



Learn Beyond

**KPR Institute of  
Engineering and  
Technology**

(Autonomous NAAC "A")



# NEWSLETTER

**VOLUME 15**



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*Editor in Chief  
Dr. M. Akila  
Principal/ KPRIET*

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*Compiled by  
MNC*

# Institute Ventures

## 90<sup>th</sup> Air Force Day Celebration

KPRIET celebrated its 90th Air force Day on 08.10.2022. The Chief Guest of the day was Lt. Cdr. Vimalraj S (Retd), Naval Aviator, Indian Navy & GTO, Colonel & Commander, Defence Academy. About 100 students participated enthusiastically.



## BIKE Rally World Record 2022 - Word Mental Health Day

KPRIET organised an event BIKE Rally World Record 2022 - Word Mental Health Day on 10.10.2022. The Chief Guest of the day was Mr.Suprej Venkat, Director of Churn360 and Rtn.M.D.C.K.Sashi Kumar, Assistant Governor, RID. Dr.K.Selaraj MBBS, DPM, MD (Psch), DNB (Psych), Professor of Psychiatry, Consultant Psychiatrist & Director Vazhikatti Mental Health Centre & Research Institute, Dr.P.Vivek, Editor and Organiser, Aasiyan Book of World Record, Tamil Nadu, Mr.Ahilan Rajendran, CEO, Aasiyan Book of World Record, Tamil Nadu were also the guest of honour for the day. An awareness was created on the importance of Mental Health and the need of the same for very good lifestyle.



## KPRIET - NASSCOM

Inaugural session for Future Skills Prime - NASSCOM was organised on 11.10.2022, Shri. Navanit Samaiyar, Head - Future Skills, India and Shri.Udaya Sankar, Deputy Director - SSC NASSCOM were the resource person.



## Coursera -MEGA Launch Event

Coursera - Mega Launch Event was organised on 11.10.2022. The guest of honour were Shri. Dulles Krishnan, Managing Director - India & ANZ and Shri.D.Vinoth, Enterprise Director- Universities.



## Seminar - Automation & Robotics in i4.0

A Seminar was organised by KPR Institute of Engineering on 06.10.2022 on Automation & Robotics in i4.0. Mr. Mr. D. Suresh, Chief Executive Officer, Spark Minda Technology Centre, Minda Corporation Ltd



## Coffee with CEO



KPRIET organised an event Coffee with CEO on 04.11.2022. Mr. Neil Kikani, Director - Ragok Medicare Pvt. Ltd, Executive Partner - Kikani Group was the guest of honour for the day.

## First Year Inauguration



First year programme was inaugurated at KPRIET on 14.11.2022. The program was presided by Dr.M.Akila, Principal, KPRIET and Dr.Kavidasan, Director - HR, Roots Industries Ltd, Coimbatore, Mr.K.Haripradad, Human Resources Business Partner, Schneider Electric India Pvt. Ltd., Coimbatore and Kavignar Thiru. Marbin Marabin Muthiah, Editor, Namathu Nambikkai were the guest for the programme. About 700 parents and 1000 students attended the programme.

## Inauguration - OCEAN

OCEAN - Oneness through, Culture, Education, Arts and Tradition, was inaugurated on 11.11.2022 at KPRIET. Dr. V. Thiruvalluvan, Vice - Chancellor, Tamil University, Thanjavoor and Mr.Gurdip Singh Anand, Chairman, Bharth Kala Sangamam,Coimbatore inaugurated and spoke on importance of culture and the impact of it in education and life style.



## Inauguration - Experience Engineering

KPRIET and L&T EduTech inaugurated the Experience Engineering Museum and Digital Learning Centre at KPRIET on 23.11.2022. Dr.K.P.Ramasamy, Chairman, KPR Group presided over the ceremony. Dr.Srivari Chandrasekhar Secretary, Department of Science and Technology, Govt. of India, New Delhi and Mr. Falgun Chokshi, Vice President - Head Hazira and Vadodara Manufacturing Clusters Member of the Board - L&T Heavy Engineering IC (HEIC) were the guest for the day.



# Department Enterprise

## CE – Why Career is Important?

The Department of Civil Engineering organized a seminar on the topic "Why Career is Important?" on 01.10.2022. Mr. S. Vinoth, Assistant Professor of Civil Department was the resource person. This program's key objective is to make student aware of the importance of career growth and how to become a successful entrepreneur in the future. Totally 35 students participated and at the end of the session, an exercise was conducted to assist the students to learn more about themselves.



## Chem- Alumni Interaction

The Department of Chemical Engineering had the pleasure of having our alumni Mr. A. Amalkumar and Mr. K. Thamarai Kannan, Manager Trainees, Gypmart India Pvt. Ltd, Kolkata, return to our institution and share their industry experiences with our students on 08.10.2022. The session was extremely interactive and provided our students with a better understanding of the expectations of industries from young chemical engineers. The alumnus also offered valuable advice on how our students should prepare themselves for entering the professional world.



## CE - Introduction to Online RCC Building Structural Design Software: MvDAD

The Department of Civil Engineering, ASCE Student Chapter KPRIET, along with ASCE Student Chapter Amrita School of Engineering, organised a webinar on the topic "Introduction to Online RCC Building Structural Design Software: MvDAD" on 08.10.2022. The Guest Speaker Mr. B. P. Karamchandani, MvDAD Software Developer, Maharashtra, handled the session and explained the online RCC Building Structural Design Software: MvDAD, in which any layman can just select the 12 data from the drop-down box, upload the Centre Line Plan with Column Location, and lastly, enter only the Bearing Capacity of Soil.



## Chem – International Internship Opportunities for Chemical Engineering Students

The Department of Chemical Engineering organized a Guest Lecture on "International Internship Opportunities for Chemical Engineering Students" presented by Dr. M. Laxmi Deepak Bhatlu, Assistant Professor (Sl.Gr)/Chemical on 11.10.2022. The students were benefitted from the valuable information shared and gained insight into the various internships available abroad. He elaborated on the opportunities available as interns for Chemical Engineers in abroad.





## EEE – One Credit Course

The EKKI KPRIET International Water Technology Centre (EIWTC) organized a one credit course titled, "Pump Technology – Introductory Course" on 14.10.2022. The resource person was Dr. Sunil S R Gangoli, Head, Research and Development, EKKI Pumps, Coimbatore. He touched on the topics such as Pumping System Principles, Classification of Pumps, Pump Performance Test, Pump Application Motor, Advancements in Pumps etc. The resource person enlightened the students with numerous insights on Pumping.



## CE – Upskilling Training on Autodesk Revit Architecture

The Department of Civil Engineering arranged an Upskilling training (Phase 1) on Autodesk Rivet Architecture on 15.10.2022. Mr. M. Ram Vivekananthan and Mrs. R. Kavitha were the trainers for the upskilling program. The training gave a hands-on experience to students and they were exposed to the nuances of Autodesk Revit Architecture.



## CE – Irrigation Engineering

The Department of Civil Engineering organized a Guest Lecture on the topic "Irrigation Engineering" on 15.10.2022. The Resource person Dr. S. Punitha, Department of Crop Management, MIT College of Agriculture and Technology, Musiri, Trichy, explained students on the concept of works involved in irrigation engineering. She elaborated on the installation of pipelines and sprinklers and highlighted the process involved in directing water from dams, canals and rivers. She insisted on the necessity to evaluate terrain, soil and climatic characteristics to optimize the use of water for lawns and agricultural crops.



## ME – Minitab & How to make your LinkedIn profile standout

The Department of Mechanical engineering organized a hands on training program on "Minitab" and "How to Make Your LinkedIn Profile Standout" for mechanical students on 15.10.2022. Mr. Gokul S and Mr. Arun O of B.E Mechanical student batch 2021 – 2025 were the guest speakers. They deliberated on the nuances of making a digital profile.



## ME - Autodesk Boot Camp for Fusion 360 Design Challenge (Under Aegis Of Nan Mudhalvan Program)

The Department of Mechanical engineering and Design Society organized two day workshop on "AUTODESK BOOT CAMP FOR FUSION 360 DESIGN CHALLENGE (UNDER AEGIS OF NAN MUDHALVAN PROGRAM)" on 17th and 18th October 2022. Mr.Prasath V Autodesk India Pvt Ltd, Mr.Rohit Chandran - Education engagement specialist, Autodesk India Pvt Ltd and Mr.Amey Jadhav, Autodesk India Pvt Ltd. were the guest speakers. The speakers deliberated on Autodesk and highlighted the recent advancements in technology.



## CE - Miniature by us

The Department of Civil Engineering in association with CNI organised "Miniature By Us" a national level scale down event on 19.10.2022. The event comprised of Technical and non-technical events including a scale down model making competition, paper presentation, Bridge modelling, CAD contest and non-technical events on Reels, Start Music, Connections. The event also included an expert talk on "Entrepreneurship in Civil Engineering" by Er. A Rajendran MD, AR Fascinates and Shelters Pvt. Ltd, Coimbatore.



## CE - Entrepreneurship in Civil Engineering

The Department of Civil Engineering organized an expert talk on "Entrepreneurship in Civil Engineering" on 19.10.2022. Er. A. Rajendran, Managing Director, AR Fascinates and Shelters Pvt. Ltd, Coimbatore, was the resource person. He deliberated on Entrepreneurship and skills required to become an entrepreneur. The session was highly fruitful and effective.



## CE - 21st Century Skills (Learning for life on our time)

The Department of Civil Engineering organized a seminar on "21st Century Skills (Learning for life on our time)" on 19.10.2022. Mr. Mani Selva, Operation Manager, Atlas Mine Tronox Mining, Australia Limited, was the resource person. He deliberated on the 21st skills required to get placed in top- notch MNCs. The session was highly fruitful and effective.



## EEE – Quiz Series on Electric Vehicles XLII

The Department of Electrical and Electronics Engineering organized a “Quiz Series on Electric Vehicles – XLII” on 22.10.2022. A total of 120 students registered out of which 106 received the certificates. The Quiz was based on the recent trends and advancements in Electric Vehicles. It aimed at enhancing the knowledge of the students on Electric Vehicles.



## CE - Employability in Digital Construction

The Department of Civil Engineering organized an Industry Lecture on “Employability in Digital Construction” on 27.10.2022. Mr. Shiju Sasidharan, Founder and CEO – BILABS Global, was the resource person. He focused on employability and employability skills required to get placed in digital construction. He also insisted on upgrading ones knowledge and skills pertaining to construction. The session was highly fruitful and effective.



## CE – Training for GATE Examination

The Department of Civil Engineering organized a training session on “GATE Examination” on 27.10.2022. Mr. A. Vasudev, Trainer, KPR Civil Academy, was the resource person. He focused on the methods to train for GATE Examination and highlighted on the importance of taking up practice tests. The session was highly fruitful and effective.



## ME – Solar Energy System Design

The Department of Mechanical engineering in association with Indian Association of Energy Management Professionals jointly organized a seminar on “Solar Energy System Design” on 27.10.2020. Dr. Vimal Kumar Eswarlal, CEO, Mangla Smart Energy Solution (P) Limited, Tirupur was the guest speaker. The resource person presented the significance of energy management and the vitality of saving solar energy. He also gave lot of insights on the new technological advancements.





## BME - Strategic Plan Review meeting

The Department of Biomedical Engineering conducted Strategic plan Review meeting on 29.10.2022. The Review members were Mr.BB Mohanty, Regional Manager, Ottobock Pvt. Ltd, Coimbatore and Dr. Vijay, Associate Professor, Department of Biomedical Engineering, SSN college of Engineering, Chennai. The following suggestions regarding Installation of Calibration laboratory, Publication of Research paper in collaboration with MOU signed Hospital Doctor and increase in the number of PhD. Supervisors in the Department were provided.



## BME – Connect-O-Mania

The Department of Biomedical Engineering in association with the BMESI student chapter organized 'Connect-O-Mania' on 29.10.2022. The students actively participated in the Online Connection based quiz and it enhanced their skill sets on basic biomedical Equipment, radiological equipment and Diagnostic & Therapeutic equipment knowledge levels. The event was aimed to induce and enhance the knowledge on biomedical devices and new modern equipment. Nearly 80 students' participants and 6 faculty members attended the Connect-O-Mania session.



## S & H - Student Induction Programme

The Induction programme for the first-year students commenced on 31.10.2022. The programme lasted for three weeks during which, the students became familiar with a gamut of topics. Eminent speakers such as; Shri Vignesh Chaitanya from Chinmaya Mission, Dr. Thiruvalluvan, Vice Chancellor of Tamil University, Thanjavur, Mr.Arun.S.K, CEO of Audi Coimbatore and Madurai addressed the students.



## CE - AutoCADD

The Department of Civil Engineering in collaboration with the ICI student chapter organized a six – day AutoCAD lab training session from 31.10.2022 to 06.11.2022. This training program's major goal is to encourage students to plan and illustrate experiments in accordance with the guidelines provided, as well as to gauge their level of inventiveness. The Chairman of KM Associates, Er. N. Tamilselvan, shared with the students his knowledge of the field's expectations for the designations of draughtsman and interior designers. Additionally, he showed students some of his works and explained design principles and the use of fundamental tools with students. In total, 20 students have participated in this training program.



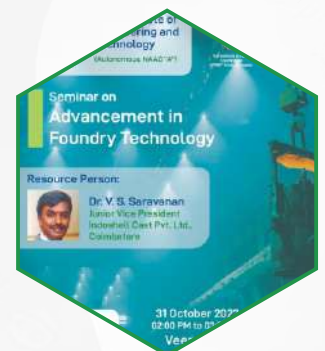
## ME - Qualities of a Cast Engineer Expected by the Industry

The Department of Mechanical Engineering organized an Expert talk on "Qualities of a Cast Engineer Expected by the Industry" on 31.10.2022. Mr. Suresh Kumar Perumalsamy – Founder CEO, AGNA Inc, Coimbatore was the guest speaker. He pointed out the new skills to be nurtured among the students to meet the industry expectations. He also encouraged the students to learn the applications of cutting-edge technologies.



## ME – Advancements in Foundry Technology

The Department of Mechanical Engineering organized a seminar on "Advancement in Foundry Technology" on 31.10.2022. Dr. V S Saravanan, Junior Vice President, Indoshell Cast Pvt Lmt, Coimbatore was the guest speaker. The Chief Guest presented the current technologies that are available in industries and also indicated the skills required to meet the industrial needs.



## BME - Pattern recognition using Principal Component Analysis and Decision theory

The Department of Biomedical Engineering organized a Webinar titled, "Pattern recognition using Principal Component Analysis and Decision theory" on 01.11.2022. The Resource person was Mr. R. Raghu, Computer Vision Engineer, Tartasense Pvt. Ltd., Bangalore. The Chief Guest interacted with the students regarding the analysis of Pattern recognition. He then explained the two methods of Analysis. Total of 53 students and two faculty members attended the webinar. The session was very interactive and the students got benefitted from the Webinar.



## Chem – Skill Sets and Career Opportunities for Chemical Engineers

The Department of Chemical Engineering in association with the Industry Institute Partnership Cell hosted an invited Industry Talk on "Skill Sets and Career Opportunities for Chemical Engineers" on 02.11.2022. Dr. M. Ramasamy, MachDatum Pvt. Ltd and Professor & Strategic Advisor/KPRIET was the resource person. The students were inspired by the informative session and learnt about the various career opportunities available in the field of Chemical Engineering. It was a great opportunity to gain first-hand insights from an industry expert, and our students took full advantage of it.



## EEE – Energy Saving App Development

The Department of Electrical and Electronics Engineering organized Energy Saving App Development program on 03.11.2022. The resource person, S.Chandra Prakash addressed the gathering and gave a glimpse on energy saving techniques and App development. He enthusiastically shared his experience for business model in energy sector.



## ECE – Physical Design using EDA Cadence Tool

The Department of Electronics and Communication Engineering in association with ISTE Faculty Chapter organized a hands-on training titled, "Physical Design using EDA Cadence Tool" on 03.11.2022 & 04.11.2022. Mr. Shivaprasad B K, Senior Field Application Engineer, Entuple Technologies Pvt. Ltd was the resource person. During the technical training various parameter estimation and analysis was done on combinational circuits among them few are Power estimation, Delay estimation, Floor planning and Area estimation in semi-custom mode as well as full-custom mode. Adding on to that testing, detection and diagnosis of several faults were also discussed.



## Chem – Interaction with Industry Expert

The Department of Chemical Engineering in association with the Industry Institute Partnership Cell, organized an interactive session with Mr. B. Karthick, Assistant Manager, Chemical Recovery Plant, Seshasayee Paper and Boards Limited, Erode on 04.11.2022. Our students were inspired by his insights and the interactive session left them with valuable knowledge and a deeper understanding of the field. The students found it to be a worthwhile activity that provided them with a valuable learning experience. The expert was open to comments and questions, which made the lecture even more engaging.



## ME - Mechanical Engineer to Entrepreneur - A Success story

The Department of Mechanical engineering and Mechanical Engineering Association organized a guest lecture on "Mechanical Engineer to Entrepreneur - A Success story" on 04.11.2022. Mr. Muthaiah Thiagarajan, Co-Founder & Director, Sporfy India Pvt Lmt, Coimbatore was the guest speaker. The Guest speaker deliberated the qualities of an entrepreneur and listed out the challenges one faces while emerging as an entrepreneur. He presented a lot of real time examples.





## ME - 3D Printing and 3D Scanning

The Department of Mechanical Engineering and Continuing Education Programme organized a One day workshop on "3D Printing and 3D Scanning" on 04.11.2022. Dr. M .Kumar Associate Professor and Mr.P.Arunkumar AP (Sr.G) of Mechanical Engineering, were the guest speakers. The workshop aimed at providing a hands-on experience to the students on 3D printing and the students were exposed to the working process of 3D machines.



## S & H - Indo-Japanese Industry Academic Alliance

Students of Indo-Japanese Industry Academic Alliance (KPRIET IJIAA Forum) promoted and performed Japanese Culture related activities at Chennai-Japan Expo on 5.11.2022.



## ECE - National Engineering Talent Submit & Exposition 2022 NETSE'22 -2.0

The Department of Electronics and Communication Engineering - Students' Association "SPARTRANZ" organized a "NATIONAL ENGINEERING TALENT SUBMIT & EXPOSITION 2022 NETSE '22 -2.0 on 05.11.2022, sponsored by "Enthu Technology" Co-Sponsored by "VAct Technologies" and "Silicon Systems Infinite Solutions". Mr. Balakumar Chinnusamy, Vice president, VVDN Technologies Pvt. Ltd., Pollachi was the chief guest for the inaugural ceremony. The chief guest presented the FPGA based Robotics computing, Multi robot collaboration on FPGA, and Space robots powered by FPGA. Around 500 participants from various institutions have participated in this event. Technical events competitions like paper presentation, project exhibition, Technical puzzles, and technical quizzes were conducted.



## EEE - Expert Visit

The EKKI-KPRIET International Water Technology Centre organized an "Expert Visit" in association with EKKI Pumps on 10.11. 2022. The expert Mr. Thien Han Trieu, International Procurement Manager, Pedrollo S.P.A, Italy was the International partner of EKKI pumps. He visited the EKKI KPRIET International Water Technology Centre (EIWTC) and appreciated the events conduction. He also visited robotics and automation centre, 3D printing laboratory, drones and UAV technology centre to explore the technology.



## BME - Alumni Interaction

The Department of Biomedical Engineering organized Alumni Interaction activity on 12.11.2022. The Guests were Mr. Karthick, KGISL and Mr. Manibalan, Machenn Innovations, Coimbatore. The Alumni explained the career opportunities of Biomedical field and the skills expected by the industry. The students actively interacted with the Alumni and enquired about the career opportunities and scope of Biomedical Engineers in Industry and Hospitals in future.



## EEE - Research Proposal Writing

The Department of EEE organized a webinar on "Research Proposal Writing" and invited Prof. R C Bansal as the resource person to deliver the webinar on 12.11.2022. Prof. Bansal deliberated on the prominent research areas such as power system, power electronics and renewable energy. He also elucidated on the importance of incorporating hardware results in the research papers. The session was fruitful for the faculty members to conduct research in the field of power systems and power electronics. He also illustrated on writing a winning proposal and the nuances of writing a brilliant research paper.



## CE - Interaction with Rain man

The Department of Civil Engineering in association with KPRIET ASCE Student Chapter organized an expert talk on "Interaction with Rain Man" on 23.11.2022. Dr. S. R. Ramanan, Former Director, of Area Cyclone Warning Centre, Chennai was the Chief Guest. Dr. S. R. Ramanan advised the students to have a dream and asked them to work hard for making it true. He explained the various flood prediction methods & software used in the meteorological department. He also explained the importance of news channels to reach the public the most. And he addressed the students on the opportunities available for civil engineering students in the meteorological department.



## S & H - Creative Project Contest

Creative Project Contest was conducted for the first-year students on 24.11.2022, on the theme Reuse of Plastics and Cans with Plants. The most innovative projects were shortlisted and the principal felicitated the winners.



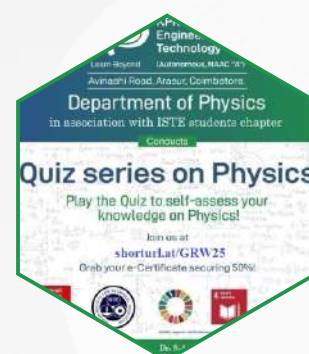
## S & H - Unacademy

Unacademy conducted a session for the first-year students on 30.11.2022 which was followed by a quiz competition. Top ten students were awarded cash prizes. The first prize was bagged by Vaibhav Krishna of I AIML.



## S & H - Quiz Series

Department of Physics, in association with ISTE students chapter conducted "Quiz series on Physics" on 19.10.2022, 28.11.2022 and 31.12.2022.



## S & H - Special Lecture

Department of Chemistry organized a Special Invited Lecture (Online) on the topic "eDiagnostics-Solid-State Sensors For Identification Of Biomolecules & Pathogens" on 02.12.2022. Dr. Vengadesh Periasamy, Deputy Head, Low Dimensional Materials Research Centre (LDMRC), Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, Malaysia was the resource person. The webinar was conducted with 144 members comprising faculty, research scholars and students from various institutes of India, Malaysia and Japan.



## S & H- Why Learn German?

The Centre for Foreign Languages organized an orientation session for the first year students on the topic Why Learn German? on 15.12.2022 Mr.Armin Alagic Muller, Associate Director, GOETHE Zentrum, Coimbatore was the resource person.





## S & H - Student Development Programme

Department of English organized a Student Development Programme on Reading in the Age of Digital Natives on 16.12.2022. Dr. Neha Soman, Faculty, Department of Humanities and Social Sciences, National Institute of Technology, Warangal was the resource person.



## S & H - National Conference

The Department of Chemistry and the Centre for Nano science and Technology, KPR Institute of Engineering and Technology, Coimbatore organized a two days National level Conference on "Advanced Materials for Strategic Application and Sustainable Future" (AMSAS - 2022) sponsored by Defence Research and Development Organisation (DRDO) 16th and 17th December, 2022. Dr. P. Kolandaivel, Former Vice Chancellor, Periyar University, Dr. M. Akila, Principal, KPR Institute of Engineering and Technology and Dr.K. Kadirvelu, Scientist 'F' and OIC, DRDO - BU Centre for Life Sciences, Bharathiar University, inaugurated the conference.



## S & H - National Mathematics Day

Department of Mathematics celebrated National Mathematics Day on 22.12.2022. Dr. P. Geetha delivered the expert lecture. Art Gala 22 was also organized as part of the Mathematics Day celebrations and students participated in large numbers. The winners were felicitated.



## S & H - MOC Audition

Department of English and Sweet Talkerz jointly organized MOC Audition for KPRIETians on 30.12.2022. The students expressed their interest by participating in large numbers.



# Patent Publications

## Chem

- Mr. R Krishna Kumar, filed a patent on "Intelligent Restaurant Using Smart Beacons" on 29.07.2022.
- Dr. S. Logesh Kumar, filed a patent on "IoT based brain signal analysis and prediction system for patient" on 16.09.2022
- Dr. P. Sreelatha, filed a patent on, "Method for precision agriculture using internet of things" on 21.10.2022.

## Civil

- Mrs. B. S. Meenakshi, Dr. G. Anusha, Dr. V. Rajesh kumar, Mrs. P. Indhiradevi, Mrs. R. Kavitha, Ms. T. Sathiyapriya, Mr. V. Gurunathan, Mr. S. Ganeshkumar filed a patent on "Potential Usage of E-waste in Manufacturing Tiles with Epoxy Resin Coating".

## EEE

- Dr.C.Pazhanimuthu, filed the patent on "ANN Based Novel Vehicle Tracking System for Anti-Theft Application" in October 2022.

# Industry Collaboration



CE – MoU with Ply tree Interiors & Planners



CE – MoU with Ayari Venture Private Limited,  
Greenboro, NC, USA

## Student Achievements

- Mr. S. Madhavan, III EC, Mr. Udhayadharanish, II EC, Mr. Kishore, III EC, Mr. Levin, III EC won 1st Prize with 30000 cash Prize in 48 hour hackthon "Rigathon 22" at Kumaraguru College of Technology, Coimbatore
- Mr. V. Aravind, IV EE won First Place in Trade OFF at Sri Krishna College of Engineering and Technology, Coimbatore.
- Mr. V. Aravind, IV EE secured Second place in UV DRONE IDEATHON" contest at Sri Krishna College of Engineering and Technology, Coimbatore
- Mr. R. Abimanyu, M.E., VLSI won Gold medal and is selected for Nationals to represent 4th TamilNadu state KUDO Tournament 2022-23.
- KPRIET NCC Students are selected to represent Tamilnadu in All India Vayu Sainik Camp 2022, Jodhpur, Rajasthan.
- Mr. S. Pannai Alangara Pandian, II EE secured 1st Place Javelin Throw Vishwankar 61st Junior and Senior Athletics Championship 2022.
- Mr. P. Balaji won Gold Medal & Silver Medal in U-21 Male Kumite (67kg) & Senior's (67kg) in 31st Coimbatore District Karate Championship – 2022
- Ms. S. Susmitha, II EE secured Gold Medal under U-19 Category in 2nd Coimbatore District Roller Skate Basketball Championship 2022
- Mr. B. Ram Vignesh, ME and Mr. K. Lalith, III – EC won Dr. Kalam Young Achiever Award 2022 at World Youth Federation.
- Ms. S. Isabella, III BM, won Silver Medal at the Best Pilot Event, All India Vayu Sainik camp, NCC.
- Mr. Akilesh, III Civil won silver in Drill, All India Vayu Sainik Camp 2022.
- Ms. M Archana, II CH secured Gold Medal in Rifle Shooting Competition at Gobichettipalayam Rifle Club Association
- Ms. S. Keerthana, II CH secured Silver Medal in Rifle Shooting Competition at Gobichettipalayam Rifle Club Association.
- Mr. P. Thanuskodi Adhityan, succeeded Record 2022 in Silambam Mass World Record Attempt India Book of World Records
- Mr. A. Sethumadhavan and Mr. S. Srisanjay of III EEE, won II Place in Drone Racing at Sahyadri Engineering College, Mangalore
- Mr. Siddarth, Mr. P. Vigneshwaran and Mr. K. Jaiprakash of III CE secured I Place & Rs.10000/- cash price in ACI cube contest.
- Mr. S. Gokulnath, III EEE was honored as Asians Young Entrepreneurs Award by Time Organization, Madurai.
- Mr. Visva K. S, I EE and Mr. Dhanush K. S, I ME secured First & Second Place with cash prize 40000/- in the ROWBOATICS competition organized by IIT Bombay.
- Mr. Visva K. S, I EE and Mr. Dhanush K. S, I ME secured First & Second Place in the ISO-certified national-level event "ROBOVEDA 22" at Sreenidhi Institute of Science & Technology (SNIST), Hyderabad.



- Mr. Dhanush Kumar I ME, Mr. Aravind I ME and Mr. Agash, I - CSBS secured 2nd place with cash prize 25000/- in India's flagship technology event and Asia's largest tech summit, TECHFEST 2022 at IIT Bombay.
- Ms. S. Ruth (III BM) secured Silver Medal in 5000m and bronze medal in 1500m in the Anna University Zone at CIT College, Coimbatore
- Mr. Sethumadhavan A. and Mr. Srisanjay S. of III EEE Won Second Prize in drone racing competition at Sahyadri Engineering College, Mangalore
- Mr. Pravin E, III EEE won Gold Medal in Rifle Shooting competition held at Nehru Air Rifle Academy
- Mr. Vignesh M, III EEE won Silver Medal in University Taekwondo Match, Anna University Sports Board
- Athletic Team - Men were declared as Overall – Winner in ANNA UNIVERSITY ZONE-9 ATHLETIC MEET at Coimbatore Institute of Technology.
- P.J. Harivatsan of Mechatronics department won the first prize in single stick silambam in a state level competition conducted in Salem.
- Visva K.S of first EEE and Prasanna Kumar. T of first AD participated in India's flagship technology event and Asia's largest tech summit "TECHFEST 22" and bagged the 1<sup>st</sup> place.
- Dhanush and Aravind of I Mechanical and Agash of I CSBS participated in India's flagship technology event and Asia's largest tech summit "TECHFEST 22" and bagged the 2<sup>nd</sup> place.
- K.P. Manish of first Mechanical won three prizes in zonal level Anna university athletic meet in Coimbatore. He bagged the gold medal in 800m running and 1500m running. In 4×400m relay he was awarded the third prize.

## *Faculty Achievements*

- Dr.A.Karthick, Associate Professor recognized as Top 2% of scientist in world rank by Stanford University, USA and Elsevier.
- Dr.S.Ravishankar, Associate Professor and Dr.P.Manoj Kumar, Associate Professor from the Department of Mechanical Engineering are in the list of Top 2% Scientist in the world, by Stanford University, USA.
- Dr.S.Jayabal, Assistant Professor (SrG), Department of Chemistry and Dr. M. Subramanian, Assistant Professor (SrG), Department of Mathematics have been recognized as supervisors by Anna University.
- Dr. Charly Jerome, Assistant Professor (SLG), Department of English was conferred ANO-6 TN Medical Company.
- Dr.M.Akila, Principal, has been honored with Outstanding Leader in Higher Education in the 14th Elets Higher Education Summit.
- Dr. Ranjith Kumar Eswaran, AsP / Physics, Dr. A. Karthick, AsP / EEE, Prof. Ravishankar Sathyamurthy, AsP / ME and Prof. Manoj Kumar Pasupathi, AsP / ME are honoured as Top 2% of scientist in World Rank by Stanford University, USA and Elsevier
- Prof. R.Navaneethakrishnan Head, CFI and PR is honoured with Best Young Professional 2022 Award by IEEE Madras Section.

# Faculty as Resource Person

## Chem

- Dr. S. Karunakaran, Associate Professor, Department of Chemical Engineering, KPRIET was invited as a Chief Guest for the National Level Technical Symposium conducted by Hindustan Institute of Engineering and Technology, Coimbatore on 05.11.2022
- Dr. R. Umapriya, Assistant Professor (Sl. Gr), Department of Chemical Engineering served as a resource person for Faculty Development Program organized by JCT College of Engineering and Technology between 21.11.2022 to 25.11.2022 and presented a talk on "Applications of the membrane in wastewater treatment".
- Lt. Dr. A. K. Priya, Professor and Associate Head, Department of Chemical Engineering, KPRIET presented an insightful lecture on "Zero Waste Management" as part of National Pollution Prevention Day 2022 at Yashoda Technical Campus Faculty of Engineering, Satara on 02.12.2022.

## Civil

- Mr. S. Vinoth, Department of Civil Engineering, acted as a resource person for a webinar titled, "Why Career is important for lions club" organised by LEO Club of Tiruppur on 09.10.2022.
- Mr. Logeshwaran, Department of Civil Engineering, acted as a resource person for a webinar titled, "Fundamentals of Transportation Engineering" organised by DMI Engineering College on 15.10.2022.

## ECE

- Dr.R.Arunkumar, Associate Professor, Department of ECE, acted as resource person and presented a talk on "Blockchain Technology and its impact on society" organised by Siddhartha Institute of Technology & Sciences, Peerzadiguda, Hyderabad, Telangana on 25.11.2022.
- Mr.G.K.Jakir Hussain, Assistant Professor (SL.G), Department of ECE, acted as resource person for "Constitution Day" organised KPR Institute of Engineering and Technology on 25.11.2022.
- Dr.S.Finney Daniel Shadrach, Assistant Professor (SL.G), Department of ECE, acted as resource person and presented a talk on "PCB Design Skills" organised by Avinashilingam School of Engineering on 09.11.2022.

## S&H

- Dr. P. Geetha, Professor and Head, Department of Mathematics was invited as a resource person for Career Guidance Program conducted by Chavara Vidya Bhavan, Vadavalli, Coimbatore on 18.10.2022.
- Dr. M. Prakash, Assistant Professor (SL.G), Department of Mathematics acted as a resource person for Career Guidance Program conducted by Chavara Vidya Bhavan, Vadavalli, Coimbatore on 18.10.2022.
- Ms. S. Brindha, Assistant Professor (Sr.G), Department of English, acted as a resource person and delivered a lecture on the topic "Nits and Grits of Enunciation" on 30.09.2022 in Shree Venkateshwara Arts and Science College, Gobi.
- Dr. K. Janagi, Assistant Professor (SL.G) Department of Mathematics acted as resource person for First year Induction programme conducted in Sri Shanmuga College of Engineering & Technology, Sangari on 24.11.2022.
- Dr. P. Suriyakumar, Assistant Professor (Sr.G) Department of Mathematics acted as a resource person for Intel Costume & Science Talent Expo organized by Vidhya Nikethan Intel Public School, Rasipuram on 26.11.2022.
- Dr. K. Janagi, Assistant Professor (SL.G) Department of Mathematics acted as resource person and delivered a lecture on "Joy of Mathematics in Engineering". The event was conducted by Sengunthar Engineering College, Tiruchengode, on 28.12.2022.

# Faculty Publications

## BME

- Ganeshkumar Deivasikamani; Akshay. C; Ananthkrishnan. T; Rohith. C. Manoj, "Covid Cough Classification using KNN Classification Algorithm", IEEE Xplore, 232-237, SCOPUS indexed
- K. Sasirekha, Miruna Joe Amali, M. Swathy, M. Raghini, B. Priya Darhshini, "A Steganography embedding method based on CDF-DWT technique for data hiding application using Elgamal algorithm", Biomedical Signal Processing and Control, 80, 104212 (2023), SCI indexed
- Iswarya M, Jeslin Libisha, E.C. Sowmiya, S. Harishma, John Amose, "Medical Data Analytics and Wearable Devices", EAI Endorsed Transactions on Smart Cities, 6(4) (2022), WOS Indexed.

## Chem

- L. Dharani, "Graphene Derived Electrode Materials for Microbial Fuel Cells", Sustainable Materials Technology, Springer, Chapter 5, pp: 119-138, October 2022.
- A. K. Priya, "Metal-organic framework-enabled pesticides are an emerging tool for sustainable cleaner production and environmental hazard reduction", Journal of Cleaner Production, Volume 373, November 2022.
- S. Balasubramanian, "Computational Fluid Dynamics Studies on the Flow of Fluids through Microchannel with Intentional Obstacles", AIP Conference Proceedings, <https://doi.org/10.1063/5.018550>, November 2022.
- S. Balasubramanian, "Thermal Processing of Liquid Food in a Rectangular Prism-Type Container", AIP Conference Proceedings, <https://doi.org/10.1063/5.0108654>, November 2022.
- L. Dharani "Shell and Tube Heat Exchangers in the Food Industry", Elsevier, Chapter 5, pp: 153-179, December 2022.

## Civil

- Dr. K. S. Elango and et al published paper on the title "Strength, durability and microstructural properties of Geo-polymer concrete – A review" in The Indian Concrete Journal, Vol.96, No:4, pp, 1-18 in Scopus.
- V. Kavinkumar, A. K. Priya, P. Mathivathani, S. Vijayanand and V. Suriyaganesh published paper on the title "Review on strength and durability performance of cenosphere and flyash in light weight concrete" in Scopus, Materials Today: Proceedings.
- V. Kavinkumar and et al published paper on the title "Development of plastbrick using plastic wastes & PET bottles" in Scopus, Materials Today: Proceedings.



## EEE

- Dr.A.Karthick, "Prediction of the Age and Gender Based on Human Face Images Based on Deep Learning Algorithm", Computational and Mathematical Methods in Medicine, Article ID 1413597, October 2022.
- Dr.A.Karthick, "Relevant-based feature ranking (RBFR) method for text classification based on machine learning algorithm", Journal of Nanomaterials, Article ID 9238968, October 2022.
- Dr.A.Rakeshkumar, "Sizing of rooftop PV array and community-run battery storage for an energy cooperative in prosumer cluster", Distributed Generation & Alternative Energy Journal, Volume 37, Issue 6, October 2022.
- Dr.C.Pazhanimuthu, "A Grid-Connected Solar PV/Wind Turbine Based Hybrid Energy System Using ANFIS Controller for Hybrid Series Active Power Filter to Improve the Power Quality", International Transactions on Electrical Energy Systems, November 2022.
- Dr.A.Karthick, " Productivity Enhancement of Solar Still through Heat Transfer Enhancement Techniques in Latent Heat Storage Systems: A Review", Environmental Science and Pollution Research, November 2022.
- Dr.P.Ravikumar, published the book in the title of "Solar Energy, Green Energy and Renewable Energy Challenges for Sustainable Environment" in Scientific International Publishing House Publisher, November 2022.
- Dr.V.S.Chandrika, published the book chapter in the title of "Detection of Cyber Crime Based on Facial Pattern Enhancement Using Machine Learning and Image Processing Techniques" in IGI Global International Academic Publisher, November 2022.
- Dr.V.Parimala, filed the patent of "Self Energized Bicycle with Bullet Alternator and GPS Tracking System" in November 2022.
- Dr.V.S.Chandrika, published a book titled "Introduction to Wireless Technologies", Publisher: Scientific International Publishing House in October 2022.

## ECE

- Vasim Babu M, V., Kumar, C. N. S. V., Parthiban, S., Padmavathi, U., & Rahman, M. Z. (2022). AE-Leach: An incremental clustering approach for reducing the energy consumption in WSN. *Microprocessors and Microsystems*, 93, 104602. <https://doi.org/10.1016/j.micpro.2022.104602>
- Santhosh Kumar, P., Kamath, R. N., Boyapati, P., Joel Josephson, P., Natrayan, L., & Daniel Shadrach, F. (2022). IOT Battery Management System in electric vehicle based on LR parameter estimation and ORMESHNet Gateway topology. *Sustainable Energy Technologies and Assessments*, 53, 102696. <https://doi.org/10.1016/j.seta.2022.102696>
- Kandasamy, S. K., Maheswaran, S., Karuppusamy, S. A., Indra, J., Anand, R., Rega, P., Kavitha, A., Immanuvel Arokia James, K., Nehru, K., & Kathiresan, K. (2022). Design and fabrication of flexible Nanoantenna-based sensor using graphene-coated carbon cloth. *Advances in Materials Science and Engineering*, 2022, 1-7. <https://doi.org/10.1155/2022/2265904>

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- Divya K, Maheswar R, Jayarajan P, "Mitigation of E2E Delay in LF-IEHM Routing Protocol for Underwater Acoustic Wireless Sensor Networks", *Ad Hoc & Sensor Wireless Networks*, Old City, November 2022 (IF: 0.4). <https://www.oldcitypublishing.com/journals/ahsw-n-home/ahsw-n-issue-contents/ahsw-n-volume-53-number-3-4-2022/20888-2/>
- Ramprasath, J., Krishnaraj, N., & Seethalakshmi, V. (2022). Mitigation services on SDN for distributed denial of service and denial of service attacks using Machine Learning Techniques. *IETE Journal of Research*, 1–12. <https://doi.org/10.1080/03772063.2022.2142163>
- Deepa, S., Sridhar, K. P., Baskar, S., Mythili, K. B., Reethika, A., & Hariharan, P. R. (2022). IOT-enabled Smart Healthcare Data and health monitoring based machine learning algorithms. *Journal of Intelligent & Fuzzy Systems*, 1–15. <https://doi.org/10.3233/jifs-221274>
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- Vasim Babu M, "A Novel Efficient AI Based EEG Workload Assessment System using ANN-DL Algorithm", *International Conference on Paradigms of Communication, Computing and Data Sciences (PCCDS 2022)*, July 5-7, 2022.
- K. Saravanan, E. Siva Prasanna, R. Sattish, R. Udhaya Abinesh and P. Anandakumar, "Automatic Floor Cleaning Robot," 2022 IEEE International Conference on Data Science and Information System (ICDSIS), 2022, pp. 1-5, doi:10.1109/ICDSIS55133.2022.9915986., July 29-30, 2022.
- Kathirvelu M, , Janaranjani, A., Navin Pranav, A. T., & Pradeep, R. "Voice Recognition Chat bot for Consumer Product Applications", *IEEE International Conference on Data Science and Information Systems (ICDSIS-2022)*, July 29-30, 2022. <https://doi.org/10.1109/icdsis55133.2022.9915884>
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- Ram Nivas D, "Plant Health Monitoring System and Smart Gardening using IoT", *IEEE International Conference on Data Science and Information Systems (ICDSIS-2022)*, July 29-30, 2022.
- Vasim Babu M, Madhusudhan Reddy M, Vinoth Kumar C, Ramasamy R, Aishwarya B, "Swarm Intelligence based Clustering and Routing Using AISFOA-NGWO for WSN", *IEEE International Conference on Intelligent Systems*, September 5-6, 2022.

- D Venugopal, Dhanush, Naresh kumar, Jaya Shankar , "Experimental analysis on design and implementation of steam oven using copper tubes for heating applications" Materials Today : proceedings, Vol 66, Part 3, 2022, PP–1183–1188.
- Mohammad Sarwar Raeen, Anveshkumar Nella and Rajagopal Maheswar, "A THz Tuned Plasmonic Material Absorber in Visible Light Spectrum for Low Power Devices", Wireless, Antenna and Microwave Symposium (WAMS), IEEE, June 2022. <https://ieeexplore.ieee.org/document/9848234>
- T. V. J. Rao, R. Arun Sekar, B. Drakshyani, P. K. Chakravarthi, N. Kumareshan and S. P. Karthi, "IOT based Smart solution for Traffic congestion at Metro Cities," 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), 2022, pp. 1-6, doi: 10.1109/ICSES55317.2022.9914174.
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- M. K. B, M. S. Kumar, Finney Daniel Shadrach, S. R. Polamuri, P. R and V. N. Pudi, "A binary Bird Swarm Optimization technique for cloud computing task scheduling and load balancing," 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), 2022, pp. 1-6, doi: 10.1109/ICSES55317.2022.9914085.
- M. Singaram, A. Pramodh, P. J. Harini, R. Praveen, S. Hari Pranav and K. Vijayakumar, "IOT based LED Electronics board," 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), 2022, pp. 1-5, doi: 10.1109/ICSES55317.2022.9914315.
- M. Bharath, J. Indra and S. Kirubakaran, "Design and Development of Virtual Lab Environment for Embedded System and IoT Applications," 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), 2022, pp. 1-6, doi: 10.1109/ICSES55317.2022.9914369.



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- Ishwarya, Eswaramurthy, Gayathree, Ram Nivas, "An survey on higher order majority gates utilized in novel Quantum Dot Cellular Automata Technology (QCA)", in International Conference on Augmented Intelligence and Sustainable systems, 24-26 November, 2022
- V.Seethalakshmi, R.Vijaya, J.Pavithra, C.Jency, Sakena Benazer S, Pooja Jha, "Machine Learning approaches for detecting epileptic seizures based on EEG signals", in 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon) on 16 - 17, October 2022
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## Mech

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- Ramesh C, Mohammed Tharwan, P. Manoj Kumar, Dawit Tafesse Gebreyohannes, "Microstructural and Mechanical Characteristics of Pure-Cu/brass Dissimilar Joints Welded by Friction Stir Welding Using Various Process Parameters", Advances in Materials Science and Engineering, vol. 2022, Article ID 2234352, 10 pages, 2022. <https://doi.org/10.1155/2022/2234352>
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- S Deepan, S Santhosh Raj, T S Ponselvan, R Praveenkumar and J. Alex, Integration of Lean Principles with Fuzzy FMEA in a Small Scale Casting Industry, Journal of Physics: Conference Series, 2272 012029, 2022, <https://iopscience.iop.org/article/10.1088/1742-6596/2272/1/012029/pdf>
- N. Karthi, D. Balaji\*, N. Vignesh Kumar, L. Feroz Ali, D. Abilash, S. Akash, G. Gajendran, Physical and Mechanical Properties of Randomly Oriented Natural Fiber Hybrid Composites for Exterior Applications, Materials Science Forum, <https://doi.org/10.4028/p-hfs96t> <https://www.scientific.net/MSF.1070.89>
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## S&H

- Dr. K. Karthikeyan of Mathematics department, has published a paper titled Existence Solutions for Implicit Fractional Relaxation Differential Equations with Impulsive delay Boundary Conditions, AXIOMS, on 6.11, 2022.
- Prof. R. Jagadeeswari of Chemistry department has published a patent entitled "Floor mat with cleaning unit" on 18.11.22
- Prof. Brindha S of English Department has published a paper titled A Comprehensive Review on the Process of Teaching and Learning English Language through Literature. in Jundishapur Journal of Microbiology. Vol.15. No.2. in October 2022.



# Service to Community

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