

SKCET

Buzz



24th February- 1st March 2024



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INSTITUTIONAL EVENTS



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EEE & ECE | CENTRE OF EXCELLENCE INAUGURATION



SKCET signed a **Memorandum of Understanding (MoU)** with **Kinpaun Technologies**, Coimbatore to foster collaboration between Academia and Industry on 26.02.2024.

As an outcome of the MoU signed, **Centre of Excellence** in '**Energy Management and Industrial Automation**' was inaugurated by our **Principal Madam Dr.J.Janet** in the presence of **Mr.Jaganadan Hariharan**, CEO, Kinpaun Technologies, Coimbatore.

The MoU will further facilitate In-house real time projects, Internship offers for students, in plant and Skill Development Training, Consultancy Projects. An exclusive website of **Kinpaun Technologies** designed by our **Second year EEE and ECE** students was also launched by our **Principal Madam Dr.J.Janet**. This website will showcase the real time and consultancy projects undertaken by the students.

EEE & ECE | INDUSTRY PROJECT



As an outcome of the MOU signed 10 dynamic students of **Second** year **EEE** and **ECE** will embark on an exhilarating industry project at the newly inaugurated Center of Excellence (COE) in Energy Management and Industrial Automation.

Our **Principal Madam, Dr.J.Janet**, personally engaged with these students, instilling in them a fervent motivation to excel and make the most out of this incredible opportunity.

EEE | TEAM ARINNA



Department of EEE has introduced a new vibrant **EEE girl's team** to revolutionize the world of motorsport - **Team ARINNA**.

The team comprises talented drivers, skilled technicians, dedicated faculty mentors and is led by a group of determined young women who are all set to break barriers in the world of motorsport. The team has now geared up to set their spot in the E-Kart racing championship event organized by the **Academy of Indigenous Motorsport**. Our **Principal Madam Dr.J.Janet**, extended her heartfelt wishes for the team's triumph, marking the beginning of an exciting journey.

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**HACKATHON
ACCOLADES**



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AI&DS | HACKATHON



Bharathwaj P R, Adithya J and Jothis P G students of **First year AI&DS** have actively participated in the 24-Hour National Level Techathon 2024 conducted on 17.02.2024 and 18.02.2024 organized by Innovation Foundation Pune.

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**STUDENTS
PROGRESSION**



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EEE | VISAI 2024 - INTERNATIONAL PROJECT COMPETITION



Two student teams from the Department of **EEE** have excelled in the Grand Finale of '**VISAI 2024 - 14th International Project Competition and Exhibition**', organized by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai in collaboration with UNESCO - Indian National Commission for Cooperation (INCCU) on 24.02.2024.

Out of 74 competing teams, EEE teams have secured First and Third Places under the problem statements - Automated Digital Safety Kit for Forklift & Affordable in Clean Energy. The students were honored with Merit Certificates and a total cash award of Rs.12,000/-.

Team 1: First Prize for the project titled '**Smart Automated Safety Net Kit for Forklift**'.

Team Members: Vidhushini K - II EEE B, Saran R - II EEE B, Tamil Selvan M - II EEE B

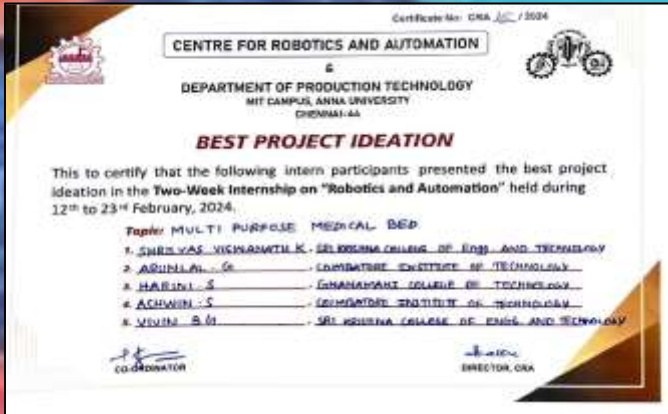
Faculty Mentor: Ms. R.Geethamani, AP/EEE

Team 2: Third Prize for the project titled '**Design and Development of Highway Power Generation using Wind Energy System**'.

Team Members: Thangavel A - III EEE B, Raghul M - III EEE B, Harini Sruthi K P - III EEE B

Faculty Mentor: Dr. N.Loganathan, AP/EEE

EEE | INTERNSHIP ON ROBOTICS & AUTOMATION



Student team from Second year EEE has successfully completed Two - week internship on **Robotics and Automation** conducted by the Centre for Robotics and Automation in association with the Department of Production Technology, Madras Institute of Technology campus, Anna University, Chromepet, Chennai from 12.02.2024 to 23.02.2024.

Best Project in Intern Ideathon: Shreyas Viswanth K and Vivin B G of Second year **EEE B** submitted their Project idea titled **Multipurpose Medical Bed** and it was recognized as Intern Best Project idea.

CSBS | IIC INNOVATION CONTEST



Student team from the Department of **Computer Science and Business Systems** has clinched **Second Prize** in the **Thiran 2.0 IIC Innovation Contest**, a prestigious National Level event organized by Jansons Institute of Technology, Coimbatore on February 24th, 2024.

Title of the Project: Ovarian Cancer Subtype Classification and Outlier Detection

TEAM MEMBERS:

- DURAIRAJ S, II CSBS
- ROSHNI A, II CSBS
- MADHUMITAA B, II CSBS
- PRADEEP M, II CSBS

Mentor: Dr.G.Ignisha Rajathi, Associate Professor, CSBS

EEE | QUIZ COMPETITION



Sanjiv Dharshan and Sathiya Narayanan students of **Second year EEE B** have secured **Third** prize in **ROBORG 24-Quiz** event conducted by the Mechatronics Department of SKCET in association with IEEE Robotics and Automation Society (IEEE RAS) organized on 23.02.2024.

MCT| INTERNSHIP ON ROBOTICS & AUTOMATION



Following **Third** year students from the Department of **Mechatronics Engineering** have underwent two weeks internship on "**Robotics and Automation**" from 12.02.2024 to 23.02.2024, conducted by Centre of Robotics and Automation, MIT Campus, Anna University, Chennai.

- Adithy.U
- Abinith.R
- Baranisundar.S
- N.Bharanidharan
- J.Bharanidharan
- Harikrishnan.C
- Jayananth.JP
- Logapranav
- Logapriyan.M

MECH | STUDENT CERTIFICATION



Monish A, student of **Third year Mechanical Engineering** has received a certificate of appreciation for being **Track and Timing Volunteer** from **Formula Bharat 2024** competition from **19.01.2024 to 24.02.2024**.

CSBS | JUST A MINUTE



Jothi Babu, student of second year **Computer Science and Business Systems** has secured **Second Place** in the Intercollegiate Event “**Just a Minute**” conducted as a part of **ROBORG 24** by the Department of Mechatronics Engineering on **16th February 2024**.

IT | INTERNSHIP ON ROBOTICS & AUTOMATION



Subhesha S, Subasri B, students of Second year IT have successfully completed Two-Week Internship on **Robotics and Automation** during 12-02-2024 and 23-02-2024 certified by the Department of Production Technology, MIT Campus, Anna University.

IT | ROBOG 24



Thesjaswini K, Sahana C R, students of **Second year IT** have secured **First place** in the Intercollegiate event Quiz competition conducted as a part of **ROBOG** by the Department of Mechatronics Engineering, SKCET on 16-02-2024.

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STUDENTS CERTIFICATION



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AI&DS | WORKSHOP



Ashika SM and Lipeka D, students of **Second year AI&DS** have participated in the Workshop on “**Sensor Interface and Integration**” organized as a part of KRIYA 2024 by PSG College of Technology from 23.2.2024 to 25.2.2024.

AI&DS | COURSERA CERTIFICATION



Sanjay M, student of **First year AI&DS B** has successfully completed “**Introduction to Artificial Intelligence (AI)**” course offered by Coursera on 24.02.2024.

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EVENTS



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EEE | WORKSHOP ON INNOVATIONS AND ENTREPRENEURSHIP



IIC of SKCET in association with the Department of **Electrical Electronics and Engineering** organized a Workshop on '**Innovations and Entrepreneurship**' for Second year EEE Students on 23.02.2024.

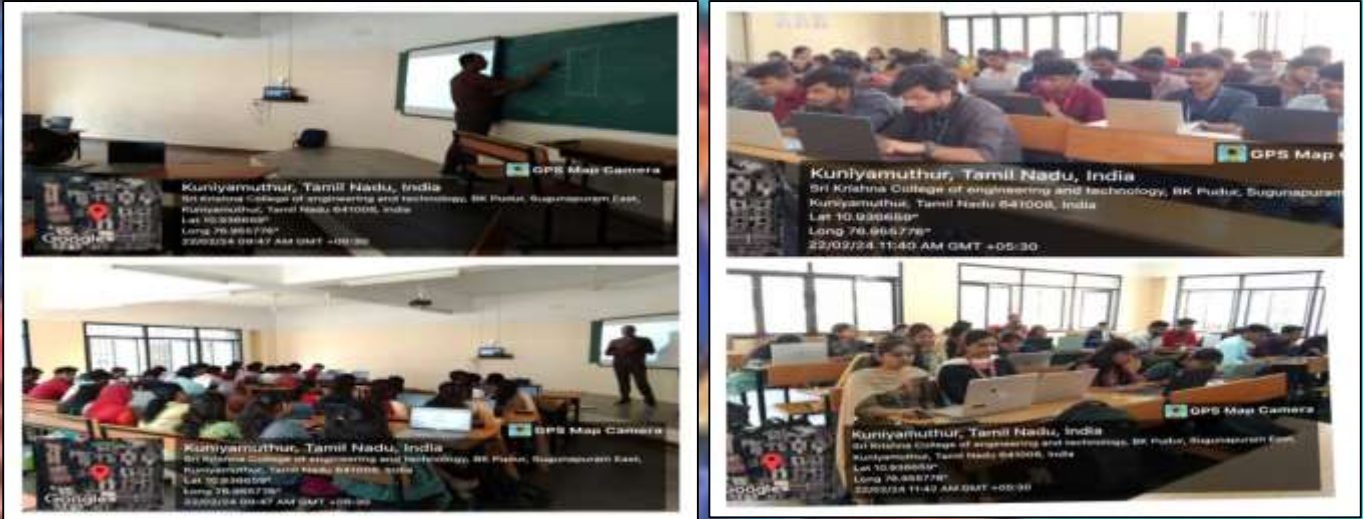
Session 3 - Innovations into Entrepreneur - Ideas and Experience

Resource Person: Mr. T. U. Vishnu, VR Training Tech Head, Machenn, Coimbatore.

Session Highlights:

- Challenges and steps to run successful business as an entrepreneur, Startup ideas and entrepreneurship, Govt fund schemes for startup companies, Different Business model and Marketing strategies.

EEE | WORKSHOP ON INNOVATIONS AND ENTREPRENEURSHIP - DAY 2



Resource Person: Mr. A. Prabhakaran, Project Engineer, ZED Digital, Coimbatore.

Session 1: PCB design process and routing

Key Pointers:

- In-depth examination of the ATmega328P microcontroller, Practical application of relays in circuit design, Analysis of the pin diagram of the ATmega328P, Comprehensive understanding of oscillators/crystals and their role in electronic circuits.

Session 2: Exploring Circuit Simulation with Proteus Tool

Key Pointers:

- Hands-on experience in developing a moderate circuit using KiCad, Cost Optimization Strategies, Emerging Technologies and Trends.

EEE | IIC OUTREACH ACTIVITY



IIC of SKCET in association with the Department of **Electrical Electronics and Engineering** organized an Outreach Programme for **Self Help Women Group (SHG)** on the theme **Innovations and Entrepreneurship** at Palamalai village to enrich the economic growth of Irular tribal community on 24.02.2024.

Resource Person:

Ms. S. Santhi Priya,
Village Panchayat President, Naickenpalayam, Periyanaickenpalayam block, Coimbatore.

Session Highlights:

- Importance of millet products in market
- Startup ideas and entrepreneurship in millet products
- Government fund schemes for startup
- Skill development and training to enrich the innovations in processing millets
- Business model and marketing strategies in millet products

The Panchayat President and SHG members thanked the Institution for the great initiative taken for their economic growth enrichment.

MCT | ROBORG 2024



Department of **Mechatronics Engineering** in association with **IEEE Robotics and Automation Society (IEEE RAS)** organized **ROBORG 24** on 23.02.2024. **Mr. B. Shakthi**, Senior Associate Consultant, Bosch, Coimbatore was the Chief Guest.

Session Highlights:

- Technological improvements required for Engineers
- Application of AI
- Future of Mechatronics Engineering

M.TECH CSE | EMPOWERING YOUNG MINDS: INSPIRING READING AND WRITING THROUGH BOOK TALK SESSIONS



C.N Gunathmika Chandraleka, student of **First year M.Tech CSE** conducted her inaugural book talk sessions at TIPS (The Indian Public School) Erode on 22.2.2024 and at the TIPS Salem branch on 23.2.2024. She encouraged the students to cultivate a habit of reading and writing by engaging them in interactive book reading sessions. The session was to inspire students from grades 3 to 6 to enhance students creative writing skills.

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**RESEARCH AND
DEVELOPMENT**



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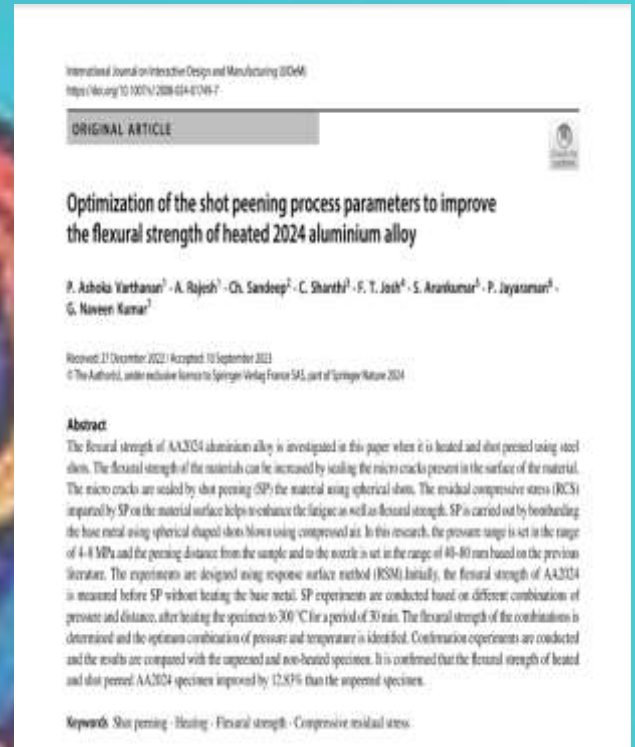
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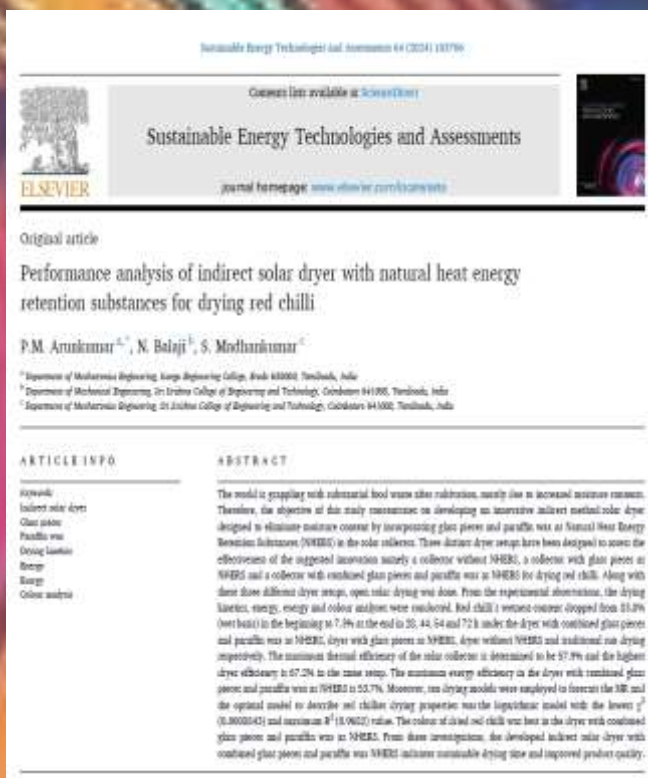
R&D | JOURNAL PUBLICATION | MECH

Dr.P.Ashoka Varthanan, HoD,
Department of **Mechanical Engineering,** has published a research article titled **“Optimization of the Shot Peening Process Parameters to Improve the Flexural Strength of Heated 2024 Aluminium Alloy”** in the International Journal of Interactive Design and Manufacturing . It is indexed in Scopus.



R&D | JOURNAL PUBLICATION | MECH

Dr.N.Balaji, Professor, Department of **Mechanical Engineering,** has published a research article titled **“Performance Analysis of Indirect Solar Dryer with Natural Heat Energy Retention Substances for Drying Red Chilli”** in Sustainable Energy Technologies and Assessments. It is indexed in Scopus and SCI.

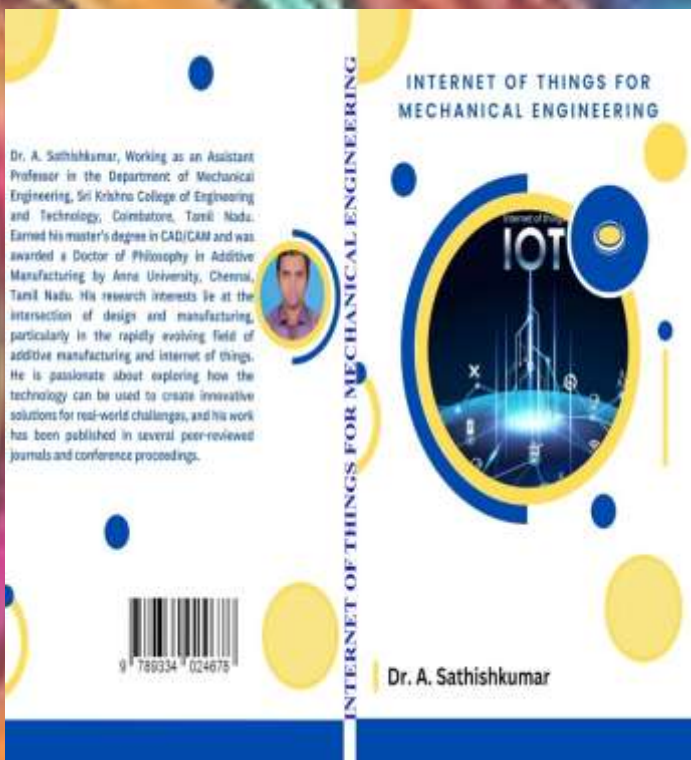


R&D | JOURNAL PUBLICATION | MECH

Dr.R.Jeyakumar, Associate Professor, Department of **Mechanical Engineering,** has published a research article titled **“Mechanical and Viscoelastic Properties of Nanoclay Filled Bamboo/Glass Fibre Reinforced Unsaturated Polyester Hybrid Composites”** in Materials Research. It is indexed in Scopus and SCI.



R&D | BOOK PUBLICATION | MECH



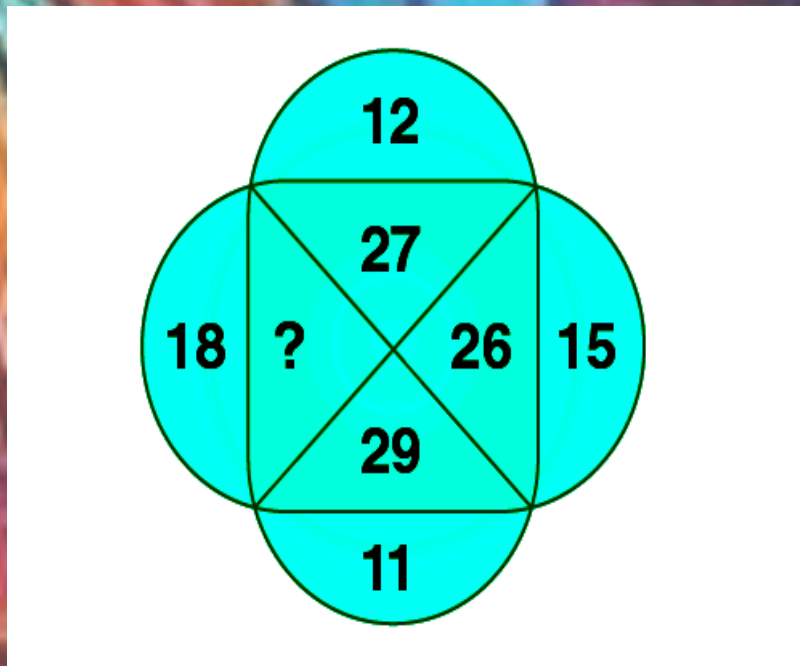
Dr.A.Sathishkumar, Assistant Professor, Department of **Mechanical Engineering,** has published a text book titled **“Internet of Things for Mechanical Engineering”** with ISBN 978-93-340-2467-8.

R&D | JOURNAL PUBLICATION | IT

Dr M Mohammed Mustafa, Associate Professor, IT has published a paper titled **“Determination of time location point and investigation of BSN using RATDMA and PATDMA”** in the Journal of Intelligent and fuzzy systems, a SCIE indexed journal listed in Annexure 1 of Anna University.



CAN YOU SOLVE ?



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FACULTY PROGRESSION



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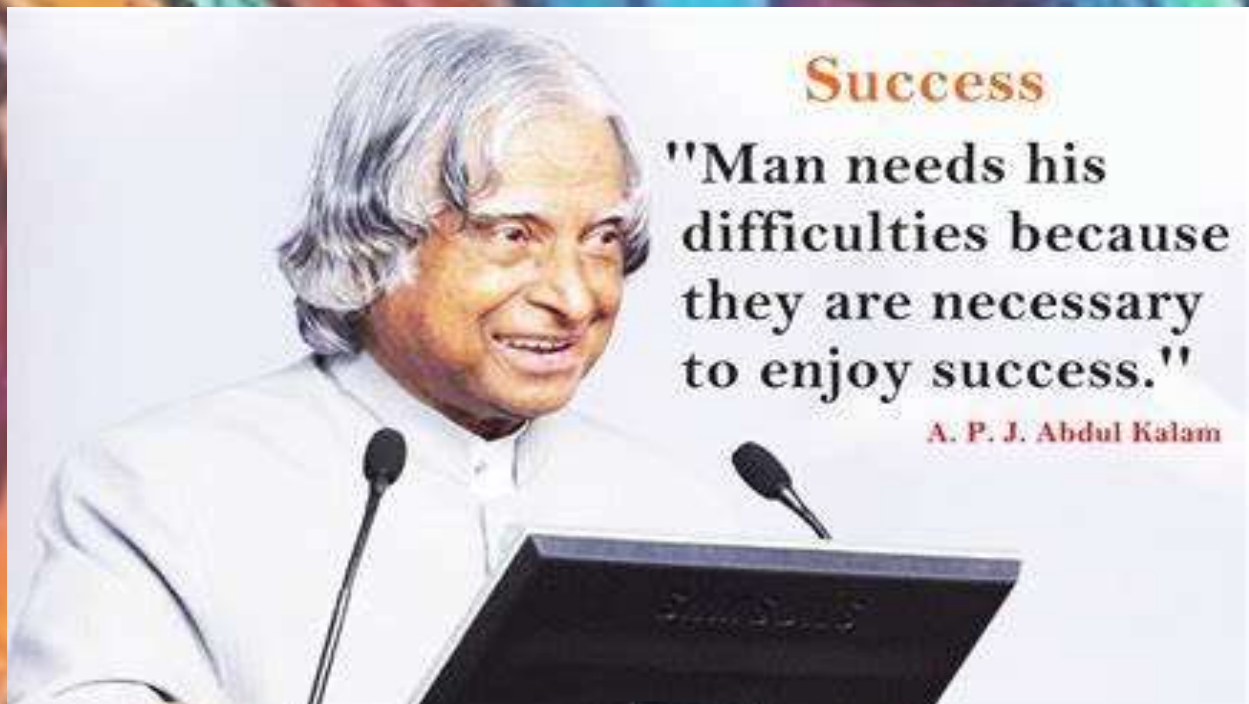
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ECE | IEEE FACULTY AWARD



IEEE Student Branch of SKCET (STB-61261) has been recognised with the Best IEEE Student Branch Counsellor Award for its student branch activities conducted during the year 2023. IEEE Madras Section chairman honoured **Dr.V.Nandalal**, Professor, ECE with Best IEEE Branch Counselor Award for his involvement towards IEEE student branch activities. The award ceremony was held at Le Meridien hotel, Chennai on 23.02.2024.

LEGENDARY INSIGHTS



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FACULTY CERTIFICATIONS



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EEE/ECE | FDP ON ELECTRIC VEHICLE SYSTEM-LEVEL MODELING AND SIMULATION USING MATLAB



Mr. S. Karthikeyan and **Ms. N. Kalaivani**, faculty members of **EEE** and **ECE** respectively have participated in a comprehensive Five-day ICT Faculty Development Program on '**Electric Vehicle System-Level Modeling and Simulation using MATLAB**' at PSG Institute of Technology and Applied Research in Coimbatore from 19.2.2024 to 23.02.2024.

Key Pointers:

- Introduction to Programming for Electric Vehicles
- Basic Vehicle Modeling Techniques
- Control of Direct Current (DC) Motors in EVs
- Brushless Direct Current (BLDC) Motor Control Methods.
- Permanent Magnet Synchronous Motor (PMSM) Control Strategies
- Effective Battery Management Systems for EVs
- Modeling Powertrains for Electric Vehicles
- Understanding Vehicle Dynamics in an Electric Context
- System Level Modeling of Electric Vehicles
- Familiarization with the Electric Vehicle Curriculum and Delivery Instructions.

EEE/ECE | FDP ON DIGITAL TWINNING OF MATERIAL PROCESSING TECHNOLOGIES



Dr.A.Radhika, Ms.N.Subhashini, Ms.G.Mahalakshmi, Ms.N.Subhalakshmi and Mr.R.Kavin, faculty members of EEE Department have participated in the AICTE Recognized Faculty Development Programme on “**Digital twinning of material processing technologies**” from 05-02-2024 to 09-02-2024 organized by NITTTR-Chandigarh.

EEE | COURSERA CERTIFICATION



Dr.J.Karthika, Associate Professor, **EEE** Department has successfully completed the course on “**Renewable Energy Technology Fundamentals**” certified by Coursera.

EEE | ICT FDP ON ELECTRIC VEHICLE SYSTEM

Mr.S.Karthikeyan, Assistant Professor, **EEE** has participated in Five Days Faculty Development Program on “**Electric Vehicle System-Level Modelling and Simulation using MATLAB & Simulink**” conducted by ICT Academy on 19.02.2024 to 23.02.2024 at PSG Institute of Technology and Applied Research.



MCT| FDP ON CYBER SECURITY: ANALYTICS TOOLS, USE CASES AND DEMO



Dr.D.Pritima, Dr.K.Ananthi, Ms.S.Nithyapriya and Ms.S.Kannaki faculty members of MCT have participated in the Five Days Faculty Development Program on “**Cyber Security: Analytics Tools, Use Cases and Demo**”, in collaboration with Cyber Heals Infotech Pvt Ltd, Chennai held at Vellore Institute of Technology, Chennai from 12th February – 16th February 2024.

MCT| FDP ON DIGITAL TWINNING OF MATERIAL PROCESSING TECHNOLOGIES



Dr.D.Pritima and Dr. L. Feroz Ali, faculty members of MCT have participated in the AICTE Recognized Faculty Development Programme on “Digital Twinning of Material Processing Technologies” conducted by Mechanical Engineering Department of NITTTR Chandigarh from 05.02.2024 to 09.02.2024.

MCT| NATIONAL SEMINAR PARTICIPATION



Dr.S.Dinesh, Assistant Professor of MCT has participated in Science and Engineering (SERB) sponsored Five Days National Seminar on “Contemporary Technical Advancements in Green Energy Conservation for Sustainable Development” organized by the Department of Mechanical Engineering, Erode Sengunthar Engineering College, Perundurai, Erode from 12-02-2024 to 16-02-2024.

MCT | FDP ON GLOBAL CONVERSATIONS IN MECHANICAL ENGINEERING

Dr.R.Gopinathan, Associate Professor of MCT has participated in the 5 Days International Virtual FDP on “**Global Conversations in Mechanical Engineering: Bridging Innovation and Sustainability**” from 19th to 23rd February 2024, organized by the Department of Mechanical Engineering, Madanapalle Institute of Technology & Science, Andhra Pradesh, India.



AI&DS | MSME-BOOTCAMP



Mr.A.Wasim Raja and Mr.G.S.Pugalendhi, Assistant Professors of AI&DS has successfully completed 7 days free Bootcamp on “**Deep Learning and Deployment on Web**” offered by GIET University and AWS –Devtown.

ECE | FDP ON ELECTRIC VEHICLE SYSTEM- LEVEL MODELLING AND SIMULATION USING MATLAB & SIMULINK

Ms N Kalaivani, Associate Professor, Department of ECE has attended one week Faculty Development Program on **Electric Vehicle system- Level Modelling and Simulation using MATLAB & Simulink** , conducted by ICT Academy held from 19.02.2024 to 23.02.2024 at PSG Institute of Technology and Applied Research.



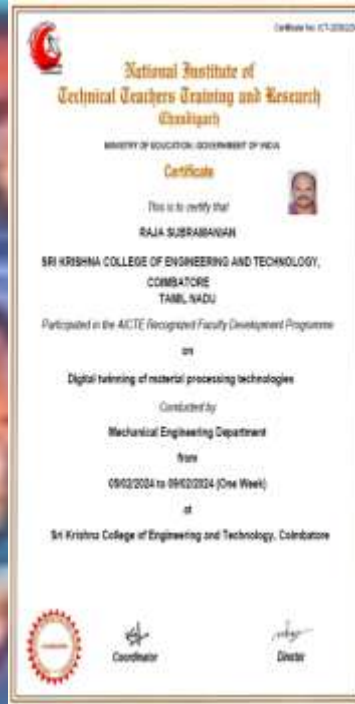
AI&DS | FACULTY CERTIFICATION



Mr.Senthil Kumar S , Mr.Balaji K, Assistant Professor, AI&DS has successfully completed 7 days free Bootcamp on “**Deep Learning and Deployment on Web**” by AWS Community Builders.

MECH | FDP ON DIGITAL TWINING OF MATERIAL PROCESSING TECHNOLOGIES

Dr.K.P.Yuvaraj and Dr.S.Raja, Associate Professors, Mechanical Engineering Department have participated and successfully completed one week Virtual Faculty Development Program on “Digital Twining of Material Processing Technologies” from 05. 02. 2024 to 09. 02. 2024 organized by the Department of Mechanical Engineering, NITTTR, Chandigarh.



AI&DS | FDP ON AI/ML & DATA SCIENCE FOR INDUSTRY 4.0



Ms.Kiruba B, Assistant Professor, AI&DS has participated in the AICTE recognized FDP on AI/ML and Data Science for Industry 4.0(Intermediate Level) conducted by Computer Science and Engineering Department from 29.01.2024 to 02.02.2024 at NITTTR, Chandigarh.

AI&DS | MICROSOFT CERTIFICATION



Mr.K.Balaji, Assistant Professor,
AI&DS has successfully
completed “**Fundamentals of
Machine Learning**” by Microsoft
on February 23, 2024.

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CIVIL | PAPER PRESENTATION



The **Second** and **Third** year students of **Civil Engineering** Department presented their research papers in the 1st International Conference on “**Recent Advances in Infrastructure Development (RAID 2024)**” organized by the Department of Civil Engineering, National Institute of Technology, Calicut on 12th and 13th February 2024.

CIVIL | PAPER PRESENTATION



S. No	Name of the Students	Paper Title	Mentor
1.	Dharanipriya R V Sahil M	Intelligent transportation system using automated traffic signaling	Dr. R. Chandra Devi
2.	Indra Priya Dharsini E Sri Dhanyaa R	Damage detection in bridges using artificial intelligence and machine learning method	Dr. R. Chandra Devi
3.	Navin Kishore K Gunanandhini R Pooja R Rijul S	Stabilization of expansive soil using bamboo and natural fiber reinforcement	Dr. R. Chandra Devi
4.	Sowmiya P R Tarunya Shree S Rufus Boban	Experimental thermal characterization of earthen flooring systems with hemp fiber in different configurations	Mr. A. Jesudass
5.	Nishanthini R, Vidhyasri S U	Development of low-carbon earthen flooring tile and its strength, durability and thermal characterization by incorporating natural fiber	Mr. A. Jesudass
6.	Priyanga S Sri Kaviya S Sujitha M	Development of hemp fibre-reinforced earthen block and its experimental thermal characterizations	Mr. A. Jesudass

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CSBS | ALUMNI RECOGNITION



SKCET ICON AWARD

Ms. Nivethini G S
2019-2023 Batch
Junior Engineer,
Astrazenaca



OUTSTANDING CONTRIBUTOR AWARD

Mr. Siva Shankar R
2018-2022 Batch
PG Scholar, MBA,
Indian School of Science and
Management,
Chennai



Office Bearer – Coimbatore Chapter

Mr.R.Santhosh
2019-2023 Batch
Director
La VINCITA LIFESCIENCES
PVT.LTD
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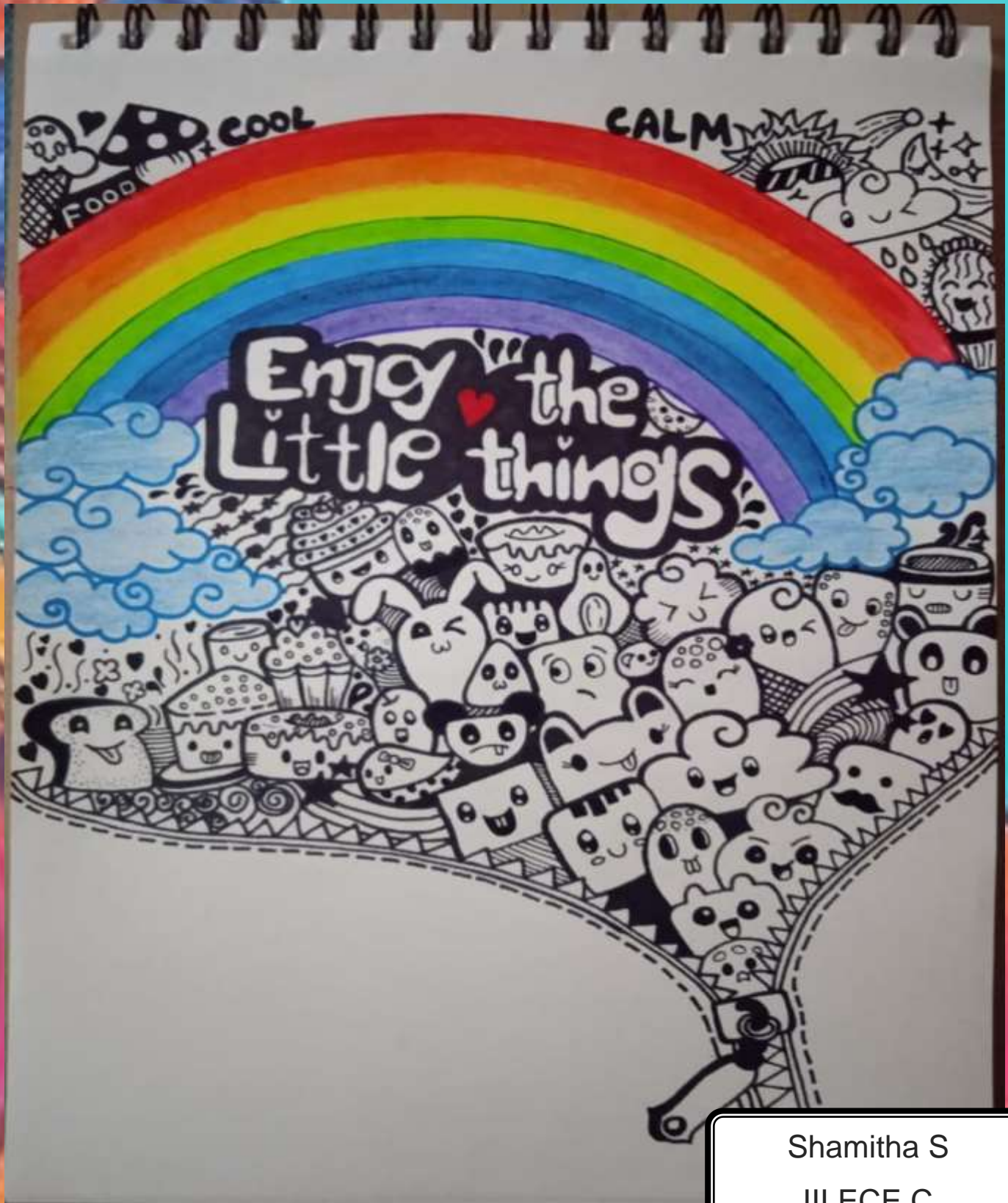


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CSBS | ART



Shamitha S
III ECE C

ECE | THE FUTURE OF SPACEWALKING: MIT AND DRAPER'S INNOVATIVE SPACE BOOT

Space exploration has been a continuous endeavor for humanity. To address the challenges of spacewalks, researchers from the Massachusetts Institute of Technology (MIT) and the Charles Stark Draper Laboratory are developing a revolutionary space boot equipped with built-in sensors and haptic motors.



The innovative feature of the space boot is its use of haptic feedback, a technology that delivers tactile sensations to the wearer. The boot's haptic motors generate precise vibrations that simulate tactile sensations, allowing the wearer to feel the virtual environment mapped by the sensors.

The haptic feedback serves as a navigational aid, guiding the wearer's movements without requiring constant visual attention. For example, if an obstacle is detected ahead, the actuators in the corresponding area of the foot generate vibrations of increasing intensity, signaling the wearer to adjust their stride or direction. This dynamic feedback loop enables astronauts to traverse challenging terrain safely and efficiently.

In addition to navigation, the space boot's haptic feedback can be used for various other purposes. For instance, it can indicate the firmness of a surface, provide feedback on foot pressure distribution, or even warn of potential hazards, such as sharp rocks or unstable ground. Furthermore, the system can be customized to accommodate individual preferences and adapt to different mission requirements.

Suja S
III ECE-A