



### 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

*We are all aware that we are in the midst of a global crisis on a scope never seen before. But I have always believed that there will be great opportunities along with great challenges.*

*Sahrdaya College of Engineering and Technology keeps moving forward. We Sahrdayans will not allow a global epidemic to prevent any of us from achieving our goals in the future. Sahrdaya College of Engineering and Technology has always endeavored to provide the greatest curricular, co-curricular, and skill-development programmes in order to develop talented engineers for our country. Sahrdaya has consistently demonstrated proficiency in providing a project-based learning method, which aids in improving learning. Through the project-based learning method, engineers who are skilled and ready for industry are being promoted. Through different social activities, Sahrdaya has always shown its social responsibilities. I am delighted to report that Sahrdaya has always served the nation by producing qualified professionals through its excellent education. Here is yet another issue of the college newsletter, "Techno Beads." I sincerely hope that Sahrdaya will continue to chisel golden letters into the pages of history.*

*Mar Pauly Kannookadan*

**Mar Pauly Kannookadan**  
Bishop of Irinjalakuda Diocese



### Welcome



**Msgr. Joy Paliakkara,**  
Manager SCET

### Farewell



**Msgr. Prof. Dr. Lazar Kuttikadan,**  
Manager SCET

### SPECIAL EVENTS & ACHIEVEMENTS

- ◆ NAAC Reaccredited with B++ Grade with a score of 2.91/4.
- ◆ ICT Academy of Kerala has recognized Sahrdaya as the premium member. The membership is valid till 131/07/2022.
- ◆ A four day online faculty enrichment program in various future skills is conducted for all faculty members from 24/08/2021 to 27/08/2021.

### 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.

- ◆ The NSS Sahrdaya Unit no. 589 of KTU NSS CELL, SCET (SCET), Kodakara on occasion of 75<sup>th</sup> Independence Day on 15<sup>th</sup> August 2021, conducted Flag Hoisting Ceremony in college campus & a webinar by Shri. Rahman Mathilakam, Environmentalist.



- ◆ Placement Day of the year 2020-2021 is conducted on 16/08/2021. The event included honoring meritorious students of various branches and a send off to our beloved Manager, Msgr. Prof. Dr. Lazar Kuttikadan. Mr. Viswanath V.S., HR Head, TCS Cognitive Business Operations, Kerala, was the Guest and His Excellency Bishop Mar Pauly Kannookadan, Chairman of IDET and Sahrdaya Group of Institutions presided over the function.
- ◆ Our college organized a free 14 hours crash course during 11/10/2021 to 21/10/2021 to help diploma students for preparing for the Lateral Entry Entrance Examination.
- ◆ ICC (Women Grievance cell) of our college in association with 'KERALA WOMEN'S COMMISSION' arranged a Webinar on the topic "Premarital legal Awareness" on 09/10/2021 through Webex platform.
- ◆ Student Induction Programme for 2021 Batch conducted during 22/11/21 to 29/11/21.
- ◆ The ADIEU'21, official send-off function of B.Tech 2017-2021 batch was conducted online via Webex Platform on 24/07/2021.
- ◆ Sameeksham 2021: 20<sup>th</sup> Academic Year Inauguration for 2021-2025 batch students was held on 29/11/2021. Our chairman Bishop Mar Pauly Kannookadan inaugurated the event.





## SAHRDAYA NEWS & VIEWS

- ◆ The 14<sup>th</sup> convocation ceremony was held on 31/12/2021 for 2015-19 B.Tech batch & 2015-17, 2016-2018, 2017-19 M.Tech batches.



- Christmas Celebration - Estrella 2021 was conducted on 23/12/2021.



- ◆ The following students of the 2017-21 batch secured 2<sup>nd</sup> and 3<sup>rd</sup> positions in the APJ KTU results.



**Linta Johnson**

CGPA - 9.28 (BTE 2<sup>nd</sup> Rank)



Treasa Rejo

CGPA - 9.24 (BTE 3<sup>rd</sup> Rank)

- ◆ The following students were selected as the best students of batches 2017-21 & 2016-20



**Jobel Johnny**

Dept. of CSE - Batch 2017-21



**Maritta Stephen**

Dept. of CSE - Batch 2016-20

- ◆ Sahrdaya signed MoU with Kerala Development and Innovation Strategic Council (KDISC) of Government of Kerala, Under this MoU, sahrdaya and KDISC will work together in innovation development and promotional activities, especially in the area of Assistive Devices.



- ◆ Sahrdaya signed MoU with Sree Chitra Tirunal Institute for Medical Sciences and Technology, under this MoU, Sahrdaya and SCTIMST Technology cooperate in Transfer and Commercialization.
- ◆ Emage organized a one day training for the technical staff of ECE, BME, CSE and EEE on Proteus software on November 12, 2021. The sessions were handled by Ms. Binet Rose devassy and Ms. Chinchu Jose.

## HR & PLACEMENT CELL

- ◆ Resume Making session was given for 2018-2022 batch students by Ms. Vini Jose, TPO on 12/07/2021.
- ◆ Placement department in association with Alumni Association organized Online Aptitude Training for 40 hours for all branches of studies of 2018-2022 batch on 14/07/2021.
- ◆ Five days Placement technical training was conducted by external agency “Manifold” on programming and Aptitude for interested final year on 30/07/2021.
- ◆ Mock Interviews were conducted by TPO for students eligible for placements from 2018-2022 batch on 12/10/2021.
- ◆ Ms. Vini Jose, TPO attended a TPO Meet on 12/11/2021 organized by Xoriant company at Rajagiri College, Ernakulam.
- ◆ One week of Student induction Program was conducted for the 2022 batch during 22/11/2021 to 27/11/2021.
- ◆ A pre-placement talk was arranged for BME 2022 graduates by “NOCCARC” company on 01/12/2021.
- ◆ Placement Dept. arranged a session on “Fruitful Career through GATE and Campus Placement” by Manifold Institute for the 2023 graduates on 08/12/2021.
- ◆ A session on “Study Abroad” was conducted for students interested from the 2018-2022 batch by Kannan International, Thrissur on 09/12/2021.
- ◆ The following students of batch 2018-2022 are placed at different organizations:

Organization Name	Department	No.of Students Placed
ZIFO	BT & BME	3
SOTI	BTE	1
TCS	ALL BRANCHES	44
QUEST GLOBAL	CSE, ECE & EEE	7
WIPRO	ALL BRANCHES	20
IBS	CSE & ECE	8
UST GLOBAL	CSE, ECE & EEE	20
MITSOGO	ALL BRANCHES	1
ZERONE	CSE	1
VIRTUSA	ALL BRANCHES	8
QBURST	CSE & ECE	5
BYJUS	ALL BRANCHES	8
POORNAM INFO VISION	CSE & ECE	1
SUTHERLAND	ALL BRANCHES	23
INTERLAND	ALL BRANCHES	2
ASPIRE SYSTEMS	CSE	2

## PRIZES SECURED IN PROJECT COMPETITIONS

- ◆ Kerala Startup mission for Innovations Unlocked - Kerala Innovators' Technology Expo (KITE) 2021 selected some projects from BME department. The Projects are "Robotic mirror therapy for the mobilization of hand finger with feedback system to physiotherapist", "Heart Tracker", "Automatic Detection Of Patient With Respiratory Diseases Using Lung Sound Analysis", "Advanced PPE Kit", "A Real Time HR monitoring system for the Detection of Atrial fibrillation in Paralyzed", "Ultrasound Device for the Detection of Osteoporosis" & "Automated drug delivery in anesthesia machine".

**ആശ്വാസമായി സഹൃദയ വിദ്യാർത്ഥികളുടെ പി.പി.ഇ കിറ്റ്**

● ആശയ വിനിമയത്തിനായി  
മൈക്കും സ്പീക്കറും കീറിലുണ്ട്

தலைவர் தலைநகரில் இருந்து வந்தார். அந்தக் காலத்தில் இங்கே புகைப்படம் எடுப்பது அரிதாக இருந்தது. ஆனால் அந்த நேரத்தில் அந்த இடத்தில் இருப்பதை அப்போது அங்கே இருந்தவர்கள் அறிந்தார்கள். அந்த நேரத்தில் அங்கே இருந்தவர்கள் அறிந்தார்கள். அந்த நேரத்தில் அங்கே இருந்தவர்கள் அறிந்தார்கள்.

[illegible]

- ◆ Paper entitled “Flood Inundation Mapping using HEC-RAS Model” has been awarded the Best Presentation under Water Resource Engineering, guided by Ms. Reshma





EDUCATION IS DEDICATION

Antony in International Conference on Innovations in Civil Engineering - ICICE' -21 organised by Christ College of Engineering, Irinjalakuda. Project team members are Aiswarya K S, Anjali Krishna Sreekumar, AverinAshmi K S, Edwin Joy K.



## TECHNICAL ASSOCIATIONS

### EBSA (BME ASSOCIATION)

- A team from Biomedical Engineering visited National Institute of Rehabilitation Medicine (NIPMR), Thrissur for the purpose of testing the prototype developed by them in collaboration with the National Institute of Speech and Hearing (NISH) and APJ Abdul Kalam Technological University on 12/10/2021.



- A demo session was conducted by the officials of Fluke Biomedical Company on 27/10/21 for the faculty of the Biomedical Department on ECG, SPO2, respiratory and Non invasive Blood Pressure analyzers and ECG simulators as part of the purchase to be made for the setting up of new lab under MODROBE.



- A team of six faculty members consisting of Dr. Finto Raphael, Dr. Yuvaraj V, Dr. Remya George, Mr. Jibin Jose, Ms. Reshma Jose and Ms. Arathy M from BME visited National Institute of Physical Medicine and Rehabilitation, Kallettumkara, Kerala on 6/10/2021. The team visited the facilities and had discussion on possible collaboration between the two institutes.



## SAHRDAYA NEWS & VIEWS

- A team from Biomedical Engineering Department visited National Institute of Speech and Hearing (NISH), Trivandrum for the purpose of submitting the prototype developed by them in collaboration with the National Institute of Speech and Hearing (NISH) and APJ Abdul Kalam Technological University on 19/11/2021.



- An alumni interaction by Mr. Gokul and Mr. Muhammed Fahis was held on 22/11/2021 where they shared their experience as Biomedical Engineers.



- The Department of Biomedical Engineering and Creative Club organized a technical talk on "BIOPHOTONICS" by Dr. N Sujatha, biomedical engineer at IIT, Madras on 30th Nov 2021.
- A pre placement talk for final year students was conducted by NOCCARC on 1/12/2021.
- A talk on "Practice of Professional Ethics for Engineers" was conducted on 15/12/2021 by Dr. Bismi Gopalakrishnan, Dean, Faculty of Law, Mahatma Gandhi University.
- EBSA in association with IEEE Photonics Society and IEEE EMBS society organized an expert talk on "Fundamentals & Current Trends in Biophotonics and Photonic Devices" by Dr. Manoj Mathew, Business Development Manager, Digital Services and Software, APAC & Innovation Facilitator, ICFO-The Institute of Photonics Science, ZEISS Microscopy, Singapore on 20/12/2021 and 21/12/2021.

### BEATS (BTE ASSOCIATION)

- Department of Biotechnology in association with Sahrdaya Engineering College Alumni Association (SECAA) organized an Alumni Interaction by Aswin Sasi (2015-19 batch) on 9/10/21.
- Organized an Industry-Institute interaction by Ms. Sherin Varghese, Associate scientific manager, Biocon Ltd, Bangalore.
- Expert talk on the topic "Biomechanics of pedicle screw fixation" by Dr Vicky Varghese organized by BEATS in association with BRSI on 23/11/21.
- An interdepartmental Poster making competition organized on Worlds Aids Day (1/12/21).
- Organized a 2-day workshop in association with BRSI in Bioinformatics for final year students on 07/12/2021 and 08/12/2021.

### EMAGE (ECE ASSOCIATION)

- Department of Electronics & Communication Engineering conducted an invited talk on "CREATIVITY & INNOVATION -The Attitude & Altitude of Engineering" on 25/09/2021. Mr. Sameer Abdul Azeed, Scientist of DRDO was the resource person.
- Conducted an invited talk on "PLAN YOUR CAREER THE RIGHT WAY"-

## SAHRDAYA NEWS & VIEWS

A Career Guidance to the S7 ECE graduates. Resource person was Mr. Franklin Francis, Embedded / firmware professional on 06/10/2021.

- Organized an industrial interaction on "CAREER OPPORTUNITIES IN SEMICONDUCTOR INDUSTRY" to the S7 ECE. Resource person was Ms. Reshma John, Senior Silicon Design Engineer, AMD, Bangalore on 27/10/2021.
- Arranged an alumni interaction on "WHAT TO LOOK FORWARD IN AN INTERVIEW" for S7 ECE. Resource person was Mr. Richard Joy (2016-20 batch), Software Developer, SOTI on 05/11/2021.
- Conducted an expert interaction on "HOW TO START A PROJECT" for the S7 ECE. Resource person was Mr. Manu Joseph, EIR Fellow, KSUM on 17/11/2021.
- Arranged an expert interaction on "SPEECH TECHNOLOGY FOR EVERY LANGUAGE AND YOUR ROLE IN IT" for the S7 ECE. Resource person was Dr. Jesin James, Professor, university of Auckland on 19/11/2021.
- Conducted an expert interaction on "INDUSTRIAL AUTOMATION AND ROBOTICS" for the S7 and S5 ECE. Resource person was Mr. Vivek Nandakumar, Sr. Automation and Controls engineer, Renault-Nissan on 27/11/2021.
- Organized an Invited talk on the topic: "DREAMING TO BE OWN BOSS - SUPPORTING PROGRAMS AND POLICIES". Resource person Prakash GS IEDS (Indian Enterprise Development Service), Joint Director & Head of Office, MSME Development Institute Thrissur, Ministry of MSME, Govt of India on 10/01/2022.

## ACES (CSE ASSOCIATION)

- Conducted the session, "Online Interaction for Interview Preparation" for the 2018-22 batch on 26/09/2021 in connection with Sahrdaya Placement Cell. This session was led by Mr. Abhijith M S, Ms. Jes Mariya Wilson & Ms. Neethu Maria, Trainee Engineers at Quest Global.
- Competitive Coding in Python workshop is conducted on 27/11/2021 in connection with CSI. Resource Person was Mr. Jobel Johnny (Alumnus) Software Engineer at SOTI.



- Coding Competition (python) is conducted on 15/12/2021 in Connection with CSI.
- The Orientation Program on Microsoft Python Certification is conducted for S5 and S3 CSE students on 04/12/2021. Mr. Radeesh, Trainer, Active Edu. was the resource person.
- The Department of Computer Science and Engineering organized KTU Sponsored Five-Day Online Faculty Development Programme on "CYBER SECURITY AND CYBER FORENSICS" during 06/09/2021 - 10/09/2021.

## PACE (CE ASSOCIATION)

- Online quiz on the topic "Natural Disasters" for plus two students conducted on 05/06/2021. Cash awards were given for 1<sup>st</sup> and 2<sup>nd</sup> position. Mr. Navneeth

M. Kumar of Naipunnya School, Thrikkakara was secured first prize and Mr. Aby Jose of Don Bosco HSS, Irinjalakuda secured second prize.

- Technical talk on "Design and Development of New ideas" for 4<sup>th</sup> semester students on 13/09/2021. The speaker was Ms. Remya P M, Assistant Professor, SCET, Kodakara.
- Webinar on "Ethics in Civil Industry" for 6<sup>th</sup> and 4<sup>th</sup> semester students on 18/09/2021. The speaker was Mr. Chackochan M V, Executive Engineer (Civil, Retd.), Kerala Agricultural University.
- One day Workshop (in collaboration with IEDC Sahrdaya) on "Concrete Mix Design" for S7 semester students on 30/11/2021. The resource person was Mr. Sunny C P, Assistant Professor, SCET, Kodakara.
- One Day Offline Skill Development Program for Technical staff (Civil and Mechanical) on "Building Analysis using STAAD Pro. & Mix Design using IS 10262:2019" on 04/12/2021. The resource persons were Mr Sunny C P, Ms. Aiswarya M. S. and Mr. Akhil S. Nair, Assistant Professors, SCET, Kodakara.



- Industry Interaction on "IT Opportunities for Civil Engineers" for S3, S5 & S7 Students on 04/12/2021. The resource person was Ms Athulya Philo Joseph, System Engineer, Infosys.
- Technical talk on "Environmental Impact Assessment" for S7 students on 04/12/2021 at 11:00AM. The resource person was Mr Devis P C, Deputy Chief Engineer/ Superintending Engineer (Retd.), Kerala Water Authority.
- 3 Day workshop on "Analysis and Design of Multistorey Buildings - A Systematic Approach" for the S7 students from 13/12/2021 to 15/12/2021. The resource persons are Mr Ciby Jacob Cherian, and Mr Akhil S Nair, Assistant professors, SCET, Kodakara.

## AESON (EEE ASSOCIATION)

- EEE Department organized a KTU sponsored online FDP on "Recent trends in Electric Vehicle and System Design", from 07/06/2021 to 09/06/2021
- Arranged Webinar on Smart Home Energy Usage and Bill Management Techniques by Mr. Sebin Davis & Life skills to achieve life goals by Abhilash G. R on 03/07/2021 & 25/11/2021 respectively.
- Conducted alumni interaction by Ms. Femi C. Anto, Hardware Engineer, VVDN Technologies & Mr. Krishnaraj P.S, System Engineer, Infosys on 30/09/2021 & 24/11/2021 respectively.
- The EEE Department in association with NDLI Club organized a webinar on "Stratagems for technical paper selection and project work plan" on 24/10/2021.
- Organized a Free online course on "VLSI SoC Design using verilog" for S3, S5 and S7 EEE students through an online platform by Maven Silicon Center, Bangalore.
- AESON conducted an inter department treasure hunt competition "E-Hunt" on Energy Conservation day, 14/12/2021



- Arranged an Aptitude test for the S3, S5 and S7 students of EEE on 20/11/2021 as a part of a skill development programme.



**RDC @ SAHRDAYA**

- The following faculty members were granted guide ship under APJ Abdul Kalam Technological University in this period:



**Dr. Finto Raphael**  
Associate Prof. &  
Head BME



**Dr. Midhila Padman**  
Assistant Prof. BTE



**Dr. Jeethu Raveendran**  
Assistant Prof. BME



**Dr. Amitha Joy**  
Associate Prof. BTE



**Dr. Arun Thomas**  
Associate Prof. ECE

- The following are the faculty members pursuing the degree of Doctor of Philosophy (PhD) in this period:

Name of the faculty	Department	University/Institute
Mr. Saran K. B.	ECE	NIT Calicut
Ms. Vidyamol K.	ECE	NIT Calicut
Ms. Annsaniya	BME	IIT Kharagpur
Mr. Kiran Philip Isaac	BME	IIT Madras
Mr. Adarsh S. R.	EEE	Amrita University
Ms. Neethu John	EEE	Amrita University

**IEDC @ SAHRDAYA**

- IEDC Sahrdaya hosted a session on Innovation and Entrepreneurship at Sahrdaya for innovators from different colleges in connection with Kerala Innovators' Technology Expo (KITE) 2021 by Kerala Startup Mission in Collaboration with APJ Abdul Kalam Technological University on 24/11/2021
- The Association of Electrical & Electronics Department AESON in collaboration with IEDC Sahrdaya is organized a webinar on "Life Skills to Achieve Life Goals" on 25/11/2021 by Mr. Abhilash G R, Certified Adolescent Counsellor.

**NSS @ SAHRDAYA**

- NSS Sahrdaya conducted a 7-day Special Camp as a part of social service activities by NSS UNIT 589 from 25/12/2021 to 31/12/2021.
- Mr. Elwin Jose, NSS Volunteer secretary got selected for state level National Integration camp.
- Conducted an event on 14/11/2021 in association with Children's day on the topic "Student's Green Parliament-For Rediscovering India" along with Moozhikulam Sala Nattariv Padanakalari and Climate revolutionary, India.
- The NSS unit in association with 52 NSS Anniversary Day conducted a webinar on the topic "An Appropriate Behavior For Covid-19" by Dr Sajna M V Associate professor Department of community medicine Govt medical college, Thrissur on 26/09/2021.
- Organized a campaign in connection with National Sports day "Youth Campaign for Fitness Challenge - Sports for the Healthy Youth of Tomorrow" in collaboration with Physical Education and Sports of Sahrdaya on 29/08/2021
- NSS unit along with Green Report channel and Moozhikulamshala Nattariv Padanakalari conducted a 9 day webinar series from 26/07/2021 to 03/08/2021 in association with 2021 Earth Overshoot Day-July 29.



**Mr. Elwin Jose**

**IEEE @ SAHRDAYA**

- Mr. Ridhun Varghese Department of Civil Engineering selected as the Student Ambassador for the IEEE Xtreme 15.0.

**SAHRDAYA NEWS & VIEWS**

- TIEEE, Sahrdaya organised a talk on "Rural Enterprises and women empowerment" on 29/09/2021. Speaker was Sahithi Divi, Director Mohanam Culture Centre.

**SECAA @ SAHRDAYA**

- Sahrdaya Engineering College Alumni Association (SECAA) Sponsored two week Technical Training Series program Python training was conducted for the 2<sup>nd</sup> year students from 26<sup>th</sup> April to 7<sup>th</sup> May 2021. Around 350+ students participated in the program.
- SECAA Sponsored one week Technical Training Series program Fusion 360 & Digital Fabrication was conducted for the 1<sup>st</sup> year students from 31<sup>st</sup> May to 5<sup>th</sup> June 2021. Around 400+ students participated in the program.
- SECAA Sponsored 40 hour training program on aptitude skills was conducted for the final year students from 14<sup>th</sup> July 2021. Around 250+ participants participated in the program.

**LIBRARY**

- In connection with National Library Week, Central Library conducted a Video challenge Competition on the topic "Libraries Change Lives" on 20/11/2021

**FACULTY EXCELLENCE****ASH**

- Dr Sukhila krishnan had Co Authored Book chapter "Polymer Blends Based on Bioepoxy Polymers" in the book titled Bio Based Epoxy Polymers, Blends and Composites: Synthesis, Properties, Characterization and Applications by the Wiley publications & "PBAT based blends and composites" in the book titled biodegradable-polymers-blends-and-composites by the Elsevier (Woodhead Publishing).
- Dr. Joseph Jestin delivered the keynote address in the NDLI Club awareness programme conducted by ERNARD Engineering College on 27/11/2021.

**BME**

- Mr. Jibin Jose, faculty of Biomedical Department was one of the speakers at Kerala Innovators' Technology Expo (KITE) 2021 held from 22<sup>nd</sup> to 26<sup>th</sup> November 2021 & delivered a talk on Health Design Thinking: "An innovative approach in public health to defining problems and finding solutions at AICTE sponsored FDP Advancement of Digital Health and Medical Innovations during pandemic" conducted by the Department of Biomedical Engineering from December 6<sup>th</sup> to December 10<sup>th</sup> 2021.

- Dr. Yuvaraj V, Associate professor from the Department of Biomedical Engineering was one of the panelists for the panel discussion on "Trend in Human Machine Interface in the context of Biomedical Instrumentation" conducted as part of SPS Forum 2021 on "Trends in Multi-scale Signal and Image Processing for Biomedical Instrumentation" from 15<sup>th</sup> to 18<sup>th</sup> Dec. 2021.

**BTE**

- Dr. Leon Ittiachen has successfully completed Domain Certification in Patents and Intellectual Property rights in October 2021 and is recognized as an NPTEL enthusiast.

- Mr. Francis John, Assistant Professor, Department of Biotechnology handled a session on Universal Human Values to S3, S5 and S7 students on November 19, 2021.

- Dr. Uma Krishnakumar handled a session on Quantum dots during the faculty enrichment programme organized at SCET, Kodakara.

**CE**

- Paper entitled "Flood Inundation Mapping using HEC-RAS Model" has been awarded the Best Presentation under Water Resource Engineering, guided by Ms. Reshma Antony in International Conference on Innovations in Civil



EDUCATION IS DEDICATION

## SAHRDAYA NEWS & VIEWS

Engineering - ICICE' -21 organized by Christ College of Engineering, Irinjalakuda. Project team members are Aiswarya K S, Anjali Krishna Sreekumar, Averin Ashmi K S, Edwin Joy K.

### > CSE

- ◆ Mr. Scaria Alex has been invited as subject expert for an interview on Project Asst. in Velukkara Panchayath on 05/11/2021.
- ◆ Mr. Willson Joseph C is certified for leading the Google Cloud Ready Facilitator Program.
- ◆ Mr. Willson Joseph C and Ms. Linnet Tomy has published the institution microsite during the Train the Trainer program on Creating Microsites on Infosys Spring broad conducted by Infosys Limited from August 31<sup>st</sup> to September 2<sup>nd</sup>, 2021.

### > ECE

- ◆ Dr.G. R. Gnana King, Filed and Published a patent titled "Modified random Forest Algorithm for the diagnosis of Azhimer disease" Patent Number: 202141038348A.
- ◆ Dr.Vishnu Rajan, filed and published a patent titled "Lithium-ion battery range and soc prediction for electric vehicle" - INA202141020402 & filed a patent titled "Photofinish - A low cost multi camera system for sprint auto positioning" - INA202141029282.

### > EEE

- ◆ Ms. Ashna Mohan, Assistant Professor, EEE Dept. handled a session on "Electric and Hybrid Vehicles: Current Trends" as a part of the four day Online Faculty Enrichment Program in Future Skills from 24<sup>th</sup> August to 27<sup>th</sup> August 2021 organized by SCET, Kodakara, Thrissur, Kerala.

## PAPER PUBLICATIONS & PRESENTATIONS BY FACULTY MEMBERS

### > BME

- ◆ Dr. Remya George was a resource person for the session "Effects of physical activity and exercise on HRV" for AICTE sponsored online faculty development program on Heart Rate Variability-Monitoring, Analysis and Diagnosis conducted by Dept. Biomedical Engineering, Model Engineering College, Thrikkakara Cochin, Kerala from October 25<sup>th</sup> to 29<sup>th</sup> 2021.

### > BTE

- ◆ Ms.Ranimol G published a paper on "Optimization and efficacy studies of Laccase immobilized on Zein-Polyvinyl pyrrolidone nano fibrous membrane in decolorization of Acid Red 1" in Water Science and Technology, 84 (10-11): 2703-2717.
- ◆ Dr. P. Praveena authored a Book chapter on "Carica papaya-A comprehensive Review" in Recent Advancements and Research in Biological Sciences (ISBN: 978-81-952529-1-6).
- ◆ Smeera Thomas published a paper on "Isolation, characterization and optimization of chrysene degradation using bacteria isolated from oil-contaminated water" in Water Science and Technology 84 (10-11): 2737-2748.
- ◆ Dr. P. Praveena co authored Book chapter "A Review on the Pharmacological Properties of Pothos scandens L." in Advances in Bioscience and Biotechnology Research (ISBN: 978-81-947071-6-5).

### > CSE

- ◆ Mr. Scaria Alex published a journal titled "Spider Bird swarm algorithm with deep belief network for malicious JavaScript detection" in Computers and Security in August 2021 & published a journal titled "Taylor-HHO algorithm: A hybrid optimization algorithm with deep long short-term for malicious Javascript detection" in International Journal of Intelligent Systems in Aug 2021.
- ◆ Ms. Livya George published a paper titled "Customer segmentation in intelligent

learning mechanism in E-banking using Frequent Item-set Hierarchical Clustering" in August 2021.

- ◆ Ms. Deepa Devassy published a book chapter entitled "Energy efficient Network Routing Protocols for IoT Applications" in October 2021.
- ◆ Ms.Anly Antony M and Dr. R SatheeshKumar published a book chapter entitled "Technical assesment of various Image Stitching Techniques:A Deep Learning Approach" in October 2021.

### > ECE

- ◆ Ambily Francis, Published a paper titled "Early detection of Alzheimer's Disease using local binary pattern and convolutional neural network" in Multimedia Tools and Applications, 2021 Aug;80(19):29585-600.
- ◆ Dr. G. R Gnana King, Published a book chapter entitled "Medical Tourism and Internet of Things" in E-ISBN Book "Big Data Analytics for Business Intelligence: Descriptive Case Studies on Smart Tourism in India" .E-ISBN :978-81-950884-0-9.,Published a paper "Fusion of Multimodality Medical Images- A Review" in Smart Technologies, Communication and Robotics (STCR), Published a paper "Technical Assessment of Various Image Stitching Techniques: A Deep Learning Approach" in Handbook of Deep Learning in Biomedical Engineering and Health Informatics.,Published a paper "Wireless Speed Control of Vehicles with Detection of Person & Zebra Crossing" in IJRTE.
- ◆ Dr.G. R. Gnana King published three IEEE Conference Publications titled "A Review on Object Detection Algorithms for Ship Detection", "A Review on Glucose Monitoring Using Enabling Technologies of Internet of Things", and "Zebra Line Detection And Speed Control System Using Raspberry Pi" in 7<sup>th</sup> International Conference on Advanced Computing and Communication Systems (ICACCS)- IEEE Conference 2021.
- ◆ K R Joy, Published a paper titled "Smart Buggy: An IoT Based Smart Surveillance Robotic Car Using Raspberry Pi" in 8<sup>th</sup> International Conference on Smart Computing and Communications (ICSCC). IEEE Conference 2021.
- ◆ Ms.Binet Rose Devassy Published a paper titled "Histopathological Image Classification Using Ensemble Transfer Learning" International Conference on Machine Learning and Big Data Analytics (ICMLBDA) 2021.
- ◆ Ms. Vidyamol K, Published a paper titled "A Review on Object Detection Algorithms for Ship Detection" in 7<sup>th</sup> International Conference on Advanced Computing and Communication Systems (ICACCS)- IEEE Conference 2021.

### > EEE

- ◆ Dr. V. Vijikala, Associate Professor, EEE Department, published a paper on "Application of Different Techniques for Medical Image Processing - A Systematic Review" Design Engineering (Toronto) Journal, Volume 2021, Issue 9, Page No 13910-13917, 2021 (Scopus).

## WORKSHOPS & TRAININGS ATTENDED BY FACULTY MEMBERS

### ASH

- ◆ All faculty members attended a 4 Days online Faculty Enrichment Program on "Future Skills" by SCET,Kodakara during 24/08/2021-27/08/2021.
- ◆ Savitha P Paul attended KTU sponsored FDP "Outcome based education with assessment and evaluation" during 26/07/2021 to 30/07/2021.
- ◆ Lickny I had attended KTU sponsored online FDP on Outcome Based Education with Assessment and Evaluation during 26<sup>th</sup> July to 30<sup>th</sup> July & 3 day Faculty Development Programme on "Mathematical Foundations for Artificial Intelligence and Machine Learning" sponsored by APJAKTU at MITS.
- ◆ Dr Sukhila krishnan had attended KTU sponsored FDP "Outcome based education with assessment and evaluation" held on 26<sup>th</sup> July to 30<sup>th</sup> July, 5 Days online ATAL FDP on "Plastics Product & Mould Design" from 20 July to 24 July conducted by at Central Institute Of Petrochemicals Engineering And Technology & Qualified three MOOC courses (6 weeks) of NITTT conducted by AICTE.
- ◆ Jimi K J had attended 5 Days online AICTE Sponsored STTP on "Technology Enablers For Smart Manufacturing Using Industry 4.0" by Nitte Meenakshi Institute of Technology, Bangalore (July 12-16) & KTU sponsored FDP "Outcome based education with assessment and evaluation" held on 26<sup>th</sup> July to 30<sup>th</sup> July.



- ◆ Dr. Joseph Jestin attended three online training programs conducted by EBSCO on E-Books, EBSCOHOST-General (30<sup>th</sup> Jul., 30<sup>th</sup> Sept. and 28<sup>th</sup> Oct., 2021).

#### ➤ BME

- ◆ Dr. Remya George completed the 5 day AICTE sponsored online faculty development program on Heart Rate Variability-Monitoring, Analysis and Diagnosis conducted by Dept. Biomedical Engineering, Model Engineering College, Thrikkakara Cochin, Kerala from October 25<sup>th</sup> to 29<sup>th</sup> 2021.
- ◆ Mrs. Reshma Jose, Assistant Professor of Department of Biomedical Engineering attended ATAL online FDP on "Advancement of Digital Health and Medical Innovation during Pandemic" from 06/12/2021 to 10/12/2021 conducted by Model Engineering College, Thrikkakara.

#### ➤ BTE

- ◆ All faculty members attended the Faculty Enrichment Program during 24/08/2021 to 27/08/2021 organized at SCET, Kodakara.
- ◆ Dr. Ambili Mechoor, Dr. Midhila Padma, Ms. Ranimol G attended National Workshop on Research Methodology and Latex during 13/09/2021 to 17/09/2021 organized at NIT, Karaikal, Puducherry.
- ◆ Dr. P. Praveena attended a FDP on New Era of Biotechnological Research from 0/09/2021 to 24/09/2021 organized by Sree Narayana Guru College, Coimbatore, workshop on Improving Research and Performance Outcome from 30/08/2021 to 31/09/2021 organized by Elsevier, talk on The Role of Service Clubs in shaping up the Leader in You, while you are extending your unconditional service to others on 30/08/2021 organized by NDLI Club, SCET, Kodakara & FDP (ATAL) on Personal Effectiveness from 23/08/2021 to 27/08/2021 organized by PDPM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur.
- ◆ Ms. Marria C Cyriac attended an awareness workshop on Improving Research and Performance Outcome from 30/08/2021 to 31/09/2021 organized by Elsevier.
- ◆ Mr. Francis John V attended a talk on The Role of Service Clubs in shaping up the Leader in You, while you are extending your unconditional service to others on 30/08/2021 organized by NDLI Club, SCET, Kodakara, AICTE FDP on Inculcating Universal human values in technical education 27/09/2021 to 01/10/2021 organized by AICTE, New Delhi, Quiz on Olympic Quiz 20/09/2021 organized by NDLI Club, SCET, Kodakara, & National Workshop on Research Methodology and Latex during 13/09/2021 to 17/09/2021 organized at NIT, Karaikal, Puducherry.
- ◆ Dr. Uma Krishnakumar attended a talk Stratagems for Technical Paper Selection and Project Work-Plan on 24/10/2021 organized by NDLI Club, SCET, Kodakara, FDP on Technological Intervention in Water Resources Management during 6/09/2021 to 10/09/2021 organized by Sree Chitra Thirunal College of Engineering, Pappanamcode, Trivandrum, talk on The Role of Service Clubs in shaping up the Leader in You, while you are extending your unconditional service to others on 30/08/2021 organized by NDLI Club, SCET, Kodakara, & National Workshop on Research Methodology and Latex during 13/09/2021 to 17/09/2021 organized at NIT, Karaikal, Puducherry.

#### ➤ CE

- ◆ All faculty members attended 4 day Online Faculty Skill Development Program from 24<sup>th</sup> August to 27<sup>th</sup> August 2021 organized by SCET, Kodakara, Thrissur, Kerala.
- ◆ Ms. Remya P M attended 5 day online Faculty Development Program on DE-HAB Demolition and Rehabilitation of structures organized by Department of Civil Engineering, Marian Engineering College, from 26<sup>th</sup> July 2021 to 30<sup>th</sup> July 2021, 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 27 September, 2021 to 1 October, 2021, "Two-day Awareness Workshop on Improving Research & Performance Outcomes" organized by Elsevier on 31 August, 2021.
- ◆ Mr. Akhil S. Nair attended 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 27 September, 2021 to 1 October, 2021, 5-day online FDP on the theme "Techniques for Disaster Management & Climate Change Adaptation Strategies" organized by MES College of Engineering, Kuttippuram, Malappuram, from 6-10 September 2021, FDP on "Academic Projects with BIM" organized by Bentley Institute on 25 August 2021, Two-day Awareness Workshop on "Improving Research & Performance Outcomes" organized by Elsevier on 31 August, 2021.
- ◆ Ms. Ragi C Ravindran attended 5 day online Faculty Development Program on "DE-



HAB: Demolition and Rehabilitation of Structures" organized by Department of Civil Engineering, Marian Engineering College, from 26<sup>th</sup> July 2021 to 30<sup>th</sup> July 2021, Two-day Awareness Workshop on "Improving Research & Performance Outcomes" organized by Elsevier on 31 August, 2021 and has successfully completed the NPTEL course "Accreditation & Outcome Based Learning" with Elite + Silver Certification.

- ◆ Ms. Haritha C R attended 5-day online FDP on the theme "Techniques for Disaster Management & Climate Change Adaptation Strategies" organized by MES College of Engineering, Kuttippuram, Malappuram, from 6 - 10 September 2021, Technical paper of Maria Seby, Mohanan T Amrutha, P A Rosemary, and Mikhail Antony guided by Ms. Haritha was accepted and presented at the First International Conference on Emerging Trends in Engineering (YUKTHI 2021) during 24 - 26, September 2021 at Government Engineering College Kozhikode, Kerala, India.
- ◆ Ms. Sujana R attended 5-day online FDP on the theme "Techniques for Disaster Management & Climate Change Adaptation Strategies" organized by MES College of Engineering, Kuttippuram, Malappuram, from 6 - 10 Sept, 2021, Indo-Chile Workshop on "Recent Advancements in Geotechnical Earthquake Engineering" (online) during 7 - 9 Sept, 2021, The First International Conference on Emerging Trends in Engineering (YUKTHI 2021) during 24 - 26 Sept, 2021 at Government Engineering College Kozhikode, Kerala, India.
- ◆ Mr. Ciby Jacob Cherian attended 5-day online FDP on the theme "Techniques for Disaster Management & Climate Change Adaptation Strategies" organized by MES College of Engineering, Kuttippuram, Malappuram, from 6 September 2021 - 10 September 2021, India Structural Conference Series 2021: Interaction Checks and Design for Earthquake Loads organized by Bentley Institute on 8 July 2021.
- ◆ Ms. Reshma Antony attended KTU sponsored online FDP on Outcome Based Education with Assessment and Evaluation from 26-30 July, 2021 organized by Dept. of Electronics and Communication Engineering, SCET, Kodakara, Thrissur, Kerala, 5-day Online FDP on the theme "Recent Trends in Design, Construction and Maintenance of Concrete Pavements", organized by Civil Engineering Dept., Mar Baselious College of Engineering and Technology and sponsored by KTU, conducted in virtual mode from July 5<sup>th</sup> to 9<sup>th</sup>, 2021, 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 27 September, 2021 to 1 October, 2021.

#### ➤ CSE

- ◆ All faculty members attended 4 day Online Faculty Skill Development Program from 24<sup>th</sup> August to 27<sup>th</sup> August 2021 organized by SCET, Kodakara, Thrissur, Kerala.
- ◆ Ms. Divya R, Ms. Roshni R Menon, Ms. Linnet Tomy attended online FDP from 08<sup>th</sup>-12<sup>th</sup> November 2021 on Inculcating Universal Human Values in Technical Education organized by AICTE.
- ◆ Scaria Alex and Ann Rija Paul attended a 5 day online FDP from 13-17 Sept 2021 on Inculcating Universal Human Values in Technical Education organized by AICTE.
- ◆ Mr. Willson Joseph C attended KTU sponsored 3 day online FDP from 28-30 July 2021 on Recent trends in Artificial Intelligence and Machine Learning organized by Ahaliya School of Engineering and Technology, Palakkad, online training on "IEEE Xplore" Organized by Karunya Institute of Technology and Science & online FDP from 08<sup>th</sup>-12<sup>th</sup> November 2021 on Inculcating Universal Human Values in Technical Education organized by AICTE.
- ◆ Ms. Megha K. K. attended 5 Days Online FDP on "Cyber Security & Cyber Forensics" during 06/09/2021 to 10/09/2021 at Sahrdaya College Of Engineering & Technology, Thrissur, 5 Days Online FDP on "Smart Computing - Technologies and Applications" from 22/07/2021 to 27/07/2021 at MES College of Engineering, Kuttippuram and webinar on "Two-day Awareness Workshop on Improving Research & Performance Outcomes" from 31/08/2021 to 01/09/2021.





### ➤ ECE

- ◆ Dr. SILPA P A, Assistant Professor of Sahrdya College Of Engineering & Technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Processing of Novel Materials" from 20/09/2021 to 24/09/2021 at INDIAN INSTITUTE OF TECHNOLOGY (BHU) VARANASI, Online FDP on "Polymer Matrix based Nanostructures for Targeted Drug Delivery Application" at CIPET- CSTS Guwahati." during 02/08/2021-08/08/2021 & FDP on "Processing of Novel Materials" at Indian Institute of Technology, Varanasi, during 02/08/2021-08/08/2021.
- ◆ Ms. Ambily Francis attended a FDP on "Multidisciplinary Applications of MATLAB" from 22<sup>nd</sup> July 2021 to 24<sup>th</sup> July 2021 organized by Dept of Electronics and Communication Engineering, Universal Engineering College, Vallivattom, Thrissur & KTU sponsored online FDP on "Outcome Based Education with Assessment and Evaluation" from 26<sup>th</sup> July to 30<sup>th</sup> July 2021 organized by Dept. of Electronics and Communication Engineering, SCET, Kodakara, Thrissur.
- ◆ Ms. Vidyamol K attended a KTU sponsored online FDP on "Outcome Based Education with Assessment and Evaluation" from 26<sup>th</sup> July to 30<sup>th</sup> July 2021 organized by Dept. of Electronics and Communication Engineering, SCET, Kodakara, 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by AICTE during 06-12-2021 - 10-12-2021, 5-day online FDP "Online Faculty enrichment programme in Future Skills" at SCET, Kodakara, during 24-08-2021 -27-08-2021, Two day Awareness workshop on "Improving Research & Performance Outcome" Elsevier's Zoom webinar. (online) on 31/8/2021 and 1/9/2021, Two days FDP on "Development wireless communication applications using MATLAB & Simulink" organized by CoreL Technologies on 12-08-21 and 13-08-2021, online Webinar on AI/ML in FPGA organized by Amrita Viswa vidyapeetham on 29/9/2021, Webinar on "Characteristics of RADARs and LiDAR's: How They Effect SLAM" organized by Amrita Viswa vidyapeetham 28/11/2021 and webinar on "Scientific writing" organized by Dr. NGP Institute of Technology organized by Dr. NGP Institute of Technology on 6/10/2021, Innovation and Acquisition of Intellectual Property Rights, organized by SCTIMST - TIMed, Biomedical Technology Wing, Poojappura - Thiruvananthapuram on 29/09/2021.
- ◆ Ms. Chinchu Jose attended a KTU sponsored online FDP on "Outcome Based Education with Assessment and Evaluation" from 26<sup>th</sup> July to 30<sup>th</sup> July 2021 organized by Dept. of Electronics and Communication Engineering, SCET, Kodakara, Thrissur, 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) during 06-12-2021 - 10-12-2021, 5-day online FDP "Online Faculty enrichment programme in Future Skills" at SCET, Kodakara, during 24-08-2021 -27-08-2021, & Innovation and Acquisition of Intellectual Property Rights, organized by SCTIMST - TIMed, Biomedical Technology Wing, Poojappura - Thiruvananthapuram on 29/09/2021.
- ◆ Dr. K.R. Joy attended a KTU sponsored online FDP on "Outcome Based Education with Assessment and Evaluation" from 26<sup>th</sup> July to 30<sup>th</sup> July 2021 organized by Dept. of Electronics and Communication Engineering, SCET, Kodakara, Thrissur and Two days FDP on "Development wireless communication applications using MATLAB & Simulink" organized by CoreL Technologies on 12-08-21 and 13-08-2021.
- ◆ Dr. Arun Thomas T. attended 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) during 13-09-2021 - 17-09-2021.
- ◆ Dr. G. R Gnana King attended 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) during 08-11-2021 - 12-11-2021 & Online FDP on "Object Identification and Image Intelligence a Practical Approach" at Women's Polytechnic during 25/10/2022-29/10/2022.

- ◆ Ms. Jisha Jacob attended 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) during 06-12-2021 - 10-12-2021 and Two days FDP on "Development wireless communication applications using MATLAB & Simulink" organized by CoreL Technologies on 12-08-21 and 13-08-2021.
- ◆ Ms. Binet Rose Devassy attended 5-day online FDP on the theme Research Perspectives of Machine Learning & Deep Learning for Signal Processing Applications at SCT college of Engg., Tvm. during 6-9-2021 - 10-9-2021, 5-day online FDP "Online Faculty enrichment programme in Future Skills" at SCET, Kodakara, during 24-08-2021 -27-08-2021, Two day Awareness workshop on "Improving Research & Performance Outcome" Elsevier's Zoom webinar. (online) on 31/8/2021 and 1/9/2021, 5-day online FDP on the theme "Object Identification and Image Intelligence a Practical Approach" organized by ATAL during 25-10-2021 - 29-10-2021, 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) during 08-11-2021 - 12-11-2021 and KTU sponsored online FDP on "Outcome Based Education with Assessment and Evaluation" from 26<sup>th</sup> July to 30<sup>th</sup> July 2021 organized by Dept. of Electronics and Communication Engineering, SCET, Kodakara, Thrissur.
- **EEE**
- ◆ Mr. Abhijith R Prasad attended KTU sponsored online FDP on "Recent trends in Electric Vehicle and System Design" conducted by Dept of EEE, SCET, from 07/06/2021 to 09/06/2021, FDP on "Smart Grid Monitoring and stability: A Microgrid Perspective" sponsored by TEQIP-II by Dept of Electrical and Electronics College of Engineering Vadakara. From 24<sup>th</sup> to 28<sup>th</sup> July 2021, Mr. Sebin Davis K has attended an FDP on Six-Day Short Term Training Programme (STTP) on "Smart Grid and Big Data Analysis", sponsored by AICTE by the Department of Electrical & Electronics Engineering, IPS Academy, Institute of Engineering & Science, Indore, during 09-08-2021 to 14-08-2021, Mr Adarsh SR attended a four day online FDP on "Online Faculty enrichment program in future skills" organized by Sahrdya College of Engineering & Technology, from 24 th August 2021 to 27 August 2021.
- ◆ Ms. Ashna Mohan attended KTU sponsored online FDP on "Recent trends in Electric Vehicle and System Design" conducted by Dept of EEE, SCET, from 07/06/2021 to 09/06/2021, Four day Online Faculty Enrichment Program in Future Skills from 24<sup>th</sup> August to 27<sup>th</sup> August 2021 organized by SCET, Kodakara, Thrissur, Kerala, 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) from 27 September, 2021 to 1 October, 2021.
- ◆ Dr. V. Vijikala attended Four day online FDP on "Online Faculty enrichment program in future skills" organized by Sahrdya College of Engineering & Technology, from 24 th August 2021 to 27 August 2021, TEQIP - II sponsored online FDP on "Smart Grid monitoring and Stability: A microgrid Perspective" organized by Dept of EEE, College of Engineering Vadakara, from 24/07/2021 to 28/07/2021, KTU sponsored online FDP on "Embedded Systems and IOT in Biomedical Applications" conducted by Dept of BM, Sahrdya College of Engineering and Technology, from 12/07/2021 to 17/07/2021, Online elementary FDP on "Planning and Operation of Smart Grids: Recent Trends and Developments" organized by AICTE Training and Learning Academy, from 06/12/2021 to 10/12/2021, Online elementary FDP on "Nonlinear systems: Dynamics and Control" organized by AICTE Training and Learning Academy, from 13/12/2021 to 17/12/2021.
- ◆ Merry Mathew Padayattil attended KTU sponsored online FDP on "Recent trends in Electric Vehicle and System Design" conducted by Dept of EEE, SCET, from 07/06/2021 to 09/06/2021.

