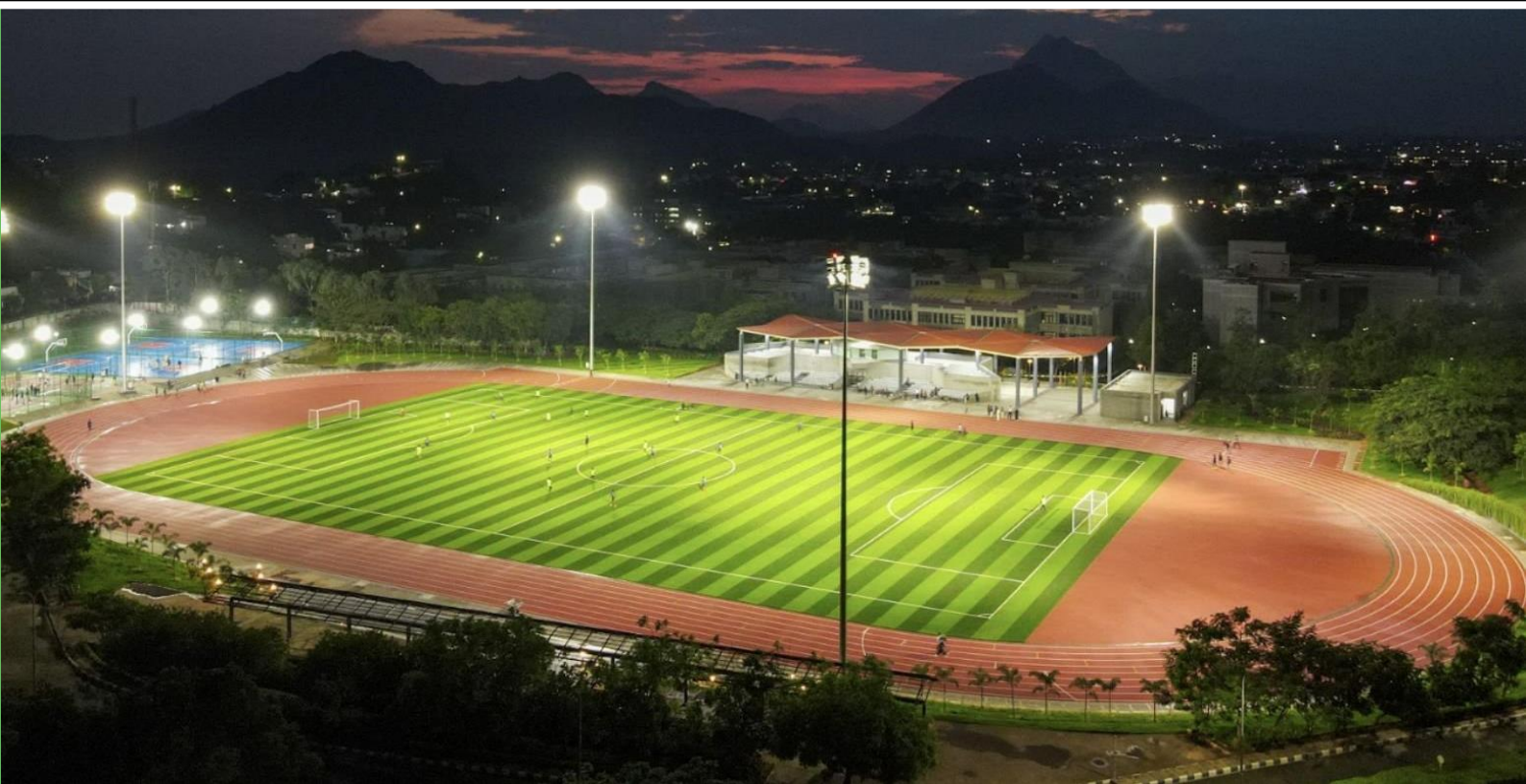


SKCET



29th June - 05th July 2024



Editor-in-Chief

Dr. K. Porkumaran
Principal

Co-Editor

Dr.S.Venkata Lakshmi - AI & DS

Editorial Team

Mr.J.Dhiyaneswaran - MECH

Mr.M.Diwakaran - IT,

Mr.G.S.Pugalendhi -AI & DS,

Mrs.S.Mary Fabiola - S&H



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INSTITUTIONAL EVENTS



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CSE | PRINCIPAL INTERACTION



Dr. K. Porkumaran, Principal interacted with the faculty members of **CSE** Department on 2.7.2024 and shared his valuable insights on : Varied benefits of association with IEEE Setting up Computer Science Society, Local group, Collaboration with top researchers and technology giants Startup challenge and internship initiatives for innovative ecosystem Creation of e-content and NPTEL - Domain specific certification, Industry MoUs and CoEs with industries Promoting Quantum computing-based research & activities Innovations in Teaching Learning Process - Innovation in Design, Delivery, Assessment, and Evaluation Global collaborations & ranking.

Dr.J.Granty Regina Elwin, Programme Coordinator expressed deep gratitude for enlightening the team and assured that the department would enthusiastically take up the proposed initiatives.

SKCET | CAREER GUIDANCE CELL



Career Guidance Cell of **SKCET** organized a Seminar on **Career Guidance** on 26.06.2024 for the **Final** year **Mechatronics** and **Mechanical** Engineering students.

Resource Person:

Ms. Naga Lakshmi & Ms.Preetha
Careerzone, Coimbatore.

Session Takeaways:

- Higher studies opportunities in foreign countries
- Selection of universities
- CGPA requirements
- Scholarship options
- IELTS, GRE, TOEFL and other requirements for various countries
- Application and visa process



HACKATHON ACCOLADES



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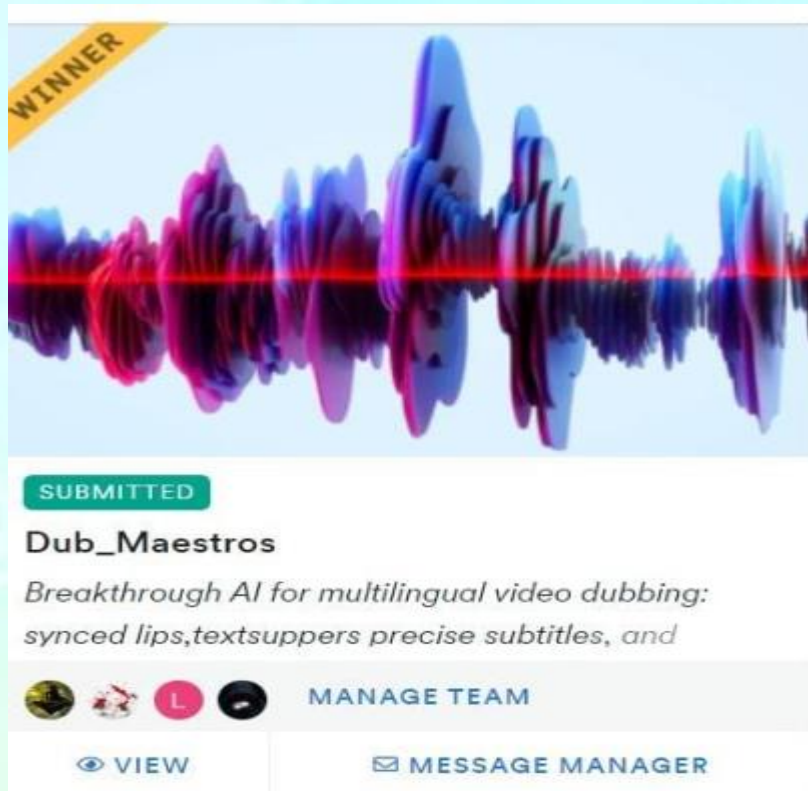


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CSE | AI FOR CHANGE - HACKATHON



Student team from the Department of **CSE** has won in "**AI for Change**" Hackathon organized by AI Launch Lab in Montreal, Quebec, Canada. The event was held online from June 28th to 30th, 2024. The team has won \$385 worth subscription of Wolframe Alpha pro (for each member in the team) for their success.

Project Title: Dub_Maestroes: Breaking Language Barriers with AI

Team Members:

- T. Praveen - IV CSE B
- Larwin J - II CSE B
- Lakshmi Priya S - II CSE B
- Kruthagnya R - II CSE B

Mentor:

Ms. A. Priya, AP, CSE



STUDENTS PROGRESSION



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MCT | INTERNSHIP @ IIT



A. Benjamin, student of **Final** year **MCT** has been selected for a Three Week internship programme titled Hands-on training for CMOS Foudry at IIT, Hyderabad from 24th June to 12th July, 2024. Upon successful completion of the training, he will be attending the **Advanced Training at TAIWAN/USA**. He is one among the 40 participants shortlisted from India after one-month joint Workshop on Semiconductor Manufacturing conducted by Experts from USA/Taiwan conducted during June/July 2024.

EEE | NAAN MUDHALVAN - NIRAL THIRUVIZHA HACKATHON



Students team from 2024 batch **EEE** Department presented their innovative project in the **Naan Mudhalvan - Niral Thiruvizha, Hackathon 2024** Final Review, held at Government College of Technology, Coimbatore on 28.06.2024. This hackathon showcased 924 projects addressing critical challenges faced by TamilNadu Government Departments, Industries, and Private sectors. The students' project was evaluated by a distinguished panel of Anna University Professors, Directors of various Centers of Excellence, and Subject Experts. The team received a grant of **Rs. 10,000/-** to further refine and enhance their innovative solutions.

Theme: Renewable & Sustainable Energy

Project Title: Efficient OBEO MPPT Controller for PV under Dynamic and Partial Shading Conditions

Team Members: Baranikumaran K, Hemadharshini S, Kavithra R, Kiruthik M

CSBS| INLINE HOCKEY CHAMPIONSHIP



Poornisha.B, student of **Second year Computer Science and Business Systems** has won **First Place** in the **Inline Hockey Federation Cup 2024** and has secured **Overall First Place** held at Jodhpur, Rajasthan from 25.06.2024 to 27.06.2024

She was appreciated by **Mr.Udhayanidhi Stalin, Minister of Youth Welfare and Sports Development of Tamil Nadu** and received a cheque of **Rs.2.45 lakhs** towards the expenses for participating in the **World Skate Games Italia 2024** to be held from 6th to 20th September 2024.

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EVENTS



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MCT| HOD INTERACTION



Dr. M. Lydia, HoD, MCT addressed the **Final** year students of MCT on 24.06.2024. The students were motivated to attend the regular and placement classes seriously. They were instructed to prioritize and wholeheartedly attend all the placement related tests and placement drives and were also advised to work consistently with high level commitment for a bright future.

CIVIL | EXPERT LECTURE



Civil Engineering Department organized CEA Inauguration of Activities cum Expert Lecture on “Luxurious Interior Design” for Civil Engineering students on 25.06.2024. The resource person for the event was Ar. J. Kavi Dhanjan, Mohan and Monz Interior Designers, Pumo Technovation, Coimbatore.

Training Takeaways:

- Importance of Interior Designs
- Key elements of Luxurious Interior designs
- Colour palette, Materials, Textures, Furniture and lighting used in interior design
- Recent Project Portfolios

MCT | NAAN MUDHALVAN - NIRAL THIRUVIZHA 2024



Students of **Mechatronics Engineering** Department (Batch 2020-24) have attended **TNSDC Naan Mudhalvan - Niral Thiruvizha 2024** Grand Final Review and presented their project work today to the expert committee.

Venue: Government College of Technology, Coimbatore

Date 27.06.2024

Theme: Waste Management

Project Title: Multipurpose 3D printer with Utilization of non-biodegradable waste

Team Members:

1. Sooraj S
2. Vijith R

Mentor: Mrs.S.Kannaki, AP/MCT

MCT | NAAN MUDHALVAN - NIRAL THIRUVIZHA 2024



Students of **Mechatronics Engineering** Department (Batch 2020-24) attended **TNSDC Naan Mudhalvan - Niral Thiruvizha 2024**, Grand Final Review and showcased their idea on 28.06.2024 with prototype to the expert committee.

Venue: Government College of Technology, Coimbatore

Theme: Agritech and Food Technology

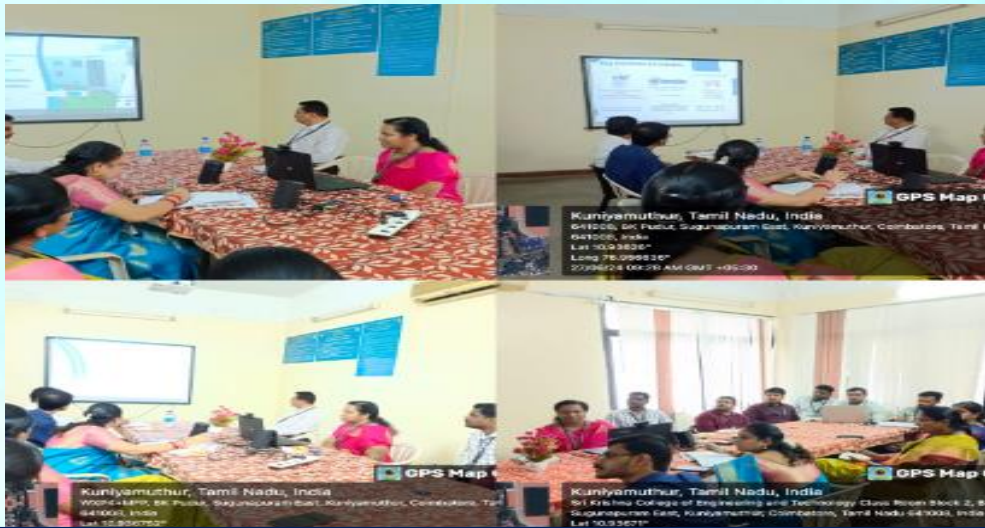
Project Title: Smart Feed Check Tray for Shrimp Farming

Team Members:

1. Poorva santhiya S 20EUMT053
2. Yogapraveen K 20EUMT089
3. Stanely G 21EUMT516

Mentor: Dr.J.Indirapriyadarshini, AP/MCT

MCT | PROGRAMME EVALUATION COMMITTEE



Department of **Mechatronics Engineering** organized Programme Evaluation Committee meeting on 27.6.2024. Department progression, results and PO attainments were presented to the members.

The following members along with Department faculty members attended the meeting and shared their insightful recommendations and suggestions.

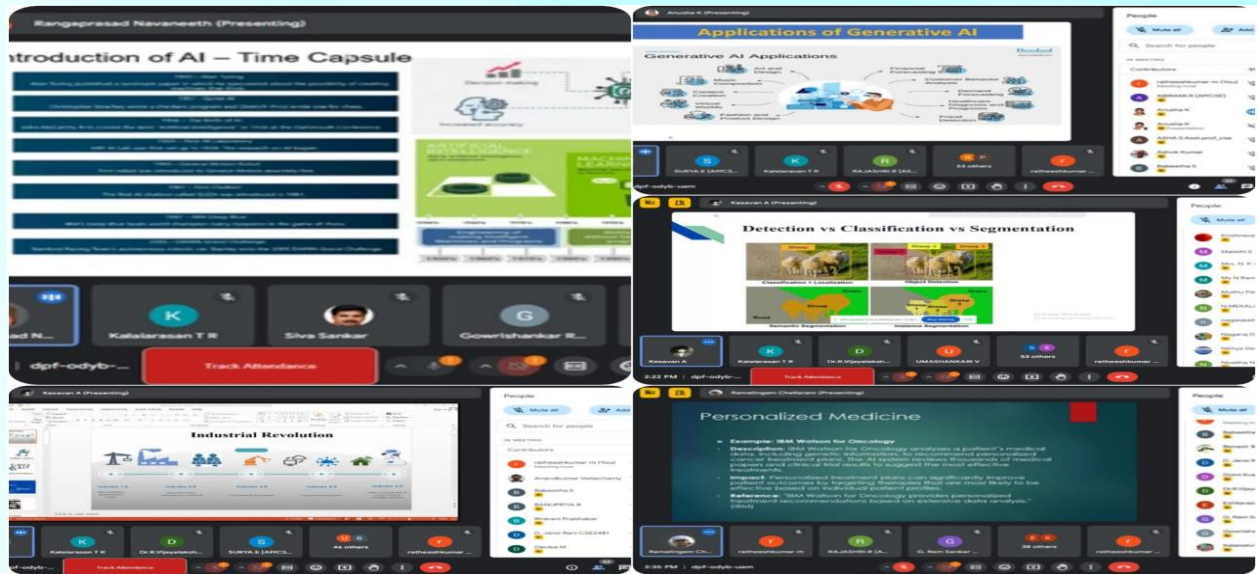
Experts Committee:

Academic Expert - External	Industrial Expert	Alumni
Dr. Santhakumar Mohan, Professor, Mechanical Engineering, Indian Institute of Technology - Palakkad.	Mr. Manicaraj, Director, MELZ Indcosys - Coimbatore.	Mr. Varun Vinayek, Packaged App Development Analyst - SAP BASIS Consultant Accenture Solutions Private Limited (2016-2020 Batch)

The Chairman presented the following,

<ul style="list-style-type: none"> • Institute's Accolades • Department's vision and mission • Best practices • Professional societies • Faculty and student details • Curriculum highlights 	<ul style="list-style-type: none"> • Key achievements • Events organized • Industry connections • R&D details • Infrastructure facilities.
--	---

IT | FACULTY DEVELOPMENT PROGRAM



Department of IT organized a Two Days FDP on “**Global race for AI Dominance**” on 27.6.2024 and 28.6.2024.

Day 1:

Session 1:

Topic: Impact of AI in Global context: An overview

Resource Person: Mr. Ranga Prasad Avireddy, Sr. Enterprise Architect, HCL America Inc.,Atlanta, USA.

Session 2:

Topic: Dominance of AI in Industry development

Resource Person: Mr. A. Kesavan, CEO & Founder, QuantanicsTechserv Ltd
Madurai.

Day 2

Session 1

Topic : Gen AI

Resource Person: Dr. K. Anusha,Associate Professor, School of Computer Science Engineering, Vellore Institute of technology, Chennai.

Session 2:

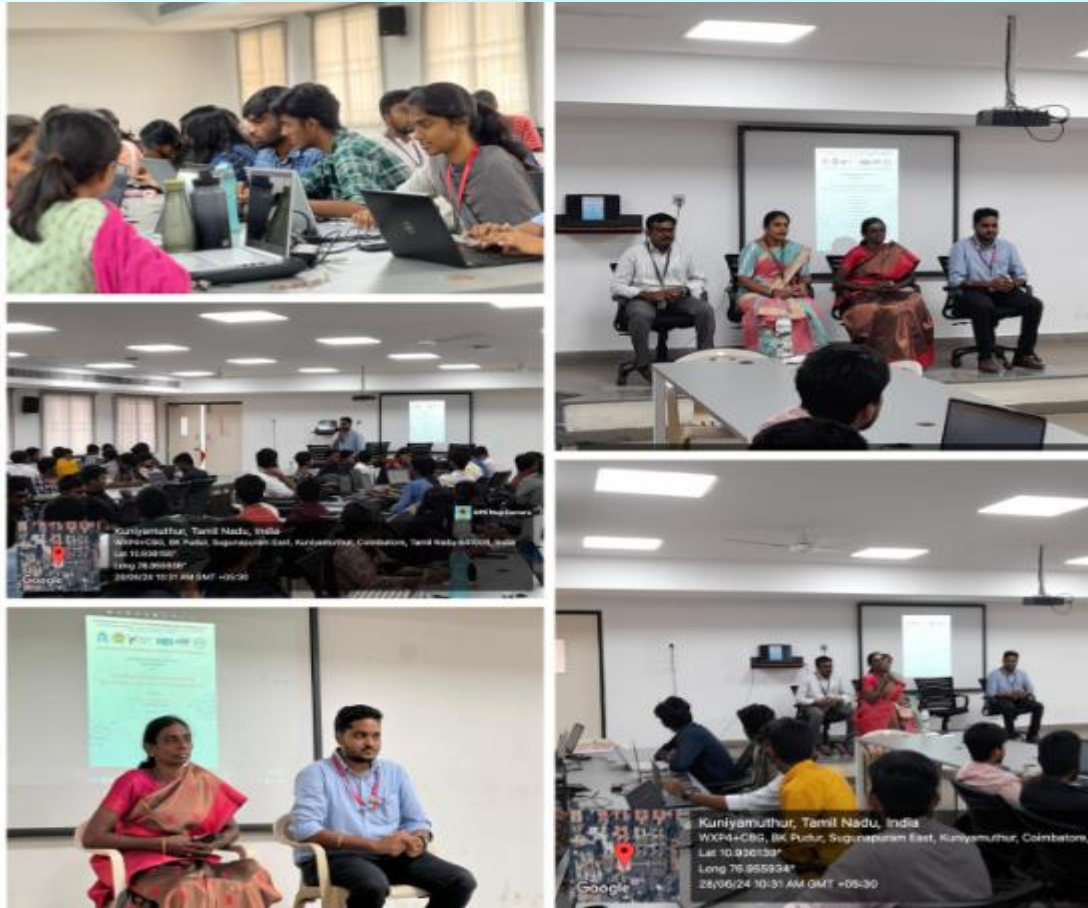
Topic : AI in Health care

Resource Person: Mr. Ramalingam Chellaram, Senior Engineer, Oracle Corporation, Dublin, Ireland.

Session Takeaways:

Dominance of AI in Healthcare, Diagnostic Tools, Personalized Medicine, Data Collection and Training & Challenges and Ethical Considerations

CSE | GUEST LECTURE ON DEEP DIVE INTO MACHINE LEARNING: ALGORITHMS & IT'S REAL TIME APPLICATIONS



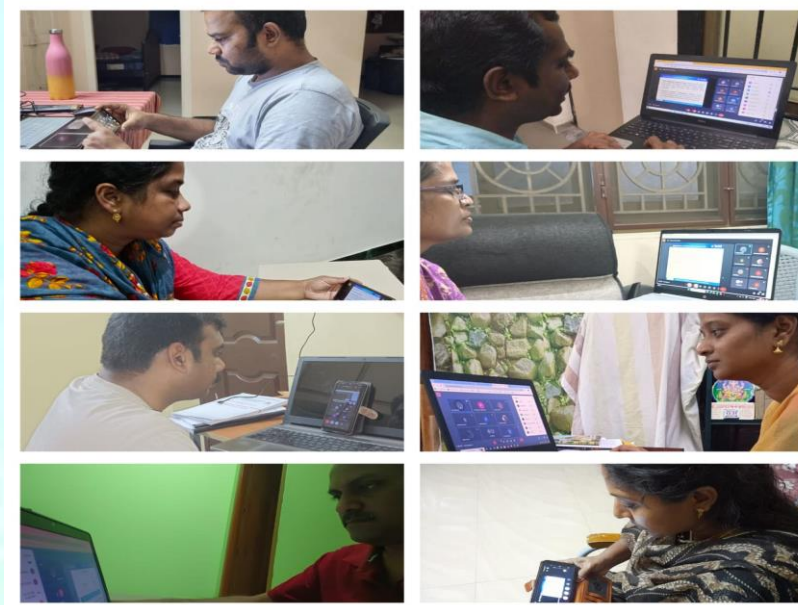
Department of **Computer Science and Engineering** organised a Guest Lecture on “**Deep Dive into Machine Learning: Algorithms & it's real time applications**” on 28.06.2024.

Resource Person: Mr.Meinathan, Software Developer, Accent Techno Soft.

Session Takeaways:

- Collection of datasets from Kaggle
- Utilization of python packages like numpy, scikit-l
- Graphical representation of dataset using MathPlotLib
- Understanding Jupiter package in data visualization

EEE | WEBINAR ON POWER ELECTRONICS



Faculty members of **EEE** Department attended a webinar on “**Power Electronics: Driving Efficiency and Innovation in everyday Devices**” organized by IEEE Madras Section, **IEEE Power Electronics Society**, Madras Chapter of Panimalar Engineering College and Panimalar Institute of Technology on 30-06-2024.

Resource Person:

Mr.Sivaprasad, IEEE Senior Member, Associate Professor, Sri Sairam Engineering College, Chennai.

Session Take Aways:

- Power Electronics Devices and it's design for reliability fault tolerance.
- Characteristics of resonance converter and soft switching techniques.
- Applications in Modern Industrial Drives and Renewable Energy Systems.
- Recent Advances in wireless Electric Charging Technology.

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**TUTOR WARD
MEETING**



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IT| TUTOR WARD MEETING



Dr.S.Deepa Kanmani, Dr.S.Shobana and Ms.S.Malathi, faculty members of IT Department conducted **Tutor Ward Meeting** for the **Final** year students of Information Technology on 03.07.2024.

Pointers of Discussion:

- Placement Drive Preparation
- Face Training
- Daily Aptitude Assessment
- Problem of the Day
- Attendance and syllabus coverage of all the subjects.



PLACEMENT AND TRAINING



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EEE | TESTIMONIAL BY PLACED STUDENTS

I am Athi Kesavan K, student of EEE Department. I am writing this testimonial to express my heartfelt gratitude to my college for the unwavering support and numerous opportunities provided for campus placements. As a final year student of the Electrical and Electronics Engineering department of batch 2021 - 2025, I am thrilled to share that I have been offered as a project trainee from a leading company 'ZOHO', thanks to the robust training and guidance I received through our college. I am grateful to my respective Head of the Department, my tutors Ms. T. Malini and Mr. R. Kavinand all the faculty members of our department. Their mentorship, combined with the rigorous academic curriculum, honed my technical skills and prepared me thoroughly for the challenges ahead. I am deeply grateful to the SKCET family for fostering an environment of growth and learning. The skills and knowledge I have acquired here will undoubtedly serve as the cornerstone of my professional journey. Thank you all for your guidance and for helping me achieve this significant milestone in my career.



Athi Kesavan K
EEE
ZOHO – Project
Trainee

SKCET | PLACEMENT TESTIMONIAL

I am Nafis Roshan N, Mechanical Engineering graduate from the batch of 2024. My time at SKCET has been instrumental in honing my academic and non-academic skills. The institution has provided unwavering support, fostering an environment for learning and growth. Through rigorous coursework and practical exposure, I have gained expertise in areas such as IoT, CAD, and hands-on application of theoretical concepts. Overall, SKCET nurtures an environment ideal for a rewarding educational journey. My sincere appreciation goes to the placement cell for their invaluable guidance, leading to my placement at JSW. I am deeply grateful to my parents, friends, SKCET management, Principal and the entire SKCET community for providing me with this enriching opportunity.

NAFIS ROSHAN N
MECH
JSW



SKCET | PLACEMENT TESTIMONIALS

SKCET is a beacon of academic excellence, where students are nurtured to reach their full potential. I would like to express my sincere and heartfelt thanks to our faculty members for sharing their knowledge with us day-in and day-out and creating true passion for Engineering. They went much beyond their way to mold us as an industry acceptable professional. It is through their coaching and guidance I managed to crack the interview and could find a placement in TCS.

I would also like to extend my regards and thanks to our college placement cell, for supporting and providing us opportunities to learn interview skills, communication skills and guiding us in placements. I am grateful to the faculty members and placement officers who provided me with unwavering support and guidance throughout my academic journey. This has morally boosted me and given immense confidence to kick start my career. I am sure the knowledge I gained from them will support me forever.

KEERTHANA K A
EEE
TCS





RESEARCH AND DEVELOPMENT



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R&D | DESIGN PATENT | MCT



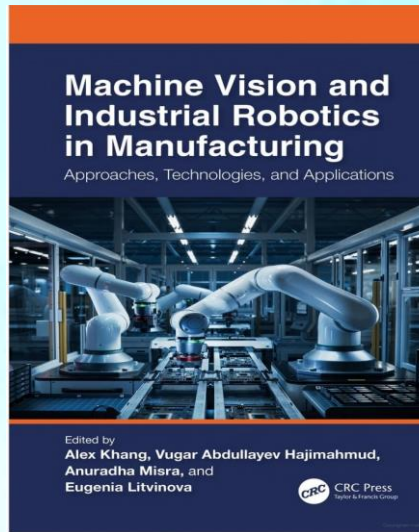
Dr. S. Madhankumar, Assistant Professor of Mechatronics Engineering has filed a design patent on “Automatic Fuel Dispenser” along with Sathyamoorthy, R. Tharun, M. Preethiviraj and, Balamurugan R students of MCT.

R&D | DESIGN PATENT | IT

Dr.V Anandkumar, Professor, IT has published a patent titled “Machine Learning Based Network Security Device” certified by The Patent Office, Government of India.



R&D | BOOK CHAPTER | EEE



20 Analysis of Internet of Things-Integrated Technology in a Smart Factory

Curvinder Singh, Priya L. Kumar P., Karthika J., Saikumar Tara, and Nidhya M. S.

20.1 INTRODUCTION

Industry 4.0, frequently known as the fourth modern, depends on smart production lines to increase yield per laborer and reduce cost. The Internet of Things (IIoT), artificial intelligence (AI), and robots are instances of state-of-the-art innovation that are being integrated into customary assembling processes as a feature of Industry 4.0 (Vijayaraghavan & Leevinson, 2019). To help production and effectiveness, smart plants utilize computerized innovations such as IIoT, AI, and robots (Garrido-Hidalgo et al., 2019; Anden et al., 2021).

Industry 4.0's smart factories have networked machinery and tools that can share data in real-time and with a centralized control system (Chen et al., 2017). As a result, production facilities may optimize their methods, reduce pollution, and boost adaptability in the face of rapidly changing consumer preferences. As of late, the IIoT has been used in smart factories to work with advanced production and assist organizations with running more successfully, efficiently, and economically (Wang et al., 2016). The IIoT is a basic innovation empowering the ascent of smart factories (Zhang et al., 2017). For Industry 4.0 to be fully realized, it is necessary to overcome a number of obstacles. Investment in cutting-edge facilities and machinery is a must for a successful Industry 4.0 rollout. This may prove to be quite a challenge for smaller companies or those with less resources. Industry 4.0 requires a skilled labor force familiar with digital tools (De Silva et al., 2020).

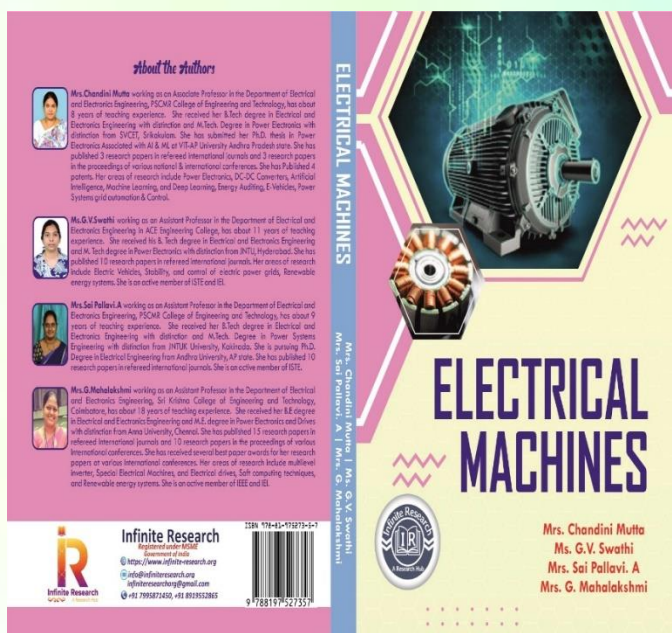
In the age of the smart manufacturing plant and Industry 4.0, sensors are utilized to monitor and record all circumstances and create process boundaries, such as temperature (Khalooski et al., 2020). In smart plants, IIoT sensors can likewise be utilized to track all that data from contributions to yields (Paiel et al., 2018). This gives producers quick input on production viability and quality, engaging them to pursue information-driven decisions that improve tasks and outcome (Manuvelan & Jayakrishna, 2019). The IIoT enables preventive maintenance to be undertaken before equipment faults occur by detecting and predicting when machines will need repair (Daiachos et al., 2020).

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DOI: 10.1201/9781003438137-20

Dr. J. Karthika, Professor, EEE Department, has published a book chapter entitled “Analysis of Internet of Things-Integrated Technology in a Smart Factory” in Machine Vision and Industrial Robotics In Manufacturing, Approaches, Technologies and Applications Book Volume with ISBN:9781003438137 published by CRC Press, Taylor & Francis Group.

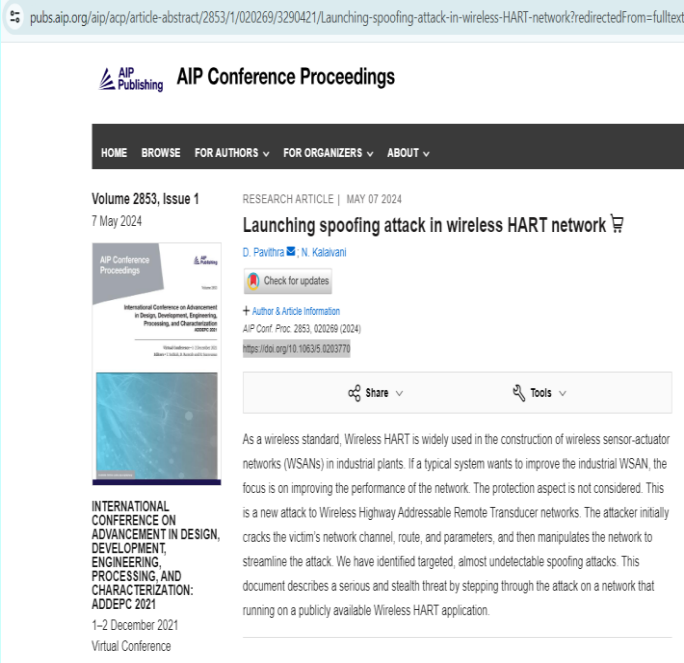
R&D | BOOK CHAPTER | EEE



Mrs.G.Mahalakshmi, Assistant Professor, EEE Department, has published a book entitled “Electrical Machines” on June 2024 with ISBN Number:978-81-975273-5-7 by Infinite Research Publications.

R&D | PAPER PUBLICATION | ECE

Ms.N.Kalaivani, Associate Professor, Department of **ECE** has presented and published her conference paper **“Launching Spoofing Attack in Wireless HART Network”** in the International Conference on Advancement in Design, Development, Engineering, Processing, and Characterization. It is a Scopus Indexed Conference.



LEGENDARY INSIGHTS



"Ask the right questions, and nature will open the doors to her secrets."

~C. V. Raman



FACULTY PROGRESSION



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EEE/ECE | NASSCOM FACULTY TRAINING PROGRAMME



Following faculty members from the department of **EEE** and **ECE** have attended the **10 days Faculty Training Programme** on 'Embedded Systems' from 21-06-2024 to 30-06-2024 powered by **NASSCOM** at **Sri Vishnu group of Institutions**, Telangana, India.

- Dr. K. Muthukumar, ASP/EEE
- Mr. V. V. Vineeth, AP/EEE
- Mr. R.Sarath Kumar, AP/ECE
- Mr.S.P.Karthi, AP/ECE.

EEE/ECE | NASSCOM FACULTY TRAINING PROGRAMME



The curriculum of the training program is framed in such a way to bridge the gap between academic institution and industry expectations.

Mr Roopesh, Automation lead, Wipro Technologies, who had a major role in framing the NASSCOM curriculum, addressed the participants.

Main focus of emphasis:

- Importance of embedded systems in current scenario
- Key requirements of embedded engineering in market
- Importance of designing software, hardware and device drivers
- Proper debugging and analyzing tools
- Planning and scheduling of embedded systems.

MCT | PHD CONVOCATION



Dr. S. Madhankumar, Assistant Professor of **Mechatronics Engineering** has successfully completed Ph.D Viva voice examination on 21.06.2024 and has received his Ph.D degree on 02.07.24.

CSBS| PHD CONVOCATION

Dr.F.Margret Sharmila, Assistant Professor, Department of **Computer Science and Business Systems** has received the degree of **Doctor of Philosophy** in Information and Communication Engineering from the honorable Governor at Anna University, Chennai on 03.07.2024.



SKCET | INFOSYS SPRINGBOARD FEP SERIES 3 - JAVA



Dr.V.K.Reshma, Associate Professor, **CSE** and **Ms. S. Malathi**, Assistant Professor, **IT** attended 5 days Infosys Springboard - Faculty Enablement Program(FEP) in JAVA Programming, It is an Infosys initiative to prepare faculty members with the latest teaching methods and use of technology to impart effective education.

Highlights

- Interesting facts about OOPs
- Exception handling
- Dynamic Binding
- Real Time Applications



FACULTY CERTIFICATIONS



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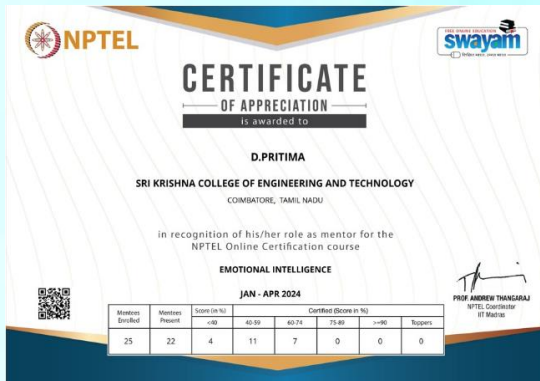


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MCT | NPTEL CERTIFICATION



Dr. D. Pritima, Dr. G. Veerappan, Dr. K. Ananthi, Dr. J. Indira priyadharshini, Dr. S. Dinesh and Mrs. S. Kannaki, faculty members of Mechatronics Engineering have received recognition for their role as mentor for NPTEL online certification course entitled “Emotional Intelligence” and “Human Behavior”.

EEE | FDP ON INNOVATIVE TEACHING AND LEARNING PEDAGOGY



Dr.J.Karthika, Professor, EEE Department has participated in Five Days Faculty Development Program on “Innovative Teaching and Learning Pedagogy” organized by Research Foundation of India & RFI-CARE, from 23-06-2024 to 27-06-2024.

AI&DS | NPTEL MENTOR CERTIFICATION

Mr.Senthil Kumar S, Assistant Professor of AI&DS has been recognized as a mentor for the course titled “Soft Skill Development” offered by NPTEL for Jan - Apr 2024.

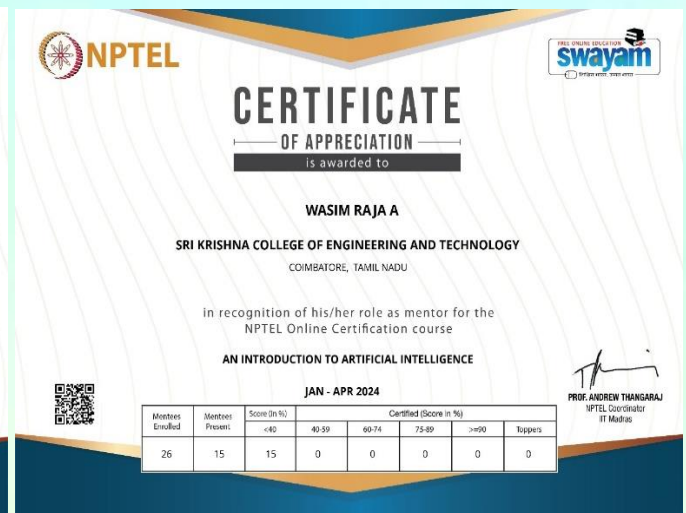
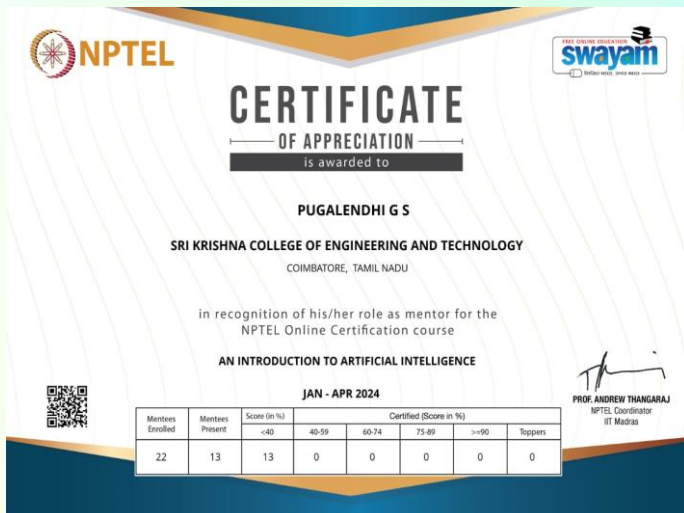


AI&DS | COURSERA CERTIFICATION

Mr.Senthil Kumar S, Assistant Professor of **AI&DS** has successfully completed a course titled **“Introduction to Healthcare”** offered by Coursera on 19.06.2024.



AI&DS | NPTEL MENTOR CERTIFICATION



Mr.Pugalendhi G S and Mr.Wasim Raja A, Assistant Professors of **AI&DS** have been recognized with a mentor certificate for the course titled **“An Introduction to Artificial Intelligence”** offered by **NPTEL** for Jan - Apr 2024.

CIVIL | NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

Dr. P. Saravanakumar, Professor, Department of **Civil Engineering** has completed the NEP 2020 Orientation and Sensitization Programme under the Malaviya Mission Teacher Training Programme (MMTTP) of the University Grants Commission (UGC) organized by the Coimbatore Institute of Technology from 22nd to 30th April 2024.



CIVIL | FDP PARTICIPATION



Mr. S. C. Boobalan, Assistant Professor, Department of **Civil Engineering** has completed a 5-day International FDP on “**Sustainable Construction Materials, Technologies and Practices (SCMTP-24)**” organized by Malla Reddy Engineering College, Hyderabad from 24th to 28th June 2024.

M.Tech CSE| INFOSYS CERTIFICATION

Mrs. Ram K Shivany, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has successfully completed an online course titled **“Introduction to Data Science”** on Infosys spring Board on 25.6.2024.



IT| INFOSYS SPRINGBOARD



Ms.R.Janani, Assistant Professor, **IT** has completed a course on **“Computational Theory: Language Principle & Finite Automata Theory”** on 25-06-2024 certified by Infosys.



ALUMNI CORNER



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ECE | ALUMNI INTERACTION



Mr. Prasanth Rozario, an Alumnus from Department of **Electronics and Communication Engineering** (2016-2020 batch) gave his valuable suggestions for bringing in more internship from **Presisdio Private Ltd.** He interacted with his tutors and mentors on 15.05.2024 and provided suggestions on upcoming trends and research areas, which could be incorporated in curriculum and syllabi.