibin Jose.** Toybot: an interactive exercise companion for rehabilitation of sedentary and obese children. IEEE Conference on Information & Communication Technology (IEEE CICT-2022) (IEEE Explore)
- ★ **Adorna Lawrence, Alex Abraham Eapen Amitha M P, Rithika Rajith, Remya George and Jibin Jose.** Wearable Smart Cervical Collar with Real-time Rehabilitation of Neck Posture Correction. IEEE Conference on Information & Communication Technology (IEEE CICT-2022) (IEEE Explore)
- ★ **Manasy Suresh M; Vishnu Rajan; Vidyamol K & Gnana King ;** Model Based Design for MISPA Countx using FPGA at the 3rd International Conference on Sustainable Expert Systems (ICES-2022) September 2022. (Springer)
- ★ **İann Mariva Lazar, Ms. Binet Rose Devassy and G R Gnana King** “Real Time Operated Medical Assistive Robot” Congress on Intelligent Systems, 2022.
- ★ **Roshini Mohanan; Jisha Jacob & G R Gnana King** “A CNN Based Underage Driver Detection System” at the 4th International Conference on Communication, Computing and Electronics Systems (ICCCES - 2022) September 2022. (Springer)
- ★ **Chaithanyadas K V & G R Gnana King** “Detection of Pancreatic Tumor from Computer Tomography Images using 3D Convolutional Neural Network at the 6th International Conference on Computational Vision and Bio Inspired Computing (ICCVBIC 2022) November 2022. (Springer)
- ★ **Ms. Divya R,** faculty of CSE department published a paper titled “Eye-Tact: An ensemble based multi-model and multidimensional approach for fall prediction and evaluation in Parkinson’s Disease patients” in Expert Systems , Willey publication.
- ★ **Dr. Krishnadas J,** faculty of CSE department published a paper titled “Ovarian Cysts Classification using novel deep reinforcement Learning with Harris Hawks Optimization Method” in Journal of Super Computing, Springer.
- ★ **Divya R.** faculty of CSE department, presented and published a paper titled “Intelligent Assistance: Enhanced Real-time Patient-



Specific Model for Fall Detection and Evaluation” in 8th International Conference on Advanced Computing and Communication Systems, IEEE. held in December 2022.

- ★ **Mr. Willson Joseph**, faculty of CSE department presented and published a paper titled “Intelligent System with IoT: A survey on techniques of Artificial Intelligence over the field of Internet of Things” in 8th International Conference on Advanced Computing and Communication Systems IEEE, held in December 2022.

BOOK PUBLICATIONS

- Rasmi. A, **R. Sunder** (2022) Artificial Intelligence for Dummies. Notion Press.
- **Gnana King G R.**, Fundamentals of Digital Image Processing. ISBN: 979-888815803-6 (2022)
- **R. Satheesh Kumar**, Handbook of IoT and big data, ISBN : 9789356251410; Scientific international publishing house, (2022)
- Kumar, S., **Sukhila Krishnan.**, & Mohanty, S. (2022). Applications of elastomer blends and composites. In *Elastomer Blends and Composites* (pp. 305-329). Elsevier.

FDP / CONFERENCES - ATTENDED BY FACULTY

- Dr. R. Satheeshkumar, Kumar, S., **Sukhila Krishnan.**, & Mohanty, S. (2022). Applications of elastomer blends and composites. In *Elastomer Blends and Composites* (pp. 305-329). Elsevier.
- Ms. Sreetha E S & Dr. Krishnadas J attended an FDP on “MACHINE LEARNING: A Trajectory through The World of Adaptive Algorithms” in Jyothi Engineering College from 22nd August 2022 to 26th August 2022
- Ms. Deepa Devassy, Ms. Livya George, Ms. Megha K K, Ms. Princy T D and Ms. Uma E S attended an FDP on “Advanced research and quality publication from 29th August 2022 to 2nd September 2022 in Federal Institute of Science and Technology.
- Ms. Anusree K attended an FDP on Artificial Intelligence from 26th August 2022 to 31st August 2022 in Lourdes Matha College of Science and Technology.
- Mr. Krishnadas J attended an FDP on Advancements in image processing applications in SCMS school of engineering and technology from 29th August 2022 to 2nd September 2022
- Ms. Jasmy Davis attended workshop on Masters of Deep learning in Computer Vision from 11th October 2022 to 15th October 2022 in Avinashilingam Institute for Home Science and Higher Education for Women
- Ms. Rehna Baby Joseph and Mr. Willson Joseph attended 7 days FDP on Outcome based education in computer science discipline organized by Marian college Kuttikanam with KSHEC from 8th December to 15th December.
- Dr. Silpa PA has been officially registered as an Indian Patent agent.

TRAININGS & WORKSHOPS

- ★ Dr. Remya George participated in a two day CROSS- DISCIPLINARY National Conference and Hands-On workshop in Knowledge

Translational Research on 16th and 17th of December 2022 held at CUSAT, Cochin organized by Kerala State Higher Educational Council.

- ★ Ms. Marria Cyriac participated in International FDP ‘Advanced Research and Quality Publication’ organized by FISAT, Ernakulam during 29th August 2022 to 02nd September 2022
- ★ Ms. Sujana R attended one day training on ‘Research Design – Reference Management Software & Tools for Literature Survey and Review’ on November 19th 2022 organized by RDC, Sahrdaya College of Engineering & Technology.
- ★ Ms. Ragi C Ravindran attended a 4 week NPTEL course on Stress Management organized by IIT Kharagpur and has secured an elite certificate.
- ★ Ms. Divya, R. presented and published a paper titled “Intelligent Assistance: Enhanced Real-time Patient-Specific Model for Fall Detection and Evaluation” in 2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS) (Vol. 1, pp. 390-395). IEEE.
- ★ Mr. Willson Joseph presented and published a paper titled “Intelligent System with IoT: A survey on techniques of Artificial Intelligence over the field of Internet of Things” in 2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS) (Vol. 1, pp. 347-351). IEEE.
- ★ Dr. Silpa P A completed the AICTE approved faculty development program on “Patent law for engineers and scientists” by NPTEL.
- ★ Ms. Drisya K Sasi, Assistant Professor EEE, attended a 5-day online FDP on “Emerging trends in power electronics and control for electric vehicle and smart grid” organized by the Department of Electrical Engineering, Government Engineering College Palakkad, sponsored by TEQIP-II Four Funds during September 19-23, 2022.
- ★ Ms. Drisya K Sasi, Assistant Professor EEE, attended a 5-day online FDP on “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 31st October to 4th November 2022.
- ★ Ms. Maria Rose K J, Assistant Professor EEE, attended a 5-day online Short Term Training Program on “Advancements in Smart Grid Technologies, ASGT 22” organized by the Department of Electrical Engineering, Government Engineering College Thrissur, sponsored by TEQIP-II September 12-16, 2022.
- ★ Dr. V. Vijikala, Associate Professor EEE, attended a 5-day online FDP on “Emerging trends in power electronics and control for electric vehicle and smart grid” organized by the Department of Electrical Engineering, Government Engineering College Palakkad, sponsored by TEQIP-II Four Funds during September 19-23, 2022.
- ★ Mr. Adarsh SR, Assistant Professor EEE, has successfully completed an online course in Machine Learning in Coursera by 19th September 2022.
- ★ Dr. Sukhila Krishnan attended a one week international Faculty Development Program on “Advanced Research and Quality



EDUCATION IS DEDICATION

Publication”organized by Federal Institute of Science and Technology, from 29th August 2022 to 2nd September 2022.

- ★ Dr. Sukhila Krishnan attended a Five day online Faculty Development Program on “Insights on Emerging research in Chemical Science”organized by School of Sciences (Chemistry), NIT Andhra Pradesh, from 10th October 2022 to 14th October 2022.
- ★ Dr. Sudha George Valavi attended a one week international Faculty Development Program on “Advanced Research and Quality Publication”organized by Federal Institute of Science and Technology, from 29th August 2022 to 2nd September 2022.
- ★ Dr. Sukhila Krishnan, Ms.Swapna Joseph, Ms.Savita Paul, Ms.Vini Valsan, Ms. Lickny I, Ms. Jimi K.J, Ms. Rani Thomas and Ms. Jemsy Antony attended the International Faculty Development Program on “Productive Scientific Discourse”organized by the Department of Applied Science, Vidya Academy of Science and technology from 10th October 2022 to 14th October 2022.
- ★ Dr Joseph Jestin, Librarian attended the Author Workshop APJAKTU : Understanding Research Metrics and Elsevier’s ScienceDirect on Tuesday 22nd November, 2022.
- ★ Dr Joseph Jestin, Librarian attended DELNET-CEMCA Webinar on “Leveraging OERs to Enhance Higher Learning on 30thSeptember2022.

IQAC @ SAHRDAYA

- IQAC Sahrdaya has conducted a one day workshop on Technical Paper Writing using LaTeX on 22nd October 2022 for Seminar, and Project Coordinators (S3, S5,S7) of Sahrdaya.
- IQAC Sahrdaya has celebrated “The world quality week” with a training on Seminar, Project report and Technical Paper Writing using LaTeX on 9th November 2022 for selected final year students.
- IQAC Sahrdaya has conducted a one day FDP on OBE Philosophy and Attainment Calculation for Newly joined Faculties on 17th December 2022. Dr. Uma Krishnakumar (Asst. Professor, BT) and Ms. Sreetha ES (Asst. Professor, CSE) were the resource persons.

RDC @ SAHRDAYA

- ★ A technical session on ‘Research Design – Reference Management Software & Tools for Literature Survey and Review’ was held on 19th November 2022 (10-12.30 PM) by Dr. Nishy P. Chief Scientist, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum
- ★ The Final year project reports of all the departments (2018 Batch) were compiled in the IEEE format and published as Technical transactions and released on 29th November 2022 by our Executive Director Rev. Fr George Pareman
- ★ Research bulletin 2022 (Volume 2) – the research related achievements of the college was released in the BOG meeting (21st December 2022)

NUMBER OF PUBLICATIONS

SI No	Title	Count
1	Journal Publications	10
2	Books & Book Chapters	4
3	Conference proceedings	13

RESEARCH FUND SANCTIONED

SI No	Funding agency	Total funding (Rs)
1	K-DISK	4,57,000/-
2	KSUM	11,60,000/-
3	KSCSTE	3,22,000/-

IEEE & IEDC @ SAHRDAYA

- IEDC in collaboration with Kerala Start-up Mission’s Research Innovation Network Kerala (KSUM- RINK) has showcased the proof of concepts of various technologies developed at our institute with an event named Sahrdaya SCI-FEST as an exhibition on 6th July 2022
- Organized a Lab to Market Roundtable discussion conducted in collaboration with IIIC on 6th of July 2022 with industry experts, government policy makers and representatives from students, faculty members and researchers.
- ICT Academy conducted a workshop on METAVERSE near Cochin International Airport.8 of our students, EXECOMs of IEDC along with Dr.Arun Thomas and Dr.NixonKuruvila attended the workshop.
- Ani-Talk (Innovation talk) was given for budding innovators, by our alumni Mrs. Jismi Jobin.
- A webinar was given to final year students on the topic “Basics of Finance Planning”, in collaboration with NDLI & IEDC Sahrdaya.
- IEDC Sahrdaya in Collaboration with Part Matters Company Conducted a Hach-a-Thon on 4th November to 5th November 2022, to find bright minds of Sahrdayans. It was a Hybrid event consisting of both Offline and Online Screening.
- ZAARA BIOTECH, Product Expo (Biotech Project Expo 2k22) was organized at the Biotechnology Department.
- A Design Thinking Workshop was conducted by IEDC Sahrdaya as a part of Kerala Development and Innovation Strategy Council (K-DISC) - One District One Idea (ODOI) on 9th December 2022.
- IEEE Sahrdaya SB organized the first national flagship event ALTAIR, which consisted of a series of four workshops, talk sessions etc on 11th,12th and 13th of November 2022.

LIBRARY AND NDLI CLUB

- NDLI CLUB In association with EBSA organized a webinar on “Advances in Biomedical Nanotechnology” on 30 December 2022.
- The Department of Biotechnology in association with NDLI CLUB conducted a QUIZ on FIFA WORLD CUP on 20th December 2022.
- Department of Civil Engineering in association with IEDC & NDLI Club conducted a webinar on “Basics of Financial Planning” on 23rd November 2022.



- The Computer Science Department in association with NDLI CLUB & IEDC Sahrdaya conducted a seminar on “Sustainability Practices” on 8th November 2022.
- NDLI CLUB, in association with Anti Narcotic Cell conducted an English Essay Writing Competition on 27th October 2022.
- Department of Electronics & Communication Engineering in association with NDLI CLUB conducted an Industry Interaction on “Business Intelligence & Data Science” on 18th October 2022.

SPORTS & NSS @ SAHRDAYA

- NSS Sahrdaya received Appreciation certificates from Koratty Gramapanchayat and Vellangallur Grama Panchayat for the special camp activities “E-ASSIST” and “KANAVU”.
- Received an appreciation certificate from Vellangallur Krishi Bhavan for successfully distributing 300 saplings.
- In commemoration of World Paper Bag Day, paper bags were made by the NSS volunteers on 7th July 2022 in the Decennial block.
- In accordance with World Ocean Day, volunteers cleaned and collected various waste materials at Chavakkad beach on 17th September 2022 from 8:30 am to 12 pm.
- The Blood Donation Campaign led by RUDHIRA SENA TCR-PKD Region in association with IMA Blood Bank, Thrissur and Lions Club of Kodakara on 1st October 2022 at Kodakara from 9 am - 1 pm. There were 20 students who volunteered to donate blood.



- NSS Unit No. 589 conducted its seven day special camp “Kanavu 2022” from 25th December 2022 to 31st December 2022 at G.U.P.S Karumathra, Vellangallur Panchayat.
- Sahrdaya team secured second position in APJAKTU E zone Basketball Men tournament held on 16th and 17th November, 2022.
- Sahrdaya team secured the third position in the APJAKTU E-Zone Men’s Kho-Kho Tournament held at Government Engineering College, Thrissur on 29th and 30th December, 2022.



- Inter zone karate championship was held at MA college Kothamangalam on 19th and 20th December 2022. The team qualified to semifinal.



TECHNICAL ASSOCIATIONS @ SAHRDAYA

EBSA (BME Association)

- The biannual newsletter of Biomedical department **SILENCE - 2022 - Volume 9 Issue 1** was released on 10th August 2022.
- The students of S5 BM visited the HOSPEX HEALTHCARE EXPO EVENT conducted at Adlux International Convention Center hosted by Aster Medicity in association with IMA and ISA on 24th September 2022.
- S7 BM students visited Dentcare Dental Lab Pvt Ltd in Muvattupuzha, Ernakulam which is the largest dental lab in Asia and ISO 9001:2008 and EN ISO 13485:20012 certified on 1st October 2022 to familiarize different world-class dental prostheses products.
- 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 28th and 29th of October 2022.

BEATS (BTE Association)

- An Industrial Visit to Rubber Board Kottayam was organized on 29th September 2022 for final year students.
- An Expert Talk was arranged for S5 and S7 students in Sustainable Energy Processes by Ms Amrita Basanth, UKF College of Engineering and Technology on 18th October 2022.
- An alumni interaction was arranged for third semester biotechnology students on 18th October by Ms Amrita Basanth, UKF College of Engineering and Technology.
- In connection with World Science Day for Peace and Development, an exhibition on products developed by BT students was arranged by BRSI and Zaara Biotech Pvt. Ltd on 18th November 2022

EMAGE (ECE Association)

- Star innovations conducted hands-on training for third semester students during 13th-15th October 2022.
- Department of ECE in association with NDLI club Conducting an Industry interaction on Business Intelligence and Data science on 18th October 2022 by Anagha Valsakumar
- The Department of ECE conducted an expert talk on Latest TRENDS IN TECH INDUSTRY on 10th October 2022 by Christo P.B.
- Third semester students visited Industrial maker village and Farm fresh zone on 23rd November 2022.

ACES (CSE Association)

- CSE Association, ACES conducted a Cloud computing and web program workshop for S7 students. The sessions were handled by Mr. Sony George and his team from ZH Health care, Inc, Kochi on 18th November 2022.
- CSE Association, ACES conducted a full day workshop for S7 students. The session was handled by Ms. Anagha S, Senior Analyst, Accenture Bangalore on 19th November 2022.
- ACES Conducted a two day workshop “TF- AROUND TOOGLE” from 2nd December to 3rd December 2022. The session was handled by Mr. Don C. John, Software Developer, Qburst and Mr. Prasoon Kottarathil, Machine learning training program facilitator and engineer in NVIDIA.
- ACES in association with TCS, had conducted a one-day workshop on ADVANCED PYTHON AND AUTOMATION on 2nd and 3rd December 2022. Mr. Ashwin Joy, Mr. Ajith S, and Mr. Akhil P A, the technical trainers of TCS handled the session.

PACE (CE Association)

- ❑ A Three Day Workshop on AutoCAD was organized by the Department of Civil Engineering from 06th-8th October 2022 for S3 CE 2021-25 Batch in collaboration with CAD Centre.
- ❑ Association Day was conducted by the Department of Civil Engineering on 24th November 2022. A technical talk on Building Rules - KBR 2019 was given by Er. Pradeesh P B, Assistant Executive Engr, Chalakudy Block Panchayath.
- ❑ Civista 2022 was conducted in connection with TekWiza 2022 - a techfest on 2nd-3rd December 2022. The technical events were Build it High, Clueminati & CAD Mania. A workshop on SketchUp was also conducted.

AESON (EEE Association)

- ❑ Department of EEE in association with AESON conducted an add on course on “Autocad with MEP Electrical” from 26th September 2022-1st October 2022 for S7 EEE students. The session was handled by Vineeth Narayan and Rajeesh M, CADD Centre Kodungallur.
- ❑ Department of EEE in association with AESON conducted an “Hands on workshop on PCB Design” for S3 EEE Students from 14th-15th October 2022. The session was handled by Mr Midhun C, Electronics CADD Engineer, Design Alpha.
- ❑ Department of EEE in association with AESON conducted an “Hands on training session on Eyantra

Robot Firebird V” for S5EEE Students from 20th -21st October 2022. The session was handled by Mr. Saran KB, Assistant Professor Department of ECE, SCET, Kodakara.

- ❑ Department of EEE in association with AESON conducted an Alumni interaction for S3 EEE students on 31st October 2022. The session was handled by Ms Nehakrishnakumar, Systems Engineer, TCS

GLIMPSES @ SAHRDAYA



Flag hosting ceremony was conducted during the 75th Independence day on 15th August 2022



The Wall Doodle Designed by IEDC Students.